

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: P198954

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198954
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-7050-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3938 lumens
Efficiency: N/A
Efficacy: 115.8 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): 34
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

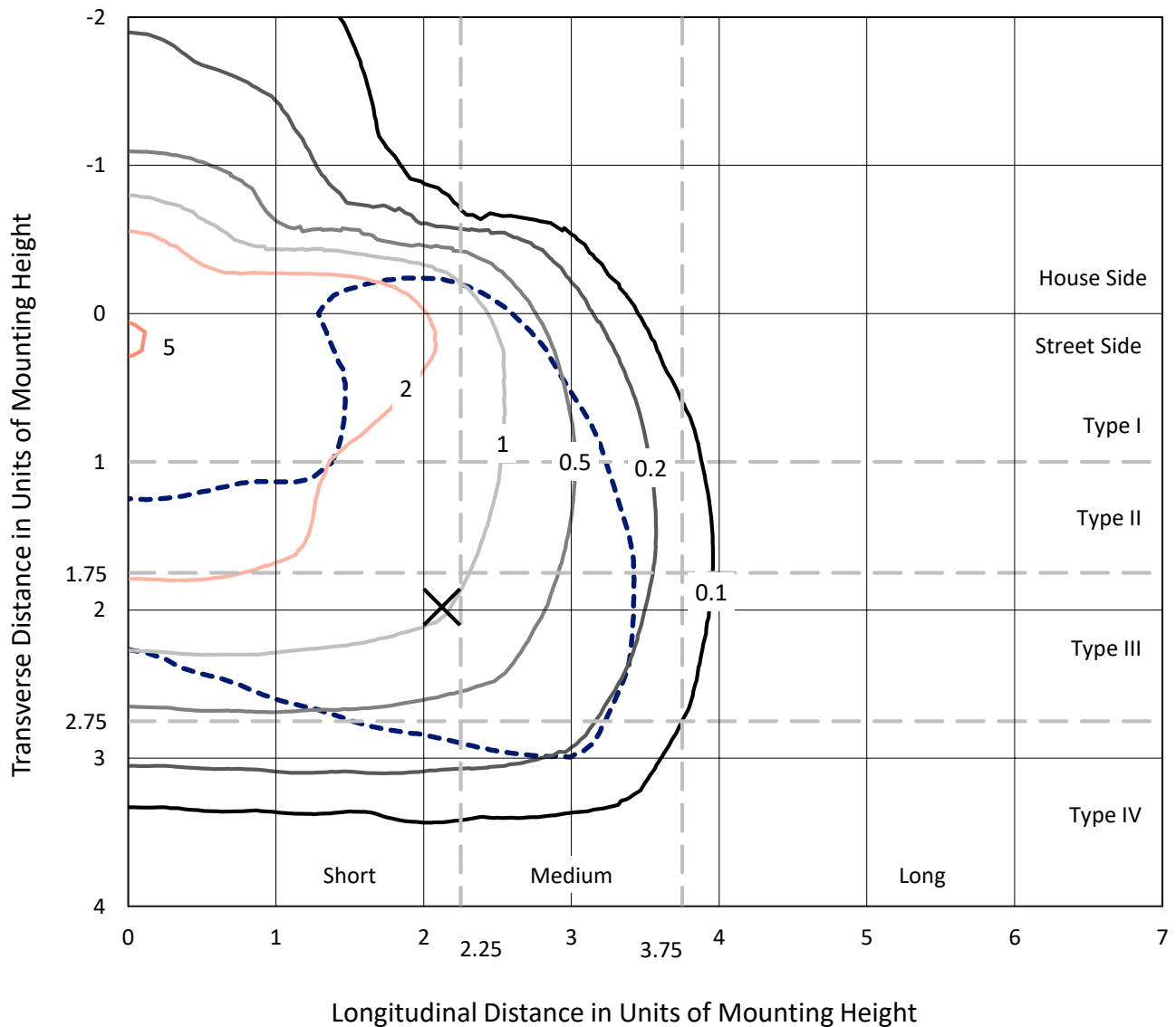


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

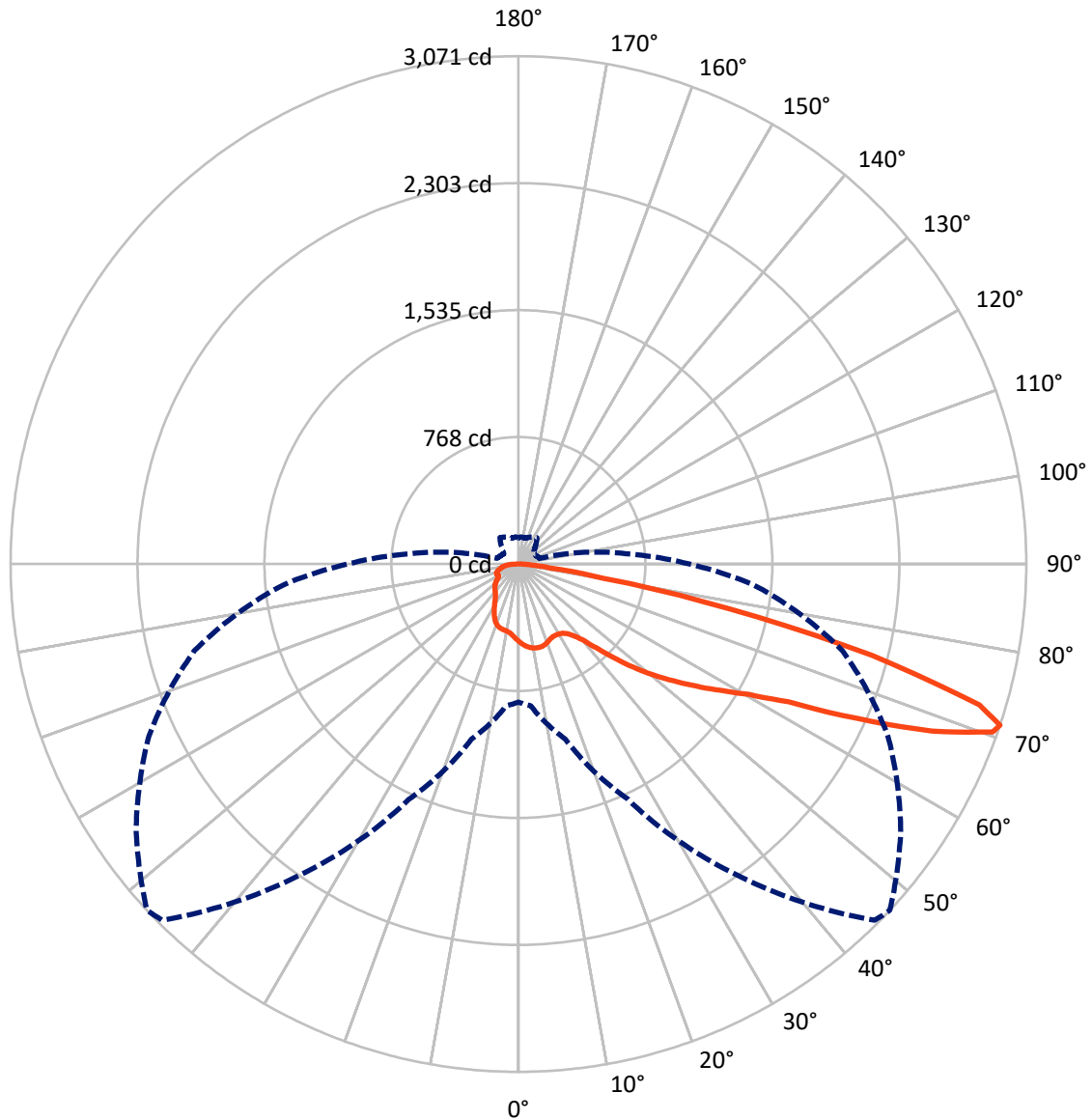


Based on 10 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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



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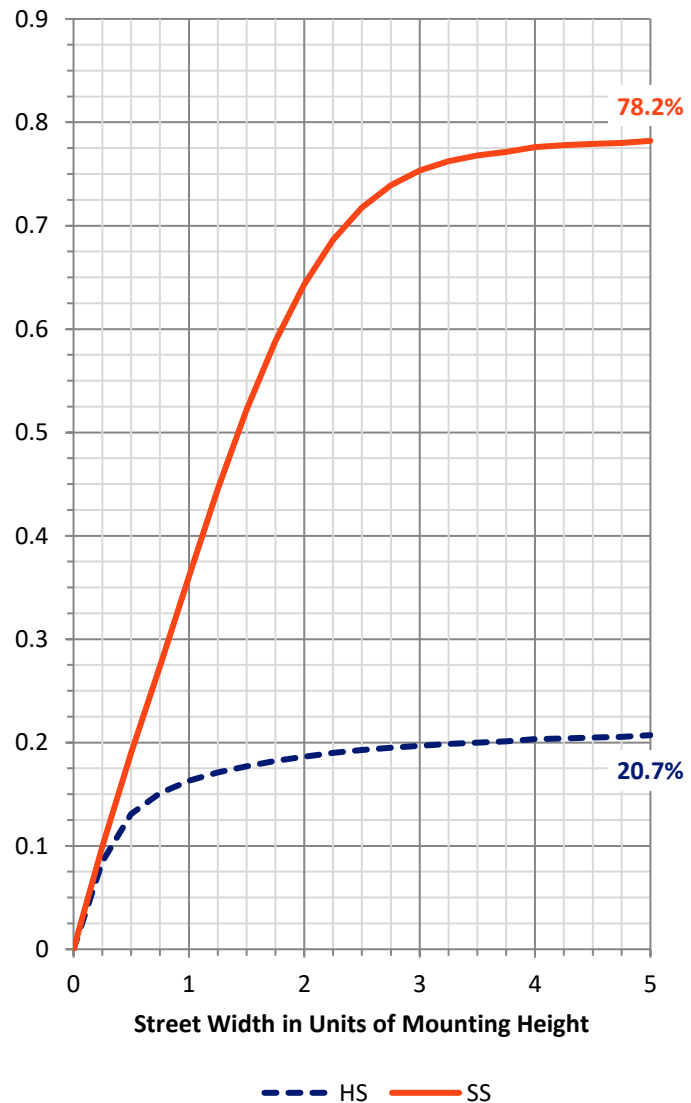
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	844.0	0.0	844.0
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	3094.0	0.0	3094.0
	% Fixture	78.6	0.0	78.6
Total	Lumens	3938.0	0.0	3938.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.7	1.1
10°-20°	130.8	3.3
20°-30°	194.4	4.9
30°-40°	279.1	7.1
40°-50°	494.9	12.6
50°-60°	846.8	21.5
60°-70°	1202.1	30.5
70°-80°	658.4	16.7
80°-90°	86.9	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°	3938.0	100.0
0°-180°	3938.0	100.0



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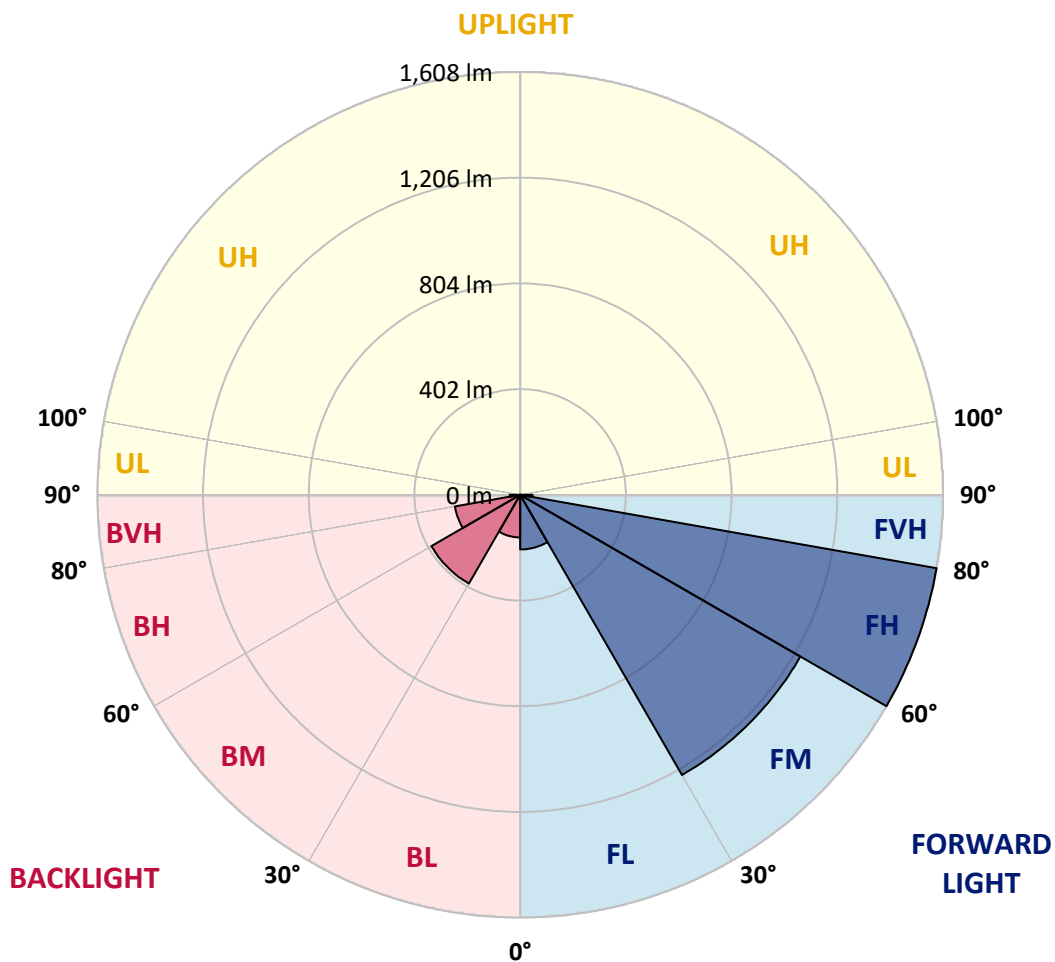
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	207.8	5.3			
FM	(30°-60°)	1230.7	31.3			
FH	(60°-80°)	1608.3	40.8			G1/1800
FVH	(80°-90°)	47.1	1.2			G1/100
BL	(0°-30°)	162.1	4.1	B1/500		
BM	(30°-60°)	390.0	9.9	B1/1000		
BH	(60°-80°)	252.2	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°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	496.9	495.9	496.4	494.6	490.2	485.6	485.6	480.8	475.7	470.6	465.0
5°	527.8	526.2	524.9	519.3	510.9	501.5	499.9	490.2	479.8	469.3	459.1
7.5°	553.5	552.0	548.2	538.0	525.7	511.7	509.9	497.1	483.4	468.8	454.5
10°	571.9	570.9	563.5	550.5	536.2	519.6	516.5	503.5	487.2	469.1	450.9
12.5°	582.1	580.6	571.7	556.3	539.5	522.7	519.6	507.1	488.5	468.5	447.4
15°	578.0	577.3	568.8	553.3	536.4	521.9	519.3	506.6	487.7	466.8	444.1
17.5°	560.7	562.5	555.8	540.5	526.7	516.5	513.7	501.7	483.9	462.4	438.9
20°	536.7	538.7	535.4	519.8	511.9	505.3	503.8	494.1	477.5	456.0	432.8
22.5°	511.2	513.0	513.2	498.7	496.1	493.6	492.3	485.4	471.9	452.2	428.7
25°	493.6	495.6	496.1	483.4	484.9	485.6	485.4	480.5	470.8	452.2	429.2
27.5°	489.0	490.0	489.5	477.7	480.5	484.9	485.1	484.1	474.9	457.3	436.4
30°	504.8	505.3	498.9	481.3	484.1	489.7	490.0	489.5	483.6	470.6	452.5
32.5°	573.2	572.7	550.7	505.3	495.6	497.6	498.4	503.0	503.5	492.5	475.7
35°	677.3	677.0	651.5	573.9	528.3	517.5	518.6	525.7	532.1	524.7	515.0
37.5°	791.9	792.7	777.1	671.9	598.7	554.0	553.0	558.4	569.9	572.4	573.7
40°	919.0	922.8	922.0	784.5	697.5	616.3	606.1	600.0	622.2	636.2	654.3
42.5°	1064.2	1063.2	1063.7	908.0	810.3	714.3	695.4	666.8	692.6	716.9	756.7
45°	1189.0	1193.1	1196.1	1039.4	936.6	826.3	807.2	755.1	778.4	814.6	875.3
47.5°	1314.5	1307.4	1313.0	1185.7	1077.2	954.2	929.4	859.3	881.0	932.0	1024.4
50°	1460.8	1457.5	1431.9	1376.6	1247.2	1083.8	1051.4	968.0	999.6	1067.8	1208.4
52.5°	1591.9	1574.1	1554.2	1526.6	1414.3	1215.0	1173.9	1081.0	1139.2	1223.7	1436.8
55°	1639.9	1627.9	1651.9	1687.6	1591.2	1348.7	1302.8	1213.0	1296.7	1402.1	1705.5
57.5°	1691.0	1695.0	1749.1	1821.4	1758.6	1491.4	1441.6	1369.2	1469.4	1601.6	2005.9
60°	1716.5	1732.8	1840.8	1976.3	1917.8	1647.8	1600.1	1548.6	1661.1	1822.1	2305.5
62.5°	1720.8	1742.8	1895.6	2030.6	2137.1	1887.5	1832.3	1776.5	1900.5	2065.9	2522.4
65°	1641.2	1674.9	1890.8	2097.5	2336.9	2287.9	2252.9	2155.4	2221.0	2280.5	2559.4
67.5°	1407.2	1443.9	1703.7	2069.9	2497.1	2703.3	2696.7	2552.8	2468.6	2363.4	2285.1
70°	1032.8	1062.4	1312.0	1769.6	2427.2	3029.5	3041.2	2810.3	2537.7	2187.3	1699.1
71°	835.3	860.8	1096.1	1571.0	2290.9	3046.3	3070.8	2821.8	2465.8	2028.3	1422.5
72.5°	519.8	534.1	727.8	1185.7	1972.7	2872.8	2914.1	2674.8	2239.1	1714.4	1005.5
75°	196.2	201.9	270.0	522.9	1177.5	2158.2	2208.3	2021.4	1573.1	978.7	420.8
77.5°	105.4	108.2	134.0	217.4	471.9	1237.2	1301.5	1153.0	754.6	342.5	172.0
80°	70.7	72.5	92.6	128.9	216.9	471.1	524.7	462.9	282.5	195.5	122.5
82.5°	45.7	46.7	63.0	84.7	140.1	165.6	189.1	197.5	176.3	140.1	74.0
85°	30.1	30.9	41.6	54.1	86.8	81.7	83.7	109.5	120.2	92.4	37.8
87.5°	17.4	17.9	25.0	27.8	39.0	30.6	33.2	52.1	71.5	60.2	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°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	462.4	460.4	455.8	453.0	451.7	451.2	450.7	451.7	451.7	451.2	450.2
5°	454.0	450.2	442.5	437.2	434.4	433.6	434.6	435.9	436.6	436.6	435.9
7.5°	447.9	442.3	432.1	424.7	420.3	419.0	421.8	426.4	429.5	431.0	431.3
10°	442.8	435.1	423.9	416.2	412.7	412.1	415.7	421.6	428.0	430.8	431.3
12.5°	438.2	429.5	417.3	410.1	407.6	408.8	413.7	419.0	426.4	430.5	430.8
15°	433.8	424.9	411.9	404.5	404.0	406.0	410.6	415.0	420.6	425.7	425.7
17.5°	428.7	419.0	405.5	398.6	398.6	400.4	403.5	405.8	409.3	414.2	413.9
20°	422.6	412.7	398.9	391.7	390.2	389.2	389.2	389.7	392.8	397.1	397.9
22.5°	418.0	407.8	393.3	384.6	377.7	371.1	368.3	367.2	370.0	374.1	375.1
25°	418.0	407.8	391.5	376.9	360.1	347.3	342.0	340.4	343.2	347.1	348.6
27.5°	424.9	414.7	395.6	370.0	339.2	318.7	312.4	311.1	313.6	316.7	318.2
30°	441.0	431.0	407.3	362.1	315.9	289.1	282.0	280.7	282.0	283.3	285.1
32.5°	467.8	459.4	426.4	355.0	292.5	262.3	253.7	251.6	252.1	252.4	253.9
35°	511.4	507.6	452.0	346.6	270.3	240.4	231.5	227.4	227.1	228.4	230.2
37.5°	578.3	580.6	484.9	334.3	251.9	224.8	215.9	211.8	209.8	212.3	214.4
40°	672.7	678.1	522.9	317.7	236.8	215.6	206.2	202.4	199.6	198.8	199.8
42.5°	795.5	793.9	561.7	296.5	220.5	209.5	199.6	195.5	190.9	185.0	183.7
45°	940.9	919.0	594.1	270.5	201.9	203.7	193.4	187.8	180.7	172.0	171.0
47.5°	1112.7	1052.2	614.0	242.7	184.5	196.0	186.6	177.9	167.4	161.8	161.0
50°	1319.6	1208.1	628.1	214.4	168.9	186.3	176.9	165.4	155.2	153.6	153.4
52.5°	1564.6	1392.1	645.4	188.8	156.7	173.8	167.2	155.4	147.3	148.0	148.0
55°	1825.2	1582.5	645.9	168.7	146.0	159.2	160.0	150.6	144.2	146.7	147.5
57.5°	2062.8	1748.9	595.1	154.4	135.8	147.8	157.7	152.4	147.5	156.4	157.2
60°	2270.0	1877.0	485.9	142.7	127.3	143.4	162.8	163.3	162.3	186.6	188.3
62.5°	2345.8	1878.3	345.0	132.7	122.8	146.0	173.5	174.3	174.3	196.8	200.1
65°	2239.6	1721.8	229.7	126.8	119.7	151.6	182.2	178.9	171.0	186.6	183.0
67.5°	1865.5	1340.3	167.9	123.0	115.4	151.8	189.9	181.4	167.9	181.2	175.1
70°	1282.1	852.9	140.6	119.4	110.2	145.2	194.0	180.7	163.3	168.9	160.8
71°	1032.0	680.6	133.5	118.2	108.2	141.4	194.5	179.7	161.0	164.6	157.2
72.5°	679.9	419.3	124.8	115.4	105.1	134.7	193.2	177.4	158.0	158.2	153.4
75°	268.2	173.8	112.3	109.0	96.5	124.0	187.6	172.5	152.1	147.0	145.0
77.5°	135.5	113.6	98.8	100.0	86.3	113.1	179.7	164.6	143.9	137.0	135.5
80°	99.0	86.3	84.5	86.8	74.8	102.3	169.7	153.9	133.5	140.6	137.6
82.5°	60.2	52.6	66.1	71.7	62.5	91.4	158.0	141.4	120.2	110.8	107.2
85°	28.6	30.9	47.7	52.8	46.2	73.0	144.4	127.6	104.9	90.6	92.1
87.5°	14.0	17.1	27.3	31.6	30.4	53.6	109.0	99.0	82.7	68.1	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)