

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: STREETWORKS

Report Number: P199276

Luminaire Tested: **XNV-AF-01-LED-U-T4W-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199276  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24127)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: XNV-AF-01-LED-U-T4W-8030-800  
Description: XNV ROADWAY AND AREA LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3940 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT

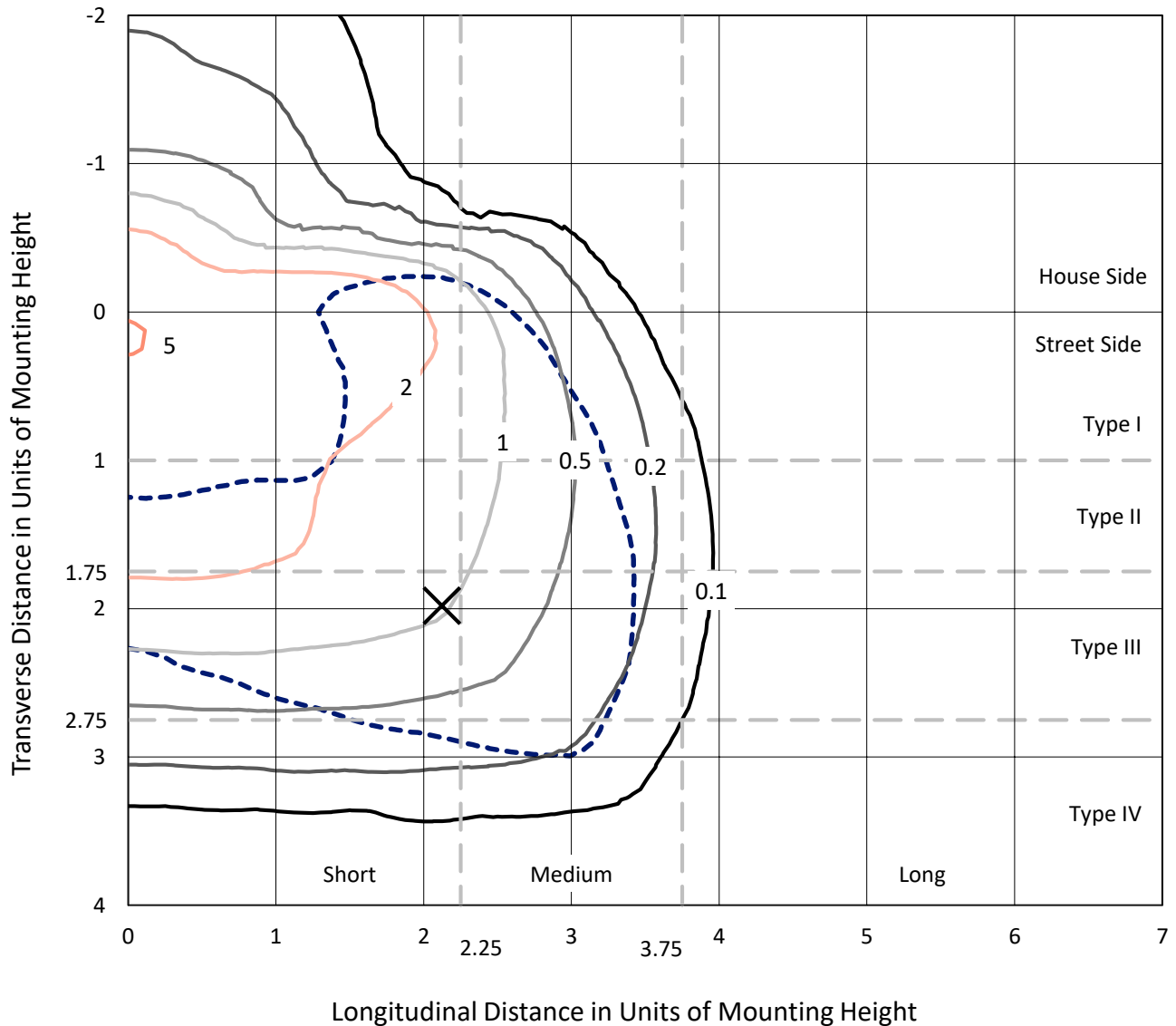


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

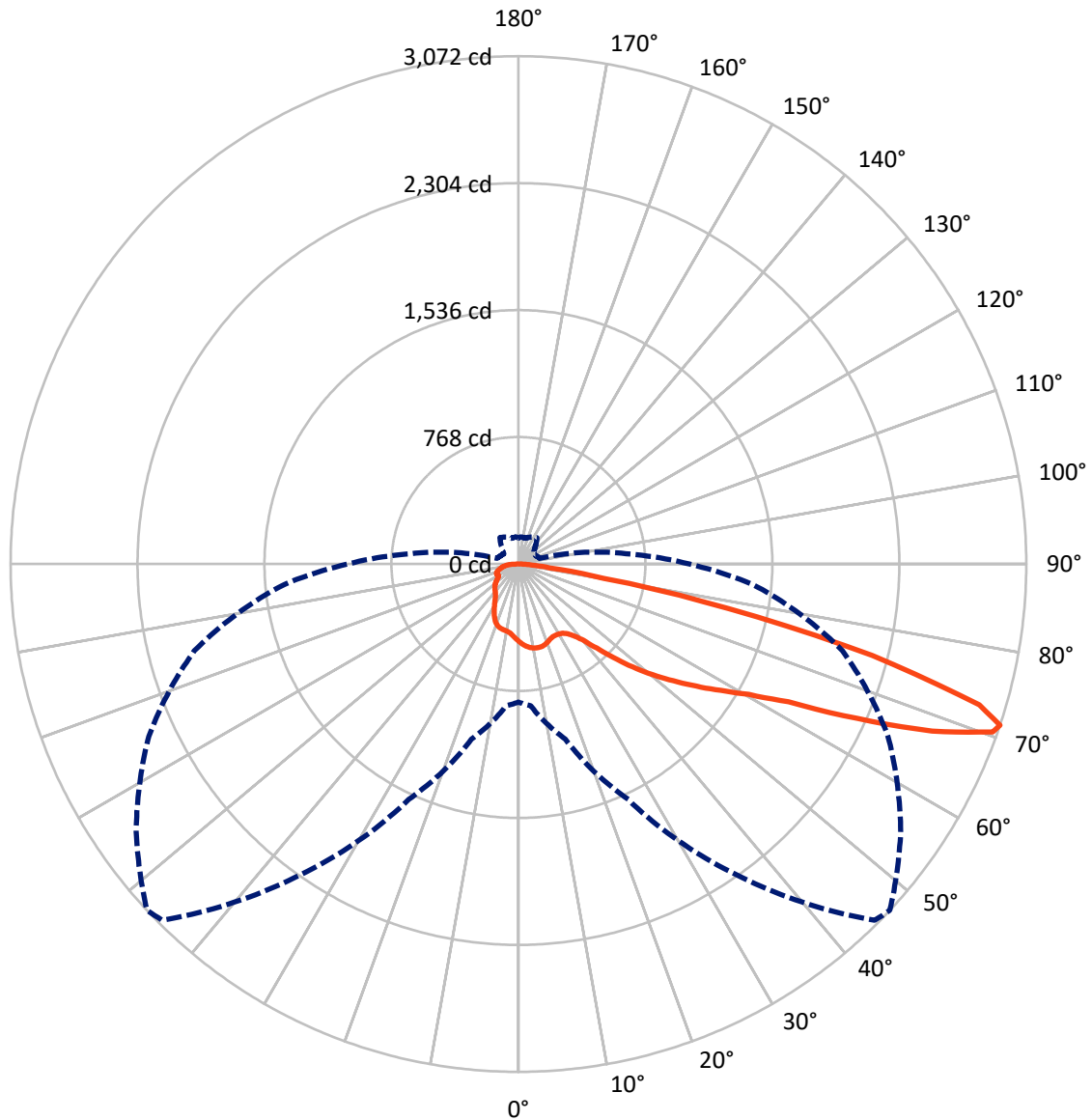


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical



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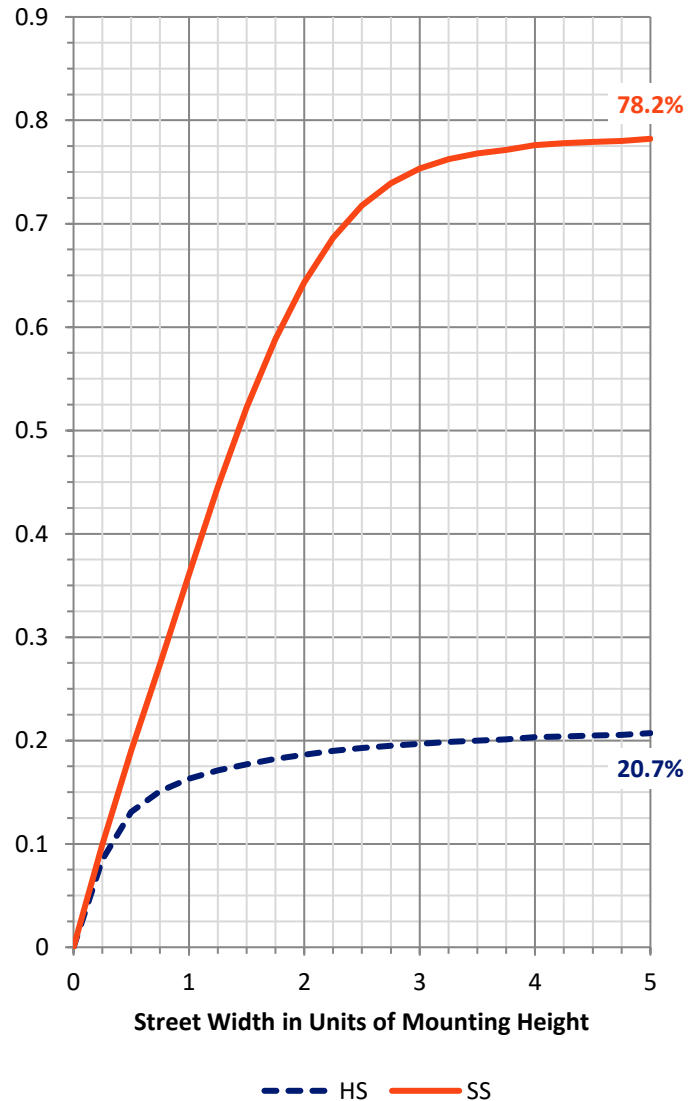
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	844.4	0.0	844.4
	% Fixture	21.4	0.0	21.4
<b>Street Side</b>	Lumens	3095.6	0.0	3095.6
	% Fixture	78.6	0.0	78.6
<b>Total</b>	Lumens	3940.0	0.0	3940.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	44.7	1.1
10°-20°	130.9	3.3
20°-30°	194.5	4.9
30°-40°	279.2	7.1
40°-50°	495.1	12.6
50°-60°	847.2	21.5
60°-70°	1202.7	30.5
70°-80°	658.7	16.7
80°-90°	87.0	2.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	3940.0	100.0
0°-180°	3940.0	100.0



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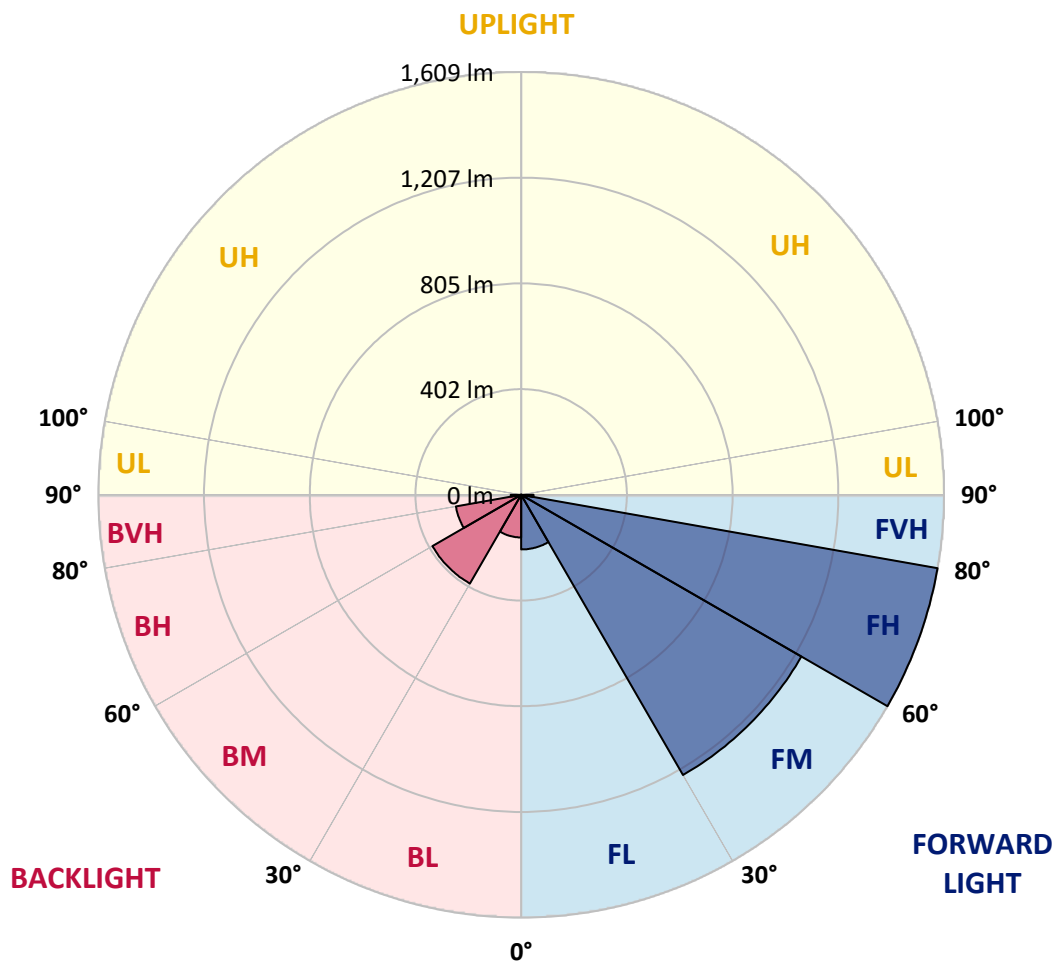
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.9	5.3			
FM	(30°-60°)	1231.4	31.3			
FH	(60°-80°)	1609.1	40.8			G1/1800
FVH	(80°-90°)	47.2	1.2			G1/100
BL	(0°-30°)	162.2	4.1	B1/500		
BM	(30°-60°)	390.2	9.9	B1/1000		
BH	(60°-80°)	252.3	6.4	B1/500		G1/500
BVH	(80°-90°)	39.8	1.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5
2.5°	497.1	496.1	496.6	494.8	490.5	485.9	485.9	481.0	475.9	470.8	465.2
5°	528.0	526.5	525.2	519.6	511.2	501.7	500.2	490.5	480.0	469.6	459.3
7.5°	553.8	552.3	548.5	538.2	526.0	511.9	510.2	497.4	483.6	469.0	454.7
10°	572.2	571.2	563.8	550.7	536.4	519.9	516.8	503.8	487.4	469.3	451.2
12.5°	582.4	580.9	571.9	556.6	539.8	522.9	519.9	507.3	488.7	468.8	447.6
15°	578.3	577.6	569.1	553.6	536.7	522.2	519.6	506.8	487.9	467.0	444.3
17.5°	561.0	562.7	556.1	540.8	527.0	516.8	514.0	502.0	484.1	462.7	439.2
20°	537.0	539.0	535.7	520.1	512.2	505.6	504.0	494.3	477.7	456.3	433.0
22.5°	511.4	513.2	513.5	498.9	496.4	493.8	492.5	485.6	472.1	452.4	429.0
25°	493.8	495.9	496.4	483.6	485.1	485.9	485.6	480.8	471.1	452.4	429.5
27.5°	489.2	490.2	489.7	478.0	480.8	485.1	485.4	484.4	475.2	457.6	436.6
30°	505.0	505.6	499.2	481.6	484.4	490.0	490.2	489.7	483.9	470.8	452.7
32.5°	573.5	573.0	551.0	505.6	495.9	497.9	498.7	503.3	503.8	492.8	475.9
35°	677.6	677.4	651.9	574.2	528.5	517.8	518.8	526.0	532.4	525.0	515.3
37.5°	792.3	793.1	777.5	672.3	599.0	554.3	553.3	558.7	570.2	572.7	574.0
40°	919.4	923.3	922.5	784.9	697.8	616.6	606.4	600.3	622.5	636.5	654.7
42.5°	1064.7	1063.7	1064.2	908.5	810.7	714.7	695.8	667.2	693.0	717.2	757.1
45°	1189.6	1193.7	1196.7	1040.0	937.1	826.8	807.6	755.5	778.8	815.0	875.8
47.5°	1315.2	1308.1	1313.7	1186.3	1077.8	954.7	929.9	859.7	881.4	932.5	1024.9
50°	1461.5	1458.2	1432.7	1377.3	1247.8	1084.4	1052.0	968.5	1000.1	1068.3	1209.0
52.5°	1592.8	1574.9	1555.0	1527.4	1415.0	1215.6	1174.5	1081.6	1139.8	1224.3	1437.5
55°	1640.8	1628.8	1652.8	1688.5	1592.0	1349.4	1303.5	1213.6	1297.3	1402.8	1706.4
57.5°	1691.8	1695.9	1750.0	1822.3	1759.5	1492.2	1442.4	1369.8	1470.2	1602.5	2006.9
60°	1717.4	1733.7	1841.7	1977.3	1918.8	1648.7	1600.9	1549.3	1661.9	1823.1	2306.7
62.5°	1721.7	1743.7	1896.6	2031.7	2138.1	1888.4	1833.3	1777.4	1901.4	2066.9	2523.7
65°	1642.0	1675.7	1891.7	2098.6	2338.1	2289.0	2254.1	2156.5	2222.1	2281.6	2560.7
67.5°	1407.9	1444.7	1704.6	2071.0	2498.4	2704.7	2698.1	2554.1	2469.8	2364.6	2286.2
70°	1033.3	1062.9	1312.7	1770.5	2428.5	3031.0	3042.8	2811.7	2539.0	2188.4	1700.0
71°	835.7	861.2	1096.6	1571.8	2292.1	3047.9	3072.4	2823.2	2467.0	2029.4	1423.2
72.5°	520.1	534.4	728.2	1186.3	1973.7	2874.3	2915.6	2676.1	2240.3	1715.3	1006.0
75°	196.3	202.0	270.1	523.2	1178.1	2159.3	2209.4	2022.5	1573.9	979.2	421.0
77.5°	105.5	108.3	134.0	217.5	472.1	1237.8	1302.2	1153.6	755.0	342.7	172.1
80°	70.7	72.5	92.7	128.9	217.0	471.3	525.0	463.2	282.7	195.6	122.6
82.5°	45.7	46.7	63.1	84.8	140.2	165.7	189.2	197.6	176.4	140.2	74.0
85°	30.1	30.9	41.6	54.1	86.8	81.7	83.7	109.5	120.3	92.4	37.8
87.5°	17.4	17.9	25.0	27.8	39.1	30.6	33.2	52.1	71.5	60.3	21.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5	468.5
2.5°	462.7	460.6	456.0	453.2	451.9	451.4	450.9	451.9	451.9	451.4	450.4
5°	454.2	450.4	442.7	437.4	434.6	433.8	434.8	436.1	436.9	436.9	436.1
7.5°	448.1	442.5	432.3	424.9	420.5	419.3	422.1	426.7	429.7	431.3	431.5
10°	443.0	435.3	424.1	416.4	412.9	412.4	415.9	421.8	428.2	431.0	431.5
12.5°	438.4	429.7	417.5	410.3	407.8	409.0	413.9	419.3	426.7	430.7	431.0
15°	434.1	425.1	412.1	404.7	404.2	406.2	410.8	415.2	420.8	425.9	425.9
17.5°	429.0	419.3	405.7	398.8	398.8	400.6	403.7	406.0	409.6	414.4	414.1
20°	422.8	412.9	399.1	391.9	390.4	389.4	389.4	389.9	393.0	397.3	398.1
22.5°	418.2	408.0	393.5	384.8	377.9	371.3	368.4	367.4	370.2	374.3	375.3
25°	418.2	408.0	391.7	377.1	360.3	347.5	342.1	340.6	343.4	347.2	348.8
27.5°	425.1	414.9	395.8	370.2	339.3	318.9	312.5	311.2	313.8	316.9	318.4
30°	441.2	431.3	407.5	362.3	316.1	289.3	282.1	280.9	282.1	283.4	285.2
32.5°	468.0	459.6	426.7	355.2	292.6	262.5	253.8	251.8	252.3	252.5	254.1
35°	511.7	507.9	452.2	346.7	270.4	240.5	231.6	227.5	227.2	228.5	230.3
37.5°	578.6	580.9	485.1	334.5	252.0	224.9	216.0	211.9	209.9	212.4	214.5
40°	673.1	678.4	523.2	317.9	236.9	215.8	206.3	202.5	199.7	198.9	199.9
42.5°	795.9	794.3	562.0	296.7	220.6	209.6	199.7	195.6	191.0	185.1	183.8
45°	941.4	919.4	594.4	270.7	202.0	203.8	193.5	187.9	180.8	172.1	171.1
47.5°	1113.2	1052.7	614.3	242.8	184.6	196.1	186.6	178.0	167.5	161.9	161.1
50°	1320.3	1208.7	628.4	214.5	169.0	186.4	176.9	165.5	155.2	153.7	153.5
52.5°	1565.4	1392.8	645.7	188.9	156.8	173.9	167.2	155.5	147.3	148.1	148.1
55°	1826.1	1583.3	646.2	168.8	146.0	159.3	160.1	150.6	144.3	146.8	147.6
57.5°	2063.8	1749.8	595.4	154.5	135.8	147.8	157.8	152.4	147.6	156.5	157.3
60°	2271.2	1878.0	486.1	142.7	127.4	143.5	162.9	163.4	162.4	186.6	188.4
62.5°	2347.0	1879.2	345.2	132.8	122.8	146.0	173.6	174.4	174.4	196.9	200.2
65°	2240.8	1722.7	229.8	126.9	119.8	151.7	182.3	179.0	171.1	186.6	183.1
67.5°	1866.5	1341.0	168.0	123.1	115.4	151.9	190.0	181.5	168.0	181.3	175.2
70°	1282.8	853.3	140.7	119.5	110.3	145.3	194.1	180.8	163.4	169.0	160.9
71°	1032.6	681.0	133.5	118.2	108.3	141.5	194.6	179.8	161.1	164.7	157.3
72.5°	680.2	419.5	124.9	115.4	105.2	134.8	193.3	177.5	158.0	158.3	153.5
75°	268.4	173.9	112.3	109.0	96.5	124.1	187.7	172.6	152.2	147.1	145.0
77.5°	135.6	113.6	98.8	100.1	86.3	113.1	179.8	164.7	144.0	137.1	135.6
80°	99.1	86.3	84.5	86.8	74.8	102.4	169.8	154.0	133.5	140.7	137.6
82.5°	60.3	52.6	66.1	71.7	62.6	91.4	158.0	141.5	120.3	110.8	107.2
85°	28.6	30.9	47.7	52.9	46.2	73.0	144.5	127.7	104.9	90.6	92.2
87.5°	14.0	17.1	27.3	31.7	30.4	53.6	109.0	99.1	82.7	68.2	66.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)