

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: P198634

Luminaire Tested: **XNV-AF-01-LED-U-T4W-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198634
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-7030-600
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 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: 3486 lumens
Efficiency: N/A
Efficacy: 102.5 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): 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

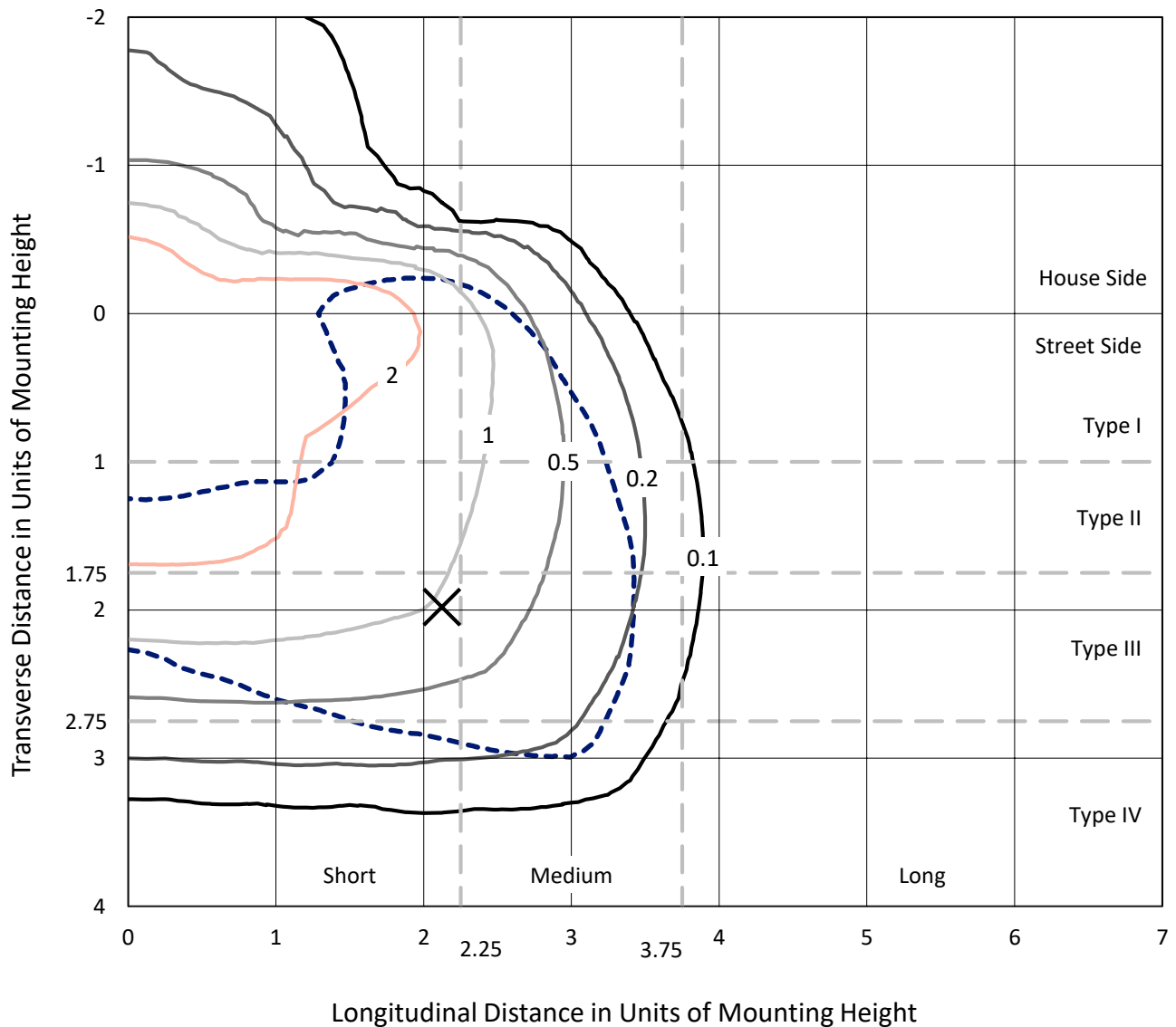


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

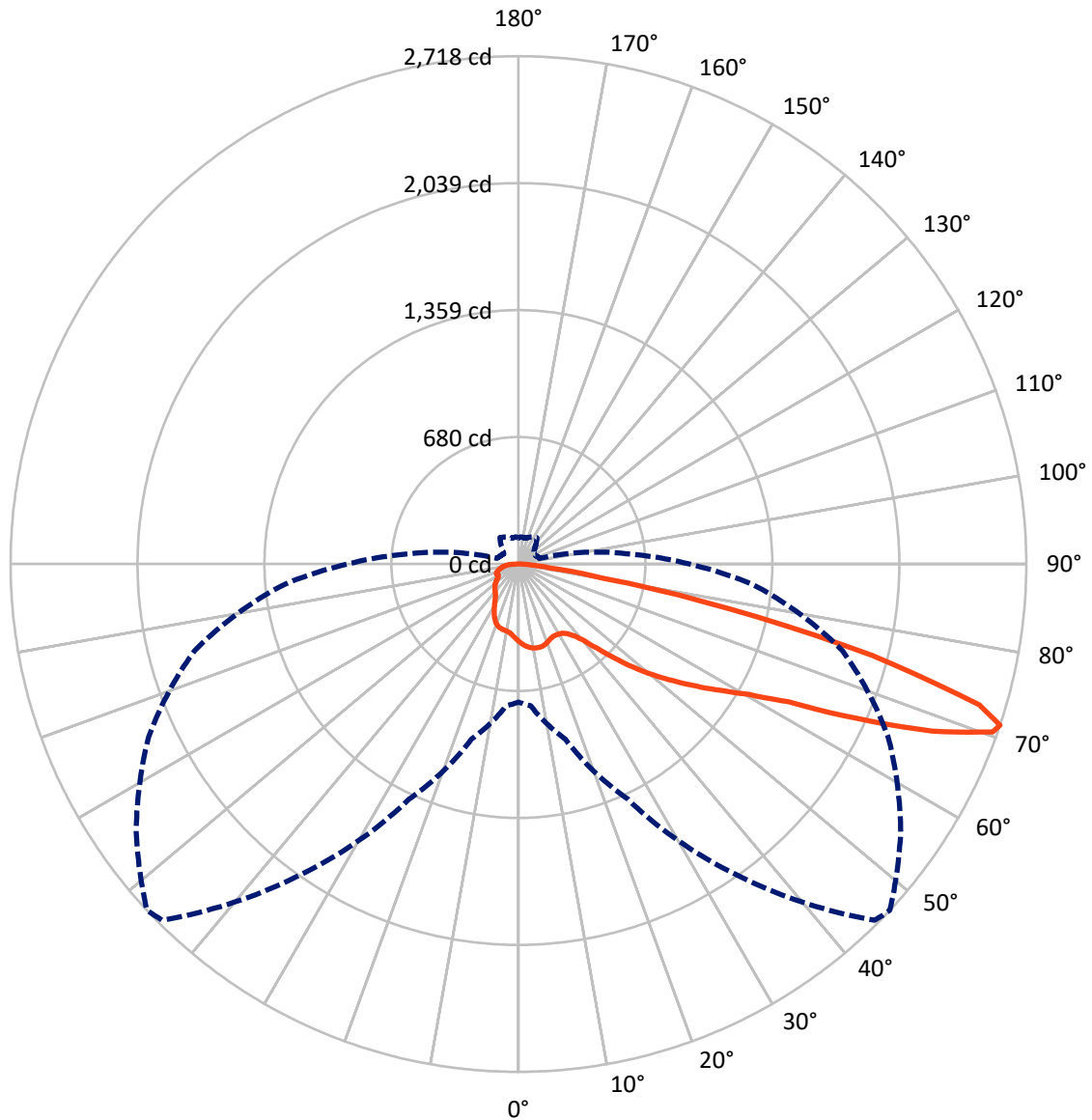


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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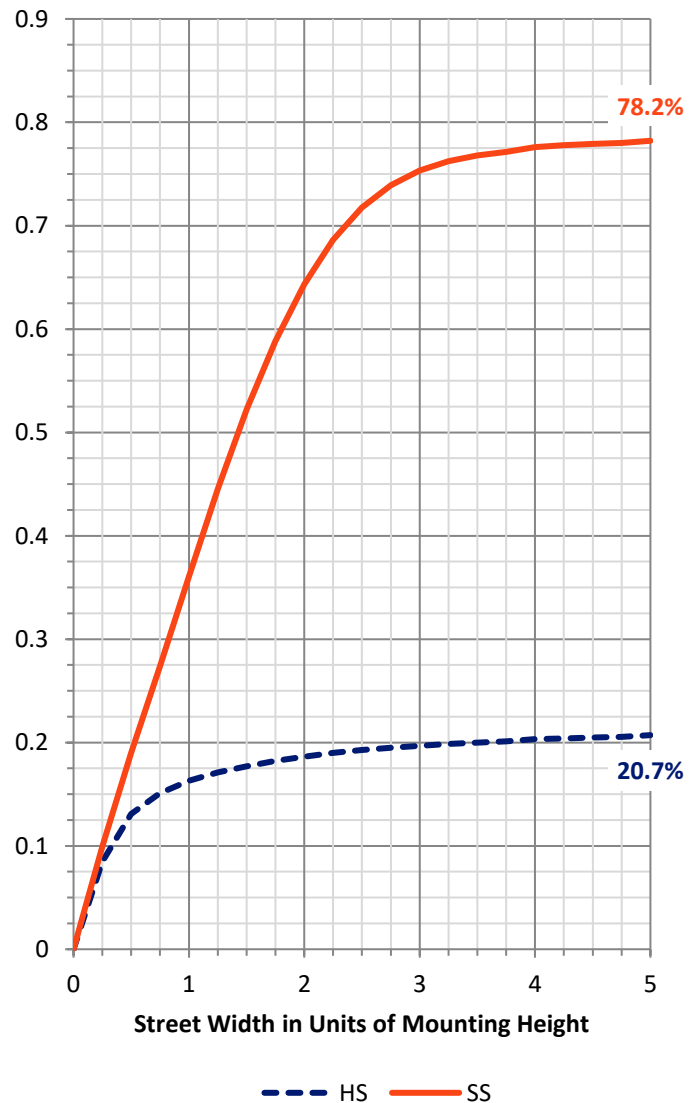
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	747.1	0.0	747.1
	% Fixture	21.4	0.0	21.4
Street Side	Lumens	2738.9	0.0	2738.9
	% Fixture	78.6	0.0	78.6
Total	Lumens	3486.0	0.0	3486.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	1.1
10°-20°	115.8	3.3
20°-30°	172.1	4.9
30°-40°	247.1	7.1
40°-50°	438.1	12.6
50°-60°	749.6	21.5
60°-70°	1064.1	30.5
70°-80°	582.8	16.7
80°-90°	76.9	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°	3486.0	100.0
0°-180°	3486.0	100.0



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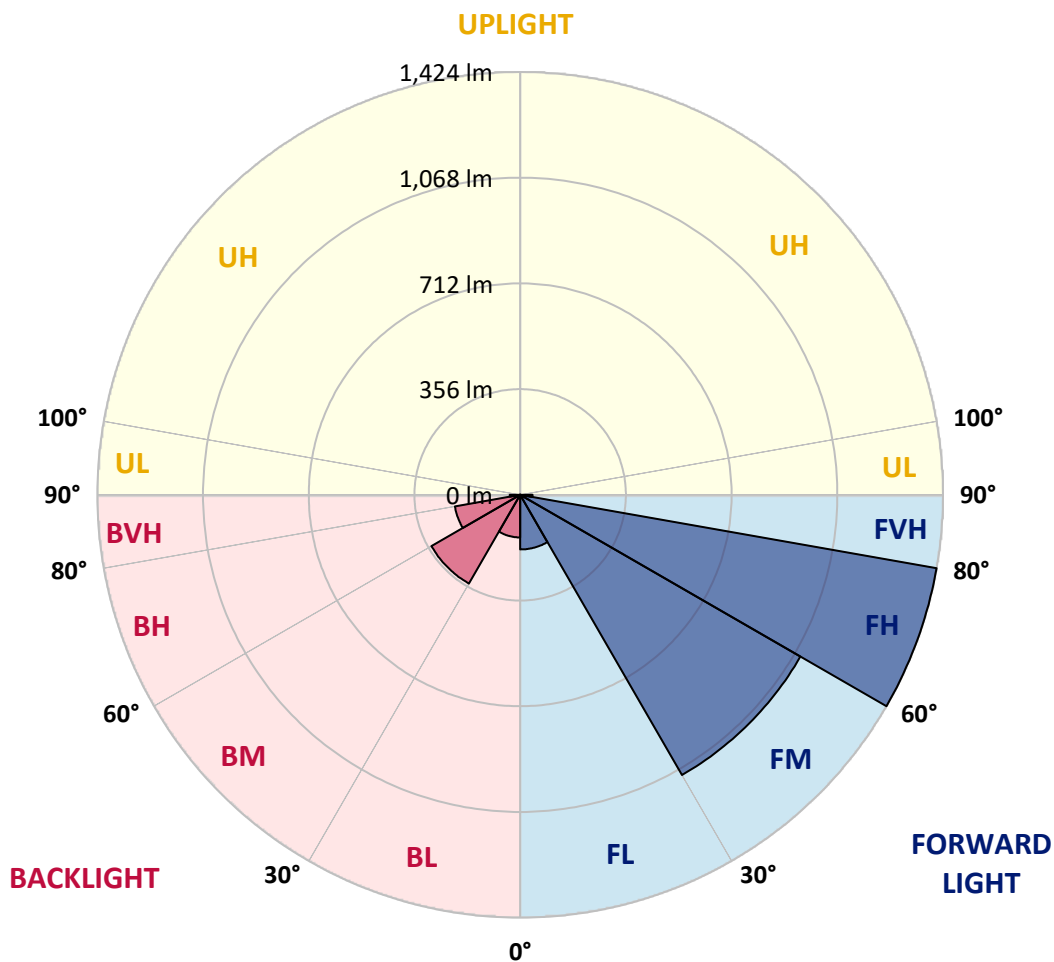
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	184.0	5.3			
FM	(30°-60°)	1089.5	31.3			
FH	(60°-80°)	1423.7	40.8			G1/1800
FVH	(80°-90°)	41.7	1.2			G1/100
BL	(0°-30°)	143.5	4.1	B1/500		
BM	(30°-60°)	345.2	9.9	B1/1000		
BH	(60°-80°)	223.2	6.4	B1/500		G1/500
BVH	(80°-90°)	35.2	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°	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5
2.5°	439.8	438.9	439.4	437.8	434.0	429.9	429.9	425.6	421.1	416.6	411.6
5°	467.2	465.8	464.7	459.7	452.3	443.9	442.6	434.0	424.7	415.4	406.4
7.5°	490.0	488.6	485.3	476.2	465.4	452.9	451.4	440.1	427.9	415.0	402.3
10°	506.3	505.4	498.8	487.3	474.6	460.0	457.2	445.7	431.3	415.2	399.2
12.5°	515.3	513.9	506.0	492.5	477.6	462.7	460.0	448.9	432.4	414.8	396.0
15°	511.7	511.0	503.6	489.8	474.9	462.0	459.7	448.4	431.7	413.2	393.1
17.5°	496.3	497.9	492.0	478.5	466.3	457.2	454.8	444.1	428.3	409.3	388.6
20°	475.1	476.9	474.0	460.2	453.2	447.3	445.9	437.4	422.7	403.7	383.1
22.5°	452.5	454.1	454.3	441.4	439.2	436.9	435.8	429.7	417.7	400.3	379.5
25°	436.9	438.7	439.2	427.9	429.2	429.9	429.7	425.4	416.8	400.3	380.0
27.5°	432.8	433.7	433.3	422.9	425.4	429.2	429.5	428.6	420.4	404.8	386.3
30°	446.8	447.3	441.7	426.1	428.6	433.5	433.7	433.3	428.1	416.6	400.5
32.5°	507.4	506.9	487.5	447.3	438.7	440.5	441.2	445.3	445.7	436.0	421.1
35°	599.6	599.3	576.7	508.1	467.6	458.1	459.0	465.4	471.0	464.5	455.9
37.5°	701.0	701.7	687.9	594.8	530.0	490.4	489.5	494.3	504.5	506.7	507.8
40°	813.5	816.9	816.2	694.4	617.4	545.6	536.5	531.1	550.8	563.2	579.2
42.5°	942.0	941.1	941.6	803.8	717.3	632.3	615.6	590.3	613.1	634.6	669.8
45°	1052.5	1056.1	1058.8	920.1	829.1	731.5	714.6	668.5	689.0	721.1	774.9
47.5°	1163.7	1157.3	1162.3	1049.6	953.6	844.7	822.8	760.6	779.8	825.0	906.8
50°	1293.1	1290.2	1267.6	1218.6	1104.0	959.4	930.7	856.9	884.9	945.2	1069.7
52.5°	1409.2	1393.4	1375.8	1351.4	1252.0	1075.6	1039.2	957.0	1008.5	1083.2	1271.9
55°	1451.7	1441.1	1462.3	1493.9	1408.5	1193.9	1153.3	1073.7	1147.8	1241.1	1509.8
57.5°	1496.9	1500.5	1548.4	1612.3	1556.7	1320.2	1276.2	1212.0	1300.8	1417.8	1775.6
60°	1519.5	1533.9	1629.5	1749.4	1697.7	1458.7	1416.5	1370.8	1470.4	1613.0	2040.9
62.5°	1523.3	1542.7	1678.1	1797.6	1891.8	1670.8	1622.0	1572.6	1682.3	1828.7	2232.9
65°	1452.8	1482.6	1673.8	1856.7	2068.7	2025.3	1994.3	1908.0	1966.1	2018.7	2265.6
67.5°	1245.7	1278.2	1508.2	1832.4	2210.5	2393.1	2387.2	2259.8	2185.2	2092.1	2022.8
70°	914.3	940.5	1161.4	1566.5	2148.6	2681.8	2692.2	2487.7	2246.4	1936.3	1504.1
71°	739.4	762.0	970.3	1390.7	2028.0	2696.7	2718.4	2497.9	2182.7	1795.5	1259.2
72.5°	460.2	472.8	644.3	1049.6	1746.3	2543.1	2579.7	2367.8	1982.1	1517.7	890.1
75°	173.7	178.7	239.0	462.9	1042.3	1910.5	1954.8	1789.4	1392.5	866.4	372.5
77.5°	93.3	95.8	118.6	192.5	417.7	1095.2	1152.1	1020.7	668.0	303.2	152.3
80°	62.6	64.2	82.0	114.1	192.0	417.0	464.5	409.8	250.1	173.0	108.4
82.5°	40.4	41.3	55.8	75.0	124.0	146.6	167.4	174.9	156.1	124.0	65.5
85°	26.7	27.3	36.8	47.9	76.8	72.3	74.1	96.9	106.4	81.8	33.4
87.5°	15.4	15.8	22.1	24.6	34.6	27.1	29.4	46.1	63.3	53.3	19.2
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°	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5	414.5
2.5°	409.3	407.5	403.5	401.0	399.9	399.4	399.0	399.9	399.9	399.4	398.5
5°	401.9	398.5	391.7	387.0	384.5	383.8	384.7	385.9	386.5	386.5	385.9
7.5°	396.5	391.5	382.5	375.9	372.1	370.9	373.4	377.5	380.2	381.6	381.8
10°	392.0	385.2	375.2	368.5	365.3	364.8	368.0	373.2	378.9	381.3	381.8
12.5°	387.9	380.2	369.4	363.0	360.8	361.9	366.2	370.9	377.5	381.1	381.3
15°	384.0	376.1	364.6	358.1	357.6	359.4	363.5	367.3	372.3	376.8	376.8
17.5°	379.5	370.9	359.0	352.9	352.9	354.5	357.2	359.2	362.4	366.7	366.4
20°	374.1	365.3	353.1	346.8	345.4	344.5	344.5	345.0	347.7	351.5	352.2
22.5°	370.0	361.0	348.1	340.4	334.3	328.5	326.0	325.1	327.6	331.2	332.1
25°	370.0	361.0	346.5	333.7	318.8	307.5	302.7	301.4	303.8	307.2	308.6
27.5°	376.1	367.1	350.2	327.6	300.2	282.2	276.5	275.4	277.6	280.4	281.7
30°	390.4	381.6	360.6	320.6	279.7	256.0	249.6	248.5	249.6	250.8	252.3
32.5°	414.1	406.6	377.5	314.2	258.9	232.2	224.6	222.7	223.2	223.4	224.8
35°	452.7	449.3	400.1	306.8	239.2	212.8	204.9	201.3	201.1	202.2	203.8
37.5°	511.9	513.9	429.2	295.9	223.0	199.0	191.1	187.5	185.7	188.0	189.8
40°	595.5	600.2	462.9	281.3	209.6	190.9	182.5	179.1	176.7	176.0	176.9
42.5°	704.2	702.8	497.2	262.5	195.2	185.5	176.7	173.0	169.0	163.8	162.7
45°	832.9	813.5	525.9	239.5	178.7	180.3	171.2	166.3	159.9	152.3	151.4
47.5°	985.0	931.4	543.5	214.8	163.3	173.5	165.1	157.5	148.2	143.2	142.5
50°	1168.2	1069.5	556.0	189.8	149.6	164.9	156.6	146.4	137.4	136.0	135.8
52.5°	1385.1	1232.3	571.3	167.2	138.7	153.8	148.0	137.6	130.3	131.0	131.0
55°	1615.7	1400.9	571.8	149.3	129.2	141.0	141.6	133.3	127.6	129.9	130.6
57.5°	1826.0	1548.2	526.8	136.7	120.2	130.8	139.6	134.9	130.6	138.5	139.2
60°	2009.5	1661.6	430.1	126.3	112.7	127.0	144.1	144.6	143.7	165.1	166.7
62.5°	2076.6	1662.7	305.4	117.5	108.7	129.2	153.6	154.3	154.3	174.2	177.1
65°	1982.6	1524.2	203.3	112.3	106.0	134.2	161.3	158.4	151.4	165.1	162.0
67.5°	1651.4	1186.5	148.6	108.9	102.1	134.4	168.1	160.6	148.6	160.4	155.0
70°	1135.0	755.0	124.5	105.7	97.6	128.5	171.7	159.9	144.6	149.6	142.3
71°	913.6	602.5	118.2	104.6	95.8	125.2	172.1	159.0	142.5	145.7	139.2
72.5°	601.8	371.2	110.5	102.1	93.1	119.3	171.0	157.0	139.8	140.1	135.8
75°	237.4	153.8	99.4	96.5	85.4	109.8	166.0	152.7	134.6	130.1	128.3
77.5°	120.0	100.5	87.4	88.6	76.4	100.1	159.0	145.7	127.4	121.3	120.0
80°	87.7	76.4	74.8	76.8	66.2	90.6	150.2	136.2	118.2	124.5	121.8
82.5°	53.3	46.5	58.5	63.5	55.3	80.9	139.8	125.2	106.4	98.0	94.9
85°	25.3	27.3	42.2	46.8	40.9	64.6	127.9	113.0	92.8	80.2	81.6
87.5°	12.4	15.1	24.2	28.0	26.9	47.4	96.5	87.7	73.2	60.3	59.0
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)