

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: McGRAW-EDISON

Report Number: P191359

Luminaire Tested: **GLEON-AF-01-LED-E1-T2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191359
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-01-LED-E1-T2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5054.4 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B1 - U0 - G1

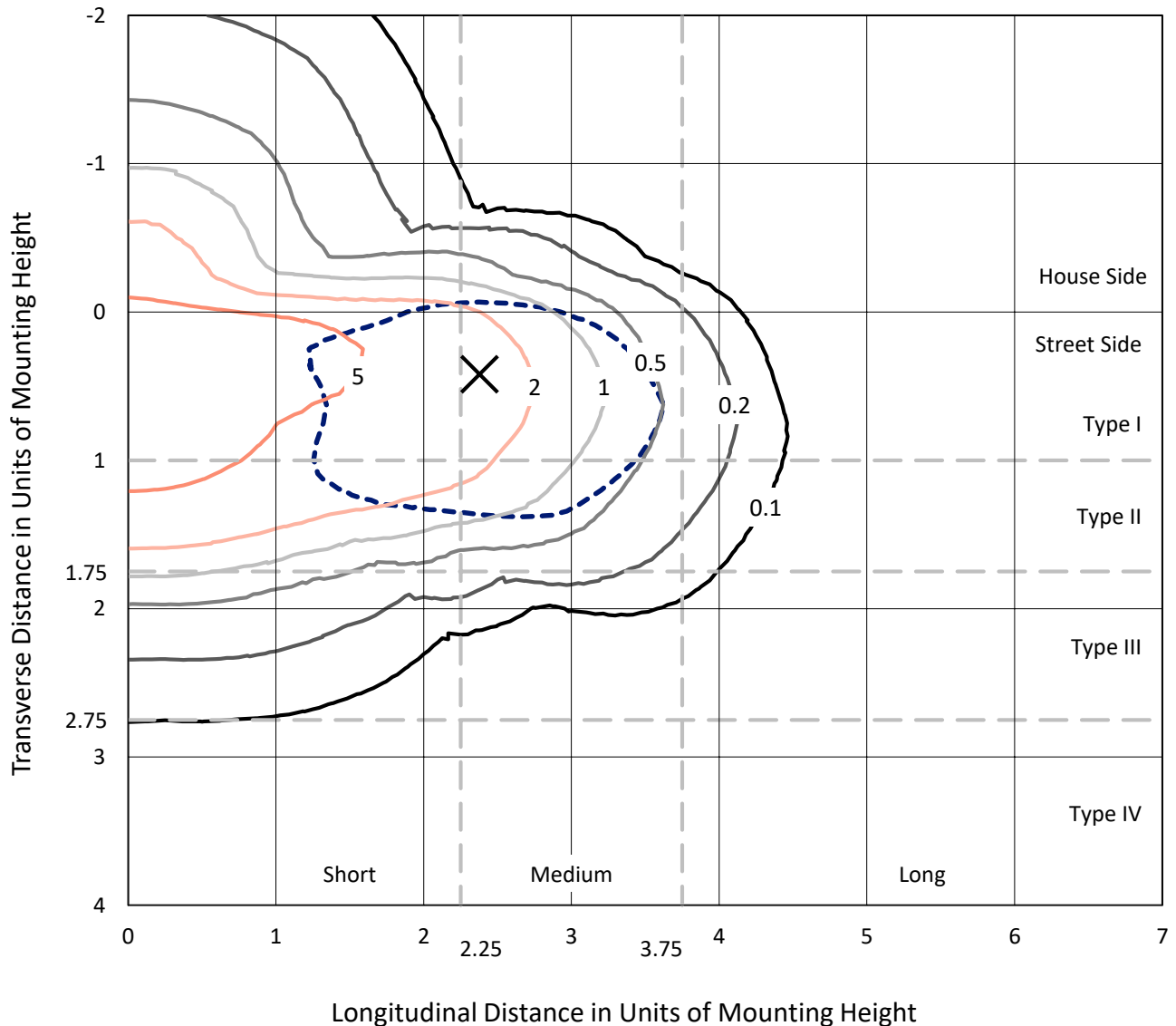
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

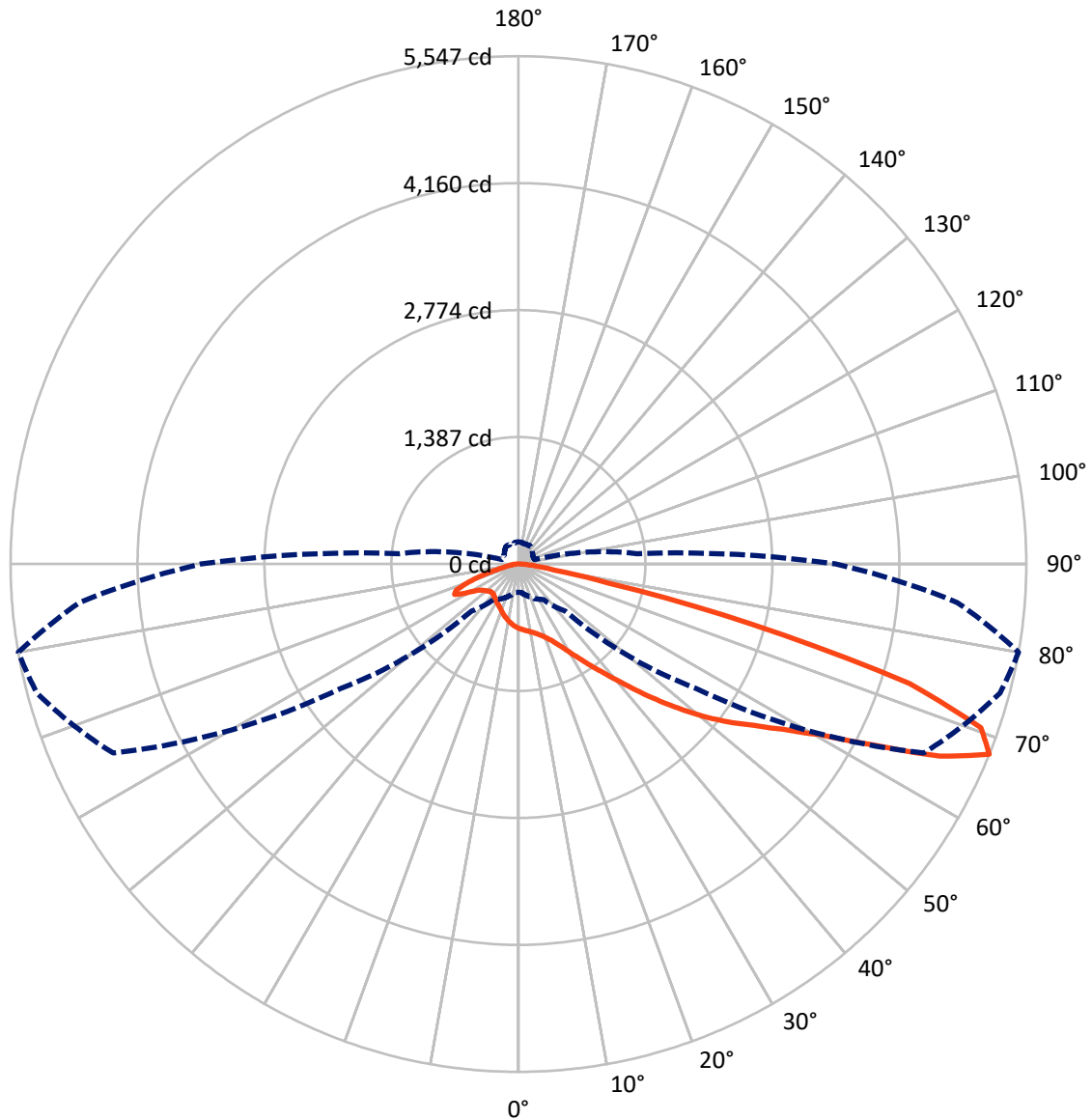
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	930.8	0.0	930.8
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	4123.6	0.0	4123.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	5054.4	0.0	5054.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	1.3
10°-20°	186.6	3.7
20°-30°	308.9	6.1
30°-40°	505.2	10.0
40°-50°	815.7	16.1
50°-60°	1177.7	23.3
60°-70°	1299.6	25.7
70°-80°	599.0	11.9
80°-90°	96.9	1.9
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°	5054.4	100.0
0°-180°	5054.4	100.0



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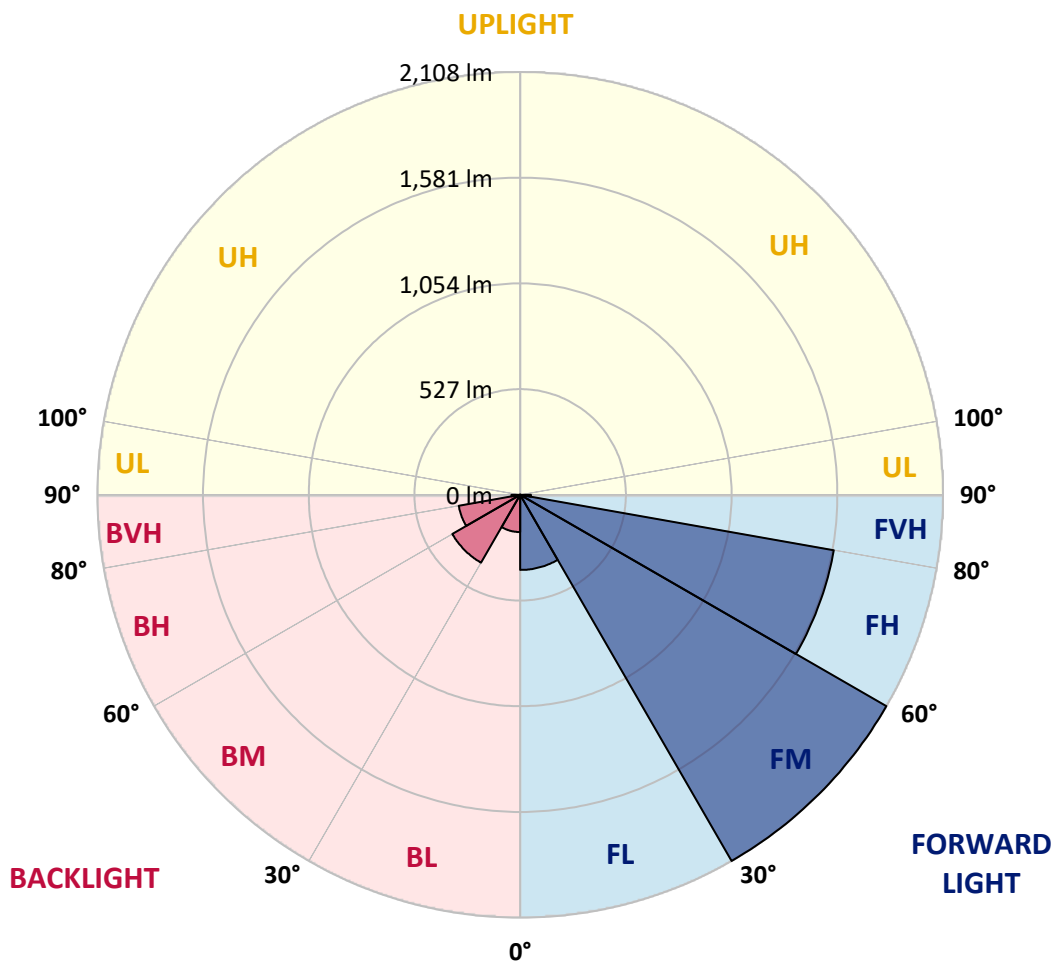
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	374.5	7.4			
FM (30°-60°)	2108.1	41.7			
FH (60°-80°)	1587.7	31.4			G1/1800
FVH (80°-90°)	53.3	1.1			G1/100
BL (0°-30°)	185.7	3.7	B1/500		
BM (30°-60°)	390.5	7.7	B1/1000		
BH (60°-80°)	310.9	6.2	B1/500		G1/500
BVH (80°-90°)	43.6	0.9			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2
2.5°	768.1	763.6	764.5	763.1	759.4	753.0	746.0	733.4	720.2	713.2	707.7
5°	832.4	831.1	829.3	825.4	815.9	802.5	785.8	763.4	739.3	726.6	714.4
7.5°	880.4	879.6	877.4	874.9	865.7	849.6	824.4	792.5	757.4	740.0	721.1
10°	884.3	885.6	887.3	894.1	895.3	886.6	860.9	822.4	776.3	753.9	729.8
12.5°	850.5	853.2	860.0	877.2	895.3	906.0	892.8	853.8	798.5	771.4	740.8
15°	805.7	807.2	815.4	839.0	871.7	904.8	917.2	888.3	827.2	793.8	757.2
17.5°	786.5	787.3	793.0	808.7	839.0	886.4	930.9	925.9	862.2	821.6	777.3
20°	776.8	778.6	786.9	802.2	821.4	862.7	932.8	966.5	904.0	856.5	802.7
22.5°	804.4	803.7	806.7	814.5	830.6	855.5	931.4	1008.2	957.3	901.2	835.9
25°	868.9	871.7	866.4	857.7	863.0	880.4	939.4	1053.5	1024.0	958.7	879.1
27.5°	960.8	958.0	950.3	929.9	919.2	926.7	965.7	1102.3	1106.8	1034.4	936.3
30°	1052.3	1050.1	1042.6	1017.7	995.8	989.6	1017.0	1158.3	1205.5	1125.2	1006.5
32.5°	1147.3	1144.9	1137.9	1113.1	1086.7	1072.3	1089.9	1223.0	1322.1	1233.7	1089.1
35°	1264.6	1259.9	1245.1	1210.6	1184.7	1173.5	1181.7	1304.4	1456.4	1362.1	1189.4
37.5°	1374.8	1382.0	1367.1	1319.3	1285.7	1281.8	1291.0	1403.7	1601.2	1505.7	1304.7
40°	1485.5	1486.8	1473.4	1434.3	1399.7	1393.3	1416.4	1524.1	1772.2	1677.3	1444.7
42.5°	1600.0	1602.5	1579.8	1543.7	1518.4	1519.6	1546.0	1665.2	1968.3	1879.7	1605.9
45°	1735.6	1739.3	1714.5	1667.2	1644.0	1690.5	1679.6	1823.4	2183.3	2109.6	1791.1
47.5°	1877.4	1883.2	1864.2	1819.9	1791.1	1855.0	1813.3	1998.8	2414.7	2356.2	1994.3
50°	1954.9	1963.0	1981.5	1978.2	1971.9	1961.3	1962.3	2187.0	2653.3	2613.0	2203.4
52.5°	1913.2	1913.0	1980.2	2061.9	2148.9	2155.4	2143.9	2385.3	2876.2	2864.1	2400.3
55°	1723.2	1736.0	1837.8	1995.9	2233.7	2382.4	2416.1	2612.5	3095.2	3109.4	2600.0
57.5°	1406.7	1417.3	1554.7	1774.9	2119.3	2517.2	2803.3	2942.7	3340.0	3406.2	2866.0
60°	954.0	967.0	1112.6	1377.0	1811.2	2442.0	3171.9	3531.9	3633.2	3783.7	3239.3
62.5°	560.6	572.3	691.0	868.7	1275.3	2093.0	3333.6	4370.3	4098.8	4353.3	3808.7
65°	386.0	393.9	451.6	540.7	732.8	1409.6	3133.0	4949.0	4815.1	5059.0	4468.8
67.5°	310.6	309.5	355.4	416.0	471.8	726.8	2369.2	4883.6	5445.2	5547.0	4811.4
70°	255.8	254.8	285.9	336.1	377.0	409.3	1290.5	4121.2	5316.8	5358.1	4495.9
72.5°	214.0	215.0	234.9	272.2	309.3	308.3	567.1	2899.1	4182.6	4468.2	3583.9
75°	180.7	181.2	194.4	220.8	251.0	248.4	307.6	1570.6	2431.3	2630.1	1986.7
77.5°	153.7	154.3	162.8	177.4	199.1	198.0	224.4	678.5	1014.3	1001.8	679.5
80°	137.1	137.1	141.1	143.8	155.8	151.3	166.4	326.0	428.7	395.9	271.2
82.5°	107.5	108.0	132.4	131.3	122.7	116.9	116.9	192.1	227.2	210.0	158.8
85°	60.5	60.3	85.3	103.0	108.0	82.3	81.6	107.5	123.7	108.9	76.9
87.5°	25.9	26.4	39.6	45.8	61.2	51.2	50.5	55.4	62.9	54.5	35.6
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°	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2	702.2
2.5°	702.5	696.0	681.8	664.1	648.2	637.7	628.3	614.6	615.4	605.9	598.9
5°	701.9	688.5	655.7	616.6	579.0	551.9	531.5	513.1	508.6	499.9	494.7
7.5°	702.5	680.6	625.3	562.8	516.3	482.0	464.5	454.9	452.7	449.7	449.9
10°	704.2	673.3	592.0	512.6	463.8	441.2	436.9	440.0	443.4	444.4	444.7
12.5°	708.2	666.9	555.4	467.8	431.0	424.0	431.3	441.4	448.2	451.4	451.1
15°	717.1	661.8	520.3	432.7	412.9	416.5	429.9	444.4	454.1	458.6	458.9
17.5°	726.8	654.7	484.3	405.8	399.4	408.9	425.5	442.4	454.4	459.3	460.3
20°	739.5	645.7	446.4	385.7	386.7	397.4	413.1	429.9	443.1	447.4	449.4
22.5°	756.2	636.0	413.3	369.3	372.3	380.4	392.6	407.3	418.8	420.7	422.5
25°	778.6	625.5	387.0	354.4	355.6	360.3	368.6	377.3	385.1	383.0	384.7
27.5°	808.7	616.6	367.2	340.6	338.4	339.4	343.6	346.4	350.6	344.4	345.1
30°	844.0	606.9	352.1	328.7	322.5	320.7	321.7	323.3	326.4	318.0	316.8
32.5°	885.1	595.3	337.9	318.2	309.5	306.1	306.6	310.6	322.9	317.7	315.1
35°	932.8	582.1	322.9	306.8	300.8	295.8	295.3	307.8	344.8	341.7	339.1
37.5°	988.9	568.9	308.0	293.9	294.4	288.9	287.1	301.4	349.1	336.4	334.7
40°	1060.0	561.9	295.3	280.2	286.4	285.6	282.1	289.4	321.2	298.1	295.1
42.5°	1148.2	562.8	285.9	265.5	276.9	284.9	279.5	279.7	291.1	273.7	271.0
45°	1256.9	574.6	279.2	253.8	266.3	284.2	278.4	274.5	275.5	266.3	264.7
47.5°	1383.7	598.7	274.5	244.1	256.0	281.4	278.2	272.9	270.8	265.8	264.5
50°	1524.8	633.8	271.0	234.9	246.8	276.9	278.4	271.5	269.0	267.0	266.3
52.5°	1663.4	673.8	265.8	226.9	239.6	271.5	279.2	270.0	267.2	265.8	265.0
55°	1818.0	723.8	257.8	220.2	233.6	264.5	279.2	267.7	264.7	265.0	264.7
57.5°	2026.8	804.8	248.4	214.5	226.5	256.0	274.5	265.3	261.6	261.8	262.0
60°	2353.0	947.3	236.9	208.8	217.5	246.1	268.0	259.8	256.0	257.1	257.3
62.5°	2832.7	1156.5	222.0	200.3	208.1	235.4	259.0	252.8	249.1	251.5	251.5
65°	3331.3	1341.2	203.6	189.7	198.0	223.7	247.9	244.1	240.4	246.1	245.8
67.5°	3465.5	1299.9	185.2	177.9	188.1	210.7	234.4	232.4	230.4	240.4	239.9
70°	3078.6	1043.6	168.2	165.9	177.2	196.8	219.9	219.9	218.7	226.2	224.4
72.5°	2345.5	740.0	152.0	153.2	164.7	181.7	204.3	206.0	204.1	207.8	206.3
75°	1255.6	423.5	135.8	139.3	149.2	166.2	186.9	188.6	187.4	187.1	187.9
77.5°	417.3	207.0	119.0	124.4	133.1	150.3	168.7	171.4	168.5	168.0	167.7
80°	185.9	130.1	100.2	107.5	115.2	132.2	149.6	151.8	148.5	153.0	147.3
82.5°	119.5	85.6	80.4	88.4	95.9	114.0	130.4	130.8	127.9	148.5	126.6
85°	58.0	53.0	60.5	67.7	74.2	89.6	108.0	108.2	100.8	91.9	88.6
87.5°	28.8	30.9	40.3	46.7	50.0	61.5	78.7	77.1	73.9	67.2	62.0
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)