

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: P192259

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192259
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 5000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6838 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

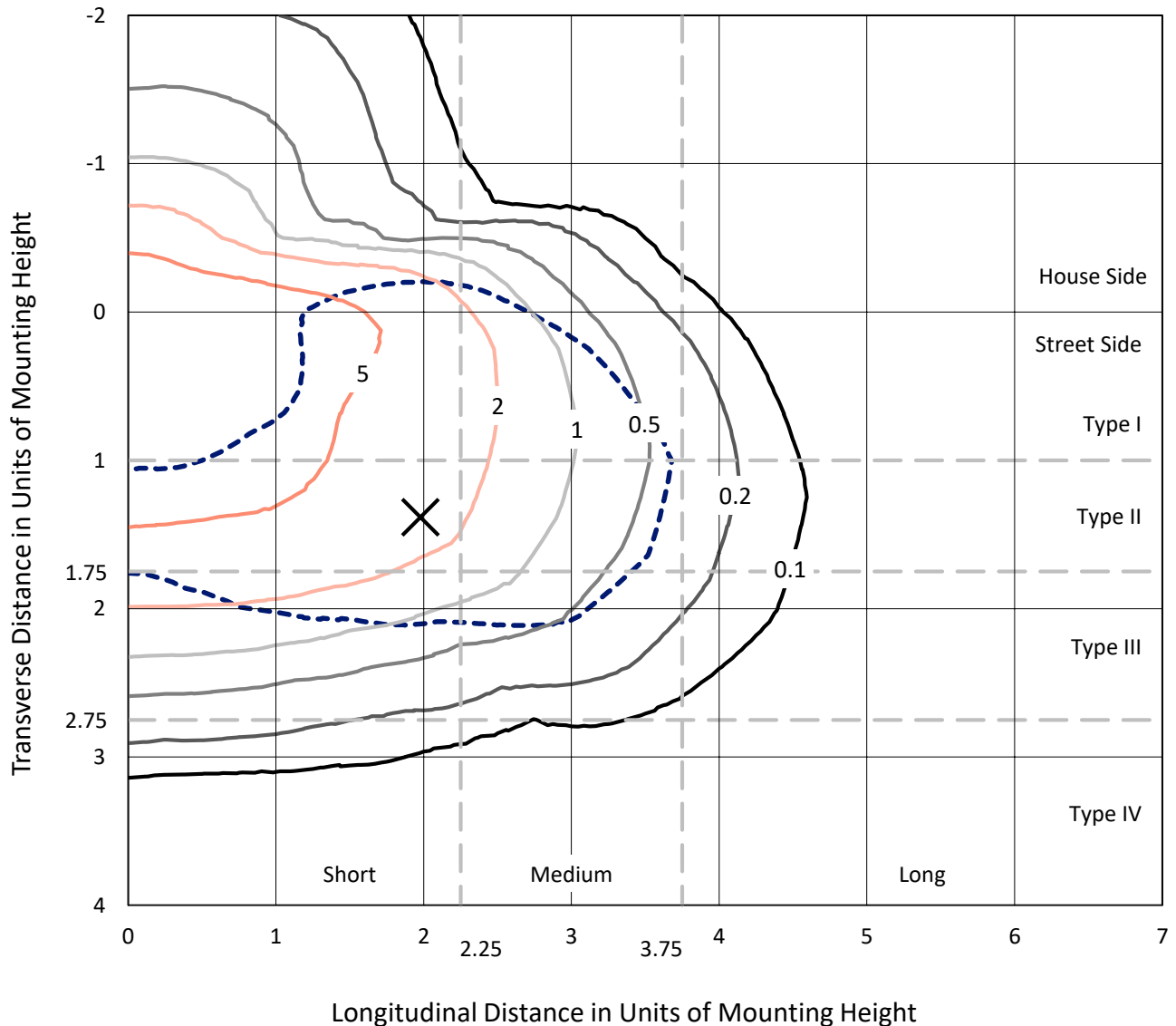


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Iso-Footcandle Lines of Horizontal Illumination

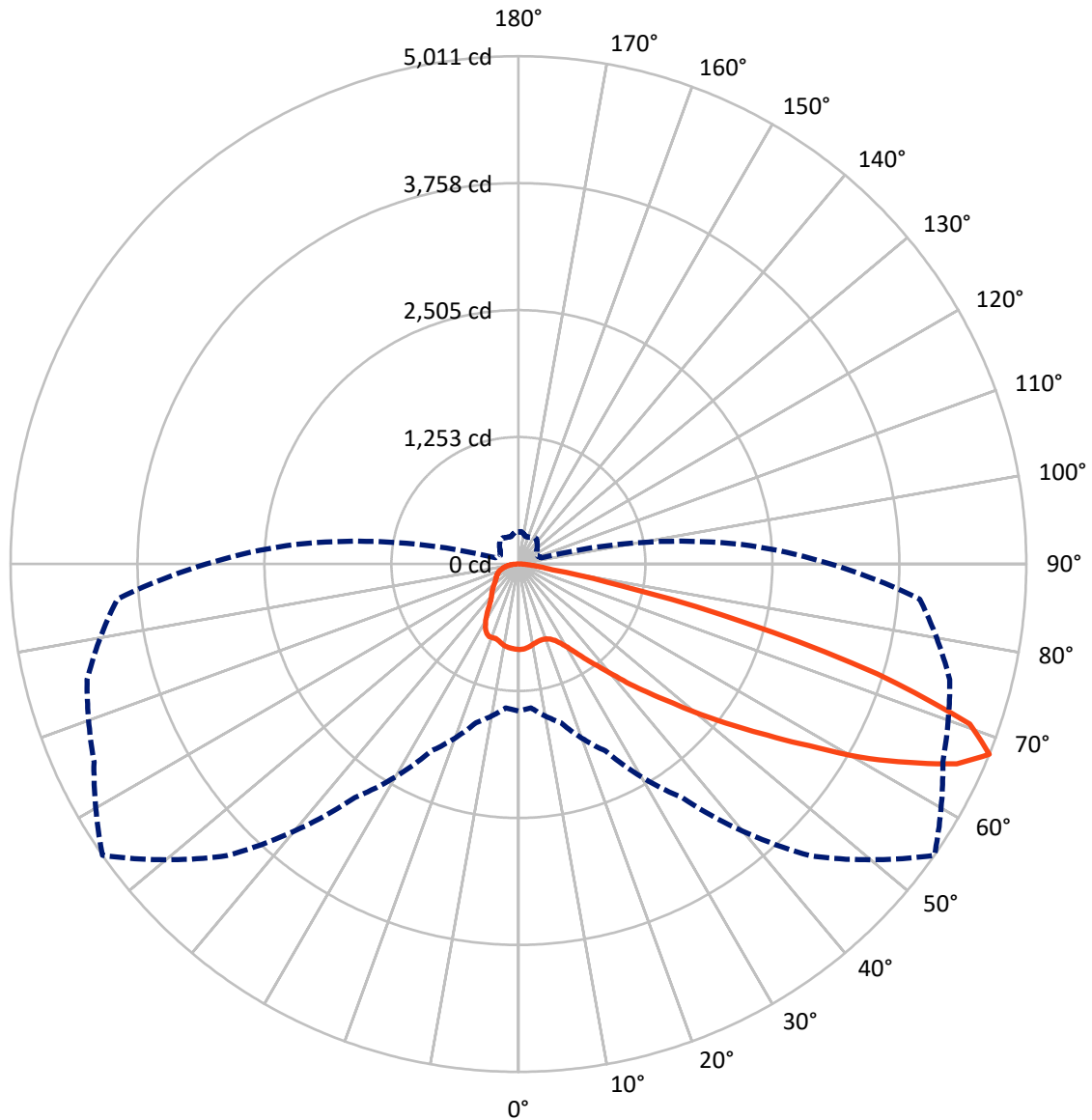
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1477.2	0.0	1477.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	5360.8	0.0	5360.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	6838.0	0.0	6838.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.7	1.2
10°-20°	222.9	3.3
20°-30°	373.4	5.5
30°-40°	614.0	9.0
40°-50°	1033.6	15.1
50°-60°	1626.8	23.8
60°-70°	1941.4	28.4
70°-80°	833.7	12.2
80°-90°	113.7	1.7
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°	6838.0	100.0
0°-180°	6838.0	100.0



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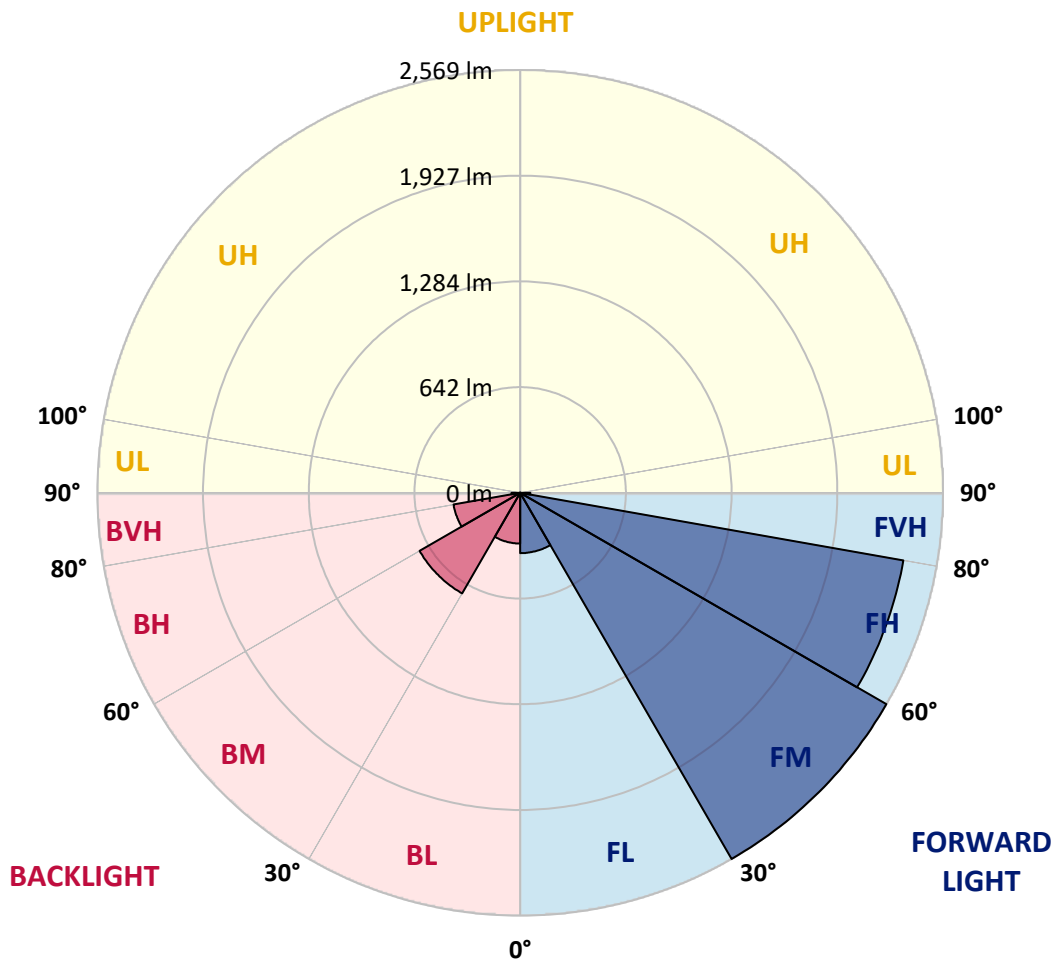
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	366.5	5.4			
FM	(30°-60°)	2568.9	37.6			
FH	(60°-80°)	2363.9	34.6			G2/5000
FVH	(80°-90°)	61.5	0.9			G1/100
BL	(0°-30°)	308.5	4.5	B1/500		
BM	(30°-60°)	705.5	10.3	B1/1000		
BH	(60°-80°)	411.1	6.0	B1/500		G1/500
BVH	(80°-90°)	52.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2
2.5°	835.9	836.3	836.9	839.6	841.9	841.2	841.5	840.2	839.9	837.9	839.9
5°	825.4	826.4	826.7	831.0	833.6	834.3	833.3	831.6	829.7	827.7	828.7
7.5°	801.3	803.9	804.2	810.2	814.5	820.1	820.4	820.7	819.8	818.4	820.4
10°	786.1	786.7	786.4	790.7	794.0	800.3	803.9	810.2	812.8	813.5	814.8
12.5°	785.1	784.4	783.4	783.4	782.4	785.1	791.7	800.6	806.9	808.9	810.5
15°	795.6	795.3	792.0	787.1	780.8	778.8	784.4	794.3	802.6	806.9	808.5
17.5°	819.4	817.4	812.2	800.9	787.4	782.1	782.8	791.0	800.6	806.2	807.9
20°	863.0	863.0	851.8	830.6	806.5	794.0	788.0	793.0	802.2	809.8	812.2
22.5°	938.3	939.0	920.2	885.5	844.9	818.1	803.2	802.2	813.1	821.7	824.4
25°	1045.0	1042.4	1015.9	966.4	904.6	860.4	834.6	828.7	837.9	847.5	850.8
27.5°	1169.2	1159.6	1128.2	1068.4	988.5	923.8	884.2	874.6	883.5	894.4	897.7
30°	1292.0	1282.1	1244.8	1179.4	1090.6	1008.7	951.9	936.3	948.9	964.4	966.4
32.5°	1414.9	1414.9	1373.3	1297.0	1200.2	1110.1	1042.0	1023.5	1044.3	1063.2	1067.5
35°	1561.9	1562.5	1522.3	1430.4	1326.4	1230.9	1156.0	1142.4	1173.8	1187.0	1197.3
37.5°	1742.5	1746.2	1694.3	1583.4	1469.4	1369.0	1279.8	1261.3	1292.7	1328.7	1361.7
40°	1937.7	1942.4	1885.2	1748.5	1634.5	1529.5	1433.1	1399.7	1451.9	1520.6	1563.2
42.5°	2124.0	2147.8	2092.6	1951.9	1829.4	1720.7	1623.0	1574.4	1639.8	1743.5	1780.5
45°	2393.2	2410.4	2314.3	2186.8	2071.5	1950.0	1820.5	1769.3	1860.8	1991.6	1999.2
47.5°	2572.5	2559.7	2510.8	2431.5	2358.5	2244.9	2050.0	1993.9	2115.4	2269.3	2226.7
50°	2668.0	2672.0	2665.3	2670.0	2672.6	2601.3	2331.4	2254.5	2399.5	2585.4	2487.3
52.5°	2757.2	2730.7	2752.5	2860.9	2991.7	2965.2	2637.6	2557.3	2704.0	2936.2	2762.8
55°	2755.2	2714.9	2785.9	2977.1	3260.8	3291.2	2981.4	2888.9	3026.0	3312.4	3054.7
57.5°	2657.7	2659.7	2769.1	3019.4	3448.4	3597.7	3380.4	3241.7	3367.5	3693.5	3321.3
60°	2523.7	2541.8	2699.4	3012.5	3598.7	3849.1	3869.9	3621.8	3702.1	4040.0	3541.9
62.5°	2307.3	2326.5	2543.8	2940.5	3575.9	4091.2	4312.4	4053.2	4051.9	4250.0	3606.6
65°	1966.1	1960.5	2188.8	2671.3	3384.7	4270.2	4752.0	4426.1	4315.4	4253.3	3476.5
67.5°	1449.9	1424.8	1620.7	2034.5	2813.3	4069.7	5010.6	4620.3	4405.2	3973.6	3078.9
70°	752.4	727.3	885.8	1188.0	1850.2	3176.3	4724.3	4519.9	4206.8	3330.9	2412.0
72.5°	321.7	317.4	381.8	521.2	895.1	1832.1	3704.4	3912.1	3609.6	2481.7	1658.3
75°	216.3	215.0	239.1	284.0	402.6	743.5	2318.2	2777.0	2640.9	1538.8	932.7
77.5°	169.8	168.1	182.3	204.1	260.9	293.3	1028.8	1490.9	1379.9	669.8	408.2
80°	132.8	131.5	140.4	152.3	187.6	185.0	338.5	593.2	459.1	256.6	198.5
82.5°	104.7	104.7	112.0	112.3	133.1	126.2	176.7	261.3	229.2	149.6	121.5
85°	95.8	95.8	103.4	83.9	86.9	79.6	109.7	154.9	145.3	61.4	52.8
87.5°	48.2	46.9	86.9	74.3	47.2	42.3	53.5	75.0	80.6	34.0	26.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2	843.2
2.5°	839.2	838.9	839.6	839.9	842.5	846.2	847.8	850.1	851.5	850.8
5°	829.3	830.0	832.6	834.6	839.2	845.2	848.5	851.1	853.4	852.4
7.5°	821.1	822.7	826.7	828.3	831.0	832.6	832.3	833.3	835.3	833.0
10°	816.4	818.4	821.4	819.1	812.8	803.9	795.6	791.3	792.7	791.0
12.5°	811.8	814.5	812.2	801.3	783.8	772.2	765.9	766.6	769.5	770.2
15°	809.2	810.2	800.3	779.8	762.0	760.3	763.6	762.9	763.3	763.3
17.5°	809.2	806.5	788.0	767.6	760.0	757.0	746.8	733.9	728.3	726.3
20°	813.5	806.5	784.1	770.5	754.0	728.6	701.5	677.7	667.2	664.2
22.5°	826.4	814.5	795.3	771.9	725.0	682.4	639.4	611.0	591.9	588.6
25°	852.4	839.2	817.4	754.4	678.7	618.0	569.1	537.4	518.2	515.6
27.5°	898.0	889.4	829.3	715.7	617.3	552.2	507.0	482.5	468.3	467.3
30°	966.7	962.4	823.4	658.6	541.7	488.5	466.7	452.5	441.9	441.6
32.5°	1076.4	1041.7	803.9	588.9	472.6	443.2	434.3	425.7	417.5	417.5
35°	1217.4	1105.8	766.9	514.2	430.7	418.1	406.9	393.4	382.5	381.8
37.5°	1383.2	1145.4	700.5	454.1	410.9	401.3	384.8	364.6	345.5	342.2
40°	1550.7	1157.3	607.1	417.1	398.3	384.4	364.3	340.5	322.0	321.0
42.5°	1704.2	1134.5	508.0	391.7	385.8	367.3	346.1	325.0	310.5	310.1
45°	1833.0	1075.4	424.7	367.6	372.6	351.7	332.9	315.7	304.5	302.2
47.5°	1954.3	991.8	366.3	342.2	359.3	343.2	327.3	311.1	300.2	298.6
50°	2095.0	901.7	325.3	317.4	347.8	340.2	331.9	315.1	296.9	294.9
52.5°	2265.4	823.7	293.3	295.6	338.9	344.1	343.8	326.3	294.6	292.0
55°	2455.6	737.2	269.2	277.8	335.2	351.4	346.8	336.9	296.6	292.6
57.5°	2642.9	636.1	252.3	264.2	329.9	350.8	332.6	318.4	301.2	295.6
60°	2783.3	500.4	239.5	252.3	318.4	339.9	317.1	298.2	300.2	295.9
62.5°	2792.5	386.8	223.9	242.1	300.9	329.0	306.8	289.3	304.5	300.6
65°	2628.4	292.3	209.1	229.9	282.1	322.0	296.9	284.4	313.4	309.1
67.5°	2212.9	235.2	196.5	217.3	263.2	307.5	288.0	279.7	321.4	313.8
70°	1597.6	200.5	184.3	202.1	246.4	291.0	280.1	271.5	299.9	288.0
72.5°	983.6	173.7	170.4	182.0	233.5	273.8	268.2	256.0	270.2	260.6
75°	491.1	150.6	154.9	162.2	215.3	254.3	248.4	236.1	238.1	236.1
77.5°	235.2	128.8	136.7	142.3	191.9	232.2	225.9	213.4	211.0	211.4
80°	149.0	107.7	115.3	119.2	171.4	206.4	200.1	187.6	214.0	198.5
82.5°	93.1	87.5	89.5	96.8	149.3	179.7	171.4	160.2	192.9	152.6
85°	51.5	61.1	63.7	70.0	114.9	150.3	142.0	127.8	114.6	112.6
87.5°	30.7	36.3	37.3	41.9	77.3	108.7	96.1	91.2	75.6	75.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)