

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: P191459

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191459  
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-T3-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6994.9 lumens  
Efficiency: N/A  
Efficacy: 104.4 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

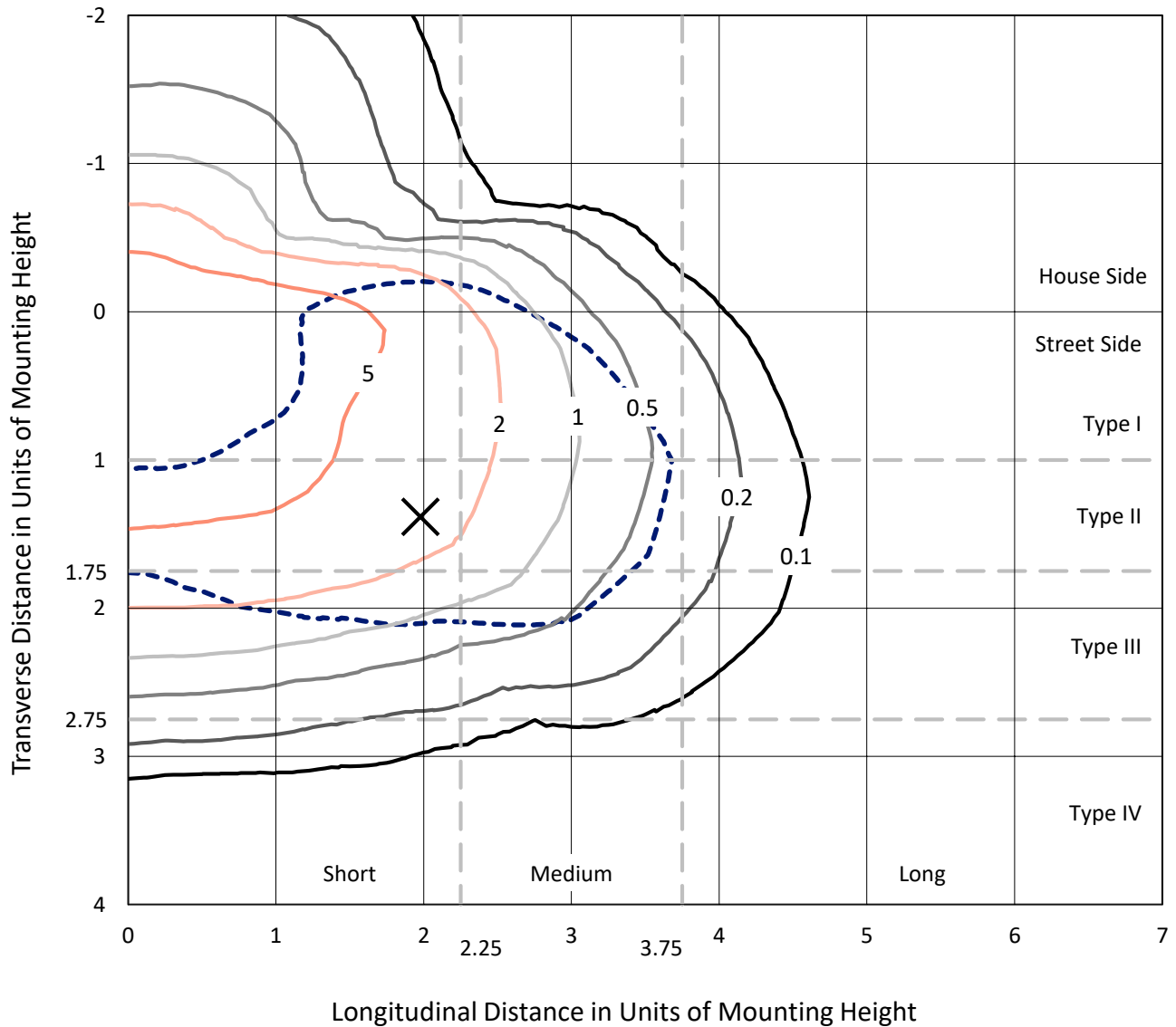


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

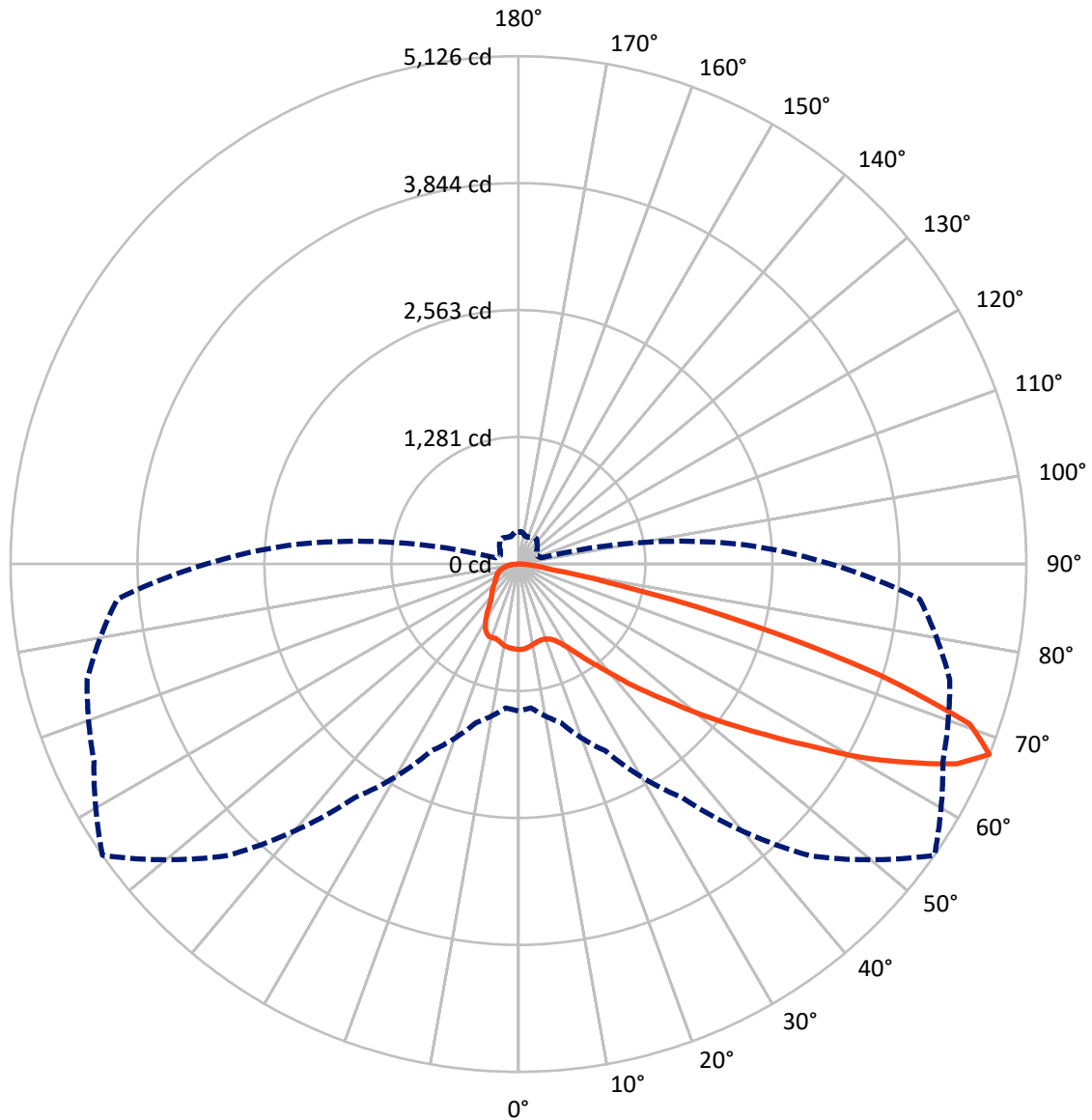


Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type III - Short - Full Cutoff

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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
<b>House Side</b>	Lumens	1511.1	0.0	1511.1
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	5483.9	0.0	5483.9
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	6994.9	0.0	6994.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.5	1.2
10°-20°	228.0	3.3
20°-30°	382.0	5.5
30°-40°	628.1	9.0
40°-50°	1057.3	15.1
50°-60°	1664.1	23.8
60°-70°	1985.9	28.4
70°-80°	852.8	12.2
80°-90°	116.3	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°	6994.9	100.0
0°-180°	6994.9	100.0



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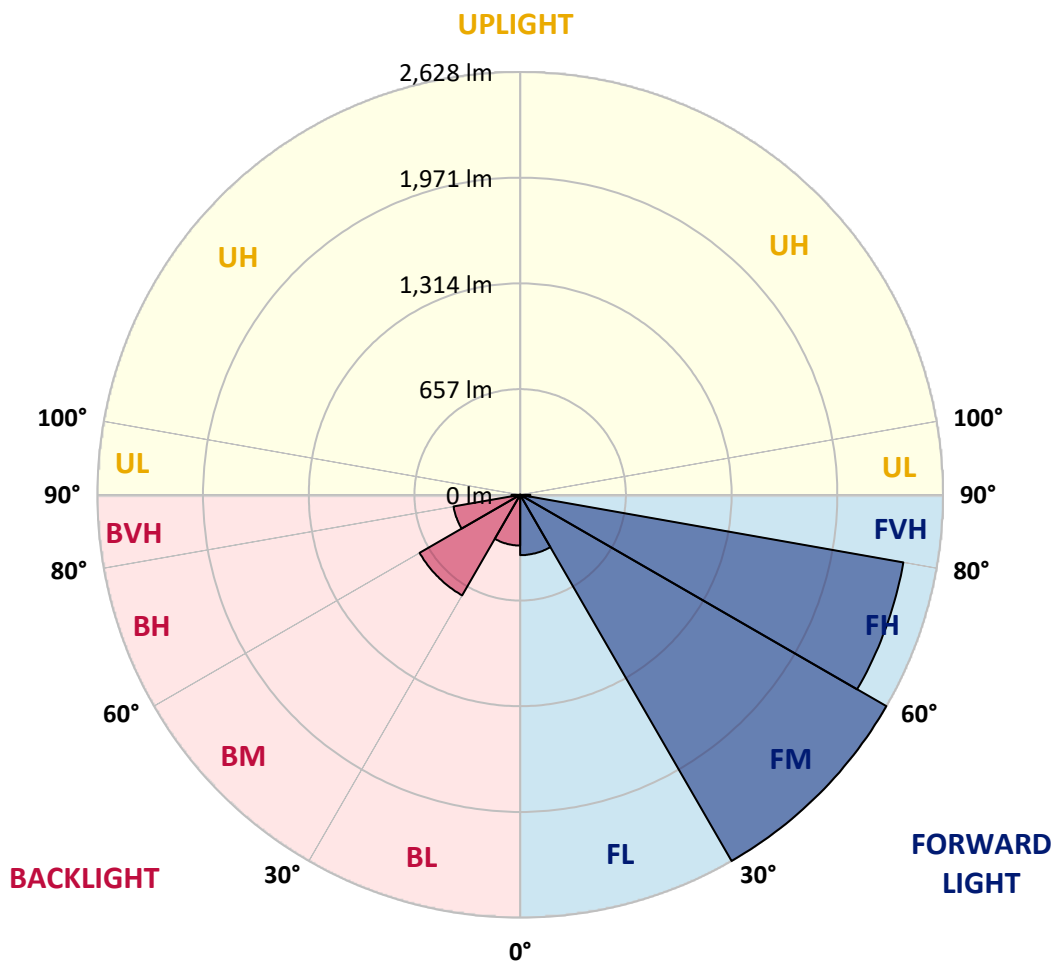
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	374.9	5.4			
FM	(30°-60°)	2627.8	37.6			
FH	(60°-80°)	2418.2	34.6			G2/5000
FVH	(80°-90°)	62.9	0.9			G1/100
BL	(0°-30°)	315.5	4.5	B1/500		
BM	(30°-60°)	721.7	10.3	B1/1000		
BH	(60°-80°)	420.5	6.0	B1/500		G1/500
BVH	(80°-90°)	53.3	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°	862.6	862.6	862.6	862.6	862.6	862.6	862.6	862.6	862.6	862.6	862.6
2.5°	855.1	855.5	856.1	858.9	861.2	860.5	860.8	859.5	859.2	857.1	859.2
5°	844.3	845.4	845.7	850.1	852.7	853.4	852.4	850.7	848.7	846.7	847.7
7.5°	819.7	822.4	822.7	828.8	833.2	838.9	839.2	839.5	838.6	837.2	839.2
10°	804.1	804.8	804.4	808.8	812.2	818.7	822.4	828.8	831.5	832.2	833.5
12.5°	803.1	802.4	801.4	801.4	800.4	803.1	809.9	819.0	825.4	827.5	829.1
15°	813.9	813.6	810.2	805.2	798.7	796.7	802.4	812.5	821.0	825.4	827.1
17.5°	838.2	836.2	830.8	819.3	805.5	800.0	800.8	809.2	819.0	824.7	826.4
20°	882.8	882.8	871.3	849.7	825.0	812.2	806.1	811.2	820.6	828.4	830.8
22.5°	959.8	960.6	941.3	905.8	864.3	836.9	821.6	820.6	831.8	840.6	843.3
25°	1069.0	1066.3	1039.2	988.6	925.4	880.1	853.8	847.7	857.1	867.0	870.3
27.5°	1196.0	1186.2	1154.1	1092.9	1011.2	945.0	904.5	894.7	903.8	914.9	918.3
30°	1321.7	1311.5	1273.4	1206.5	1115.6	1031.9	973.7	957.8	970.7	986.5	988.6
32.5°	1447.4	1447.4	1404.8	1326.8	1227.7	1135.6	1065.9	1047.0	1068.3	1087.6	1092.0
35°	1597.7	1598.4	1557.2	1463.2	1356.8	1259.2	1182.5	1168.6	1200.7	1214.2	1224.8
37.5°	1782.5	1786.3	1733.2	1619.7	1503.1	1400.4	1309.2	1290.2	1322.4	1359.2	1393.0
40°	1982.2	1987.0	1928.5	1788.6	1672.0	1564.6	1466.0	1431.8	1485.2	1555.5	1599.1
42.5°	2172.7	2197.1	2140.6	1996.7	1871.4	1760.2	1660.2	1610.5	1677.4	1783.5	1821.4
45°	2448.1	2465.7	2367.4	2237.0	2119.0	1994.8	1862.3	1809.9	1903.5	2037.3	2045.1
47.5°	2631.5	2618.4	2568.4	2487.3	2412.6	2296.4	2097.0	2039.7	2164.0	2321.4	2277.8
50°	2729.2	2733.3	2726.5	2731.3	2733.9	2661.0	2384.9	2306.2	2454.6	2644.7	2544.4
52.5°	2820.5	2793.4	2815.7	2926.6	3060.4	3033.3	2698.1	2616.0	2766.1	3003.6	2826.2
55°	2818.4	2777.2	2849.8	3045.4	3335.6	3366.7	3049.8	2955.2	3095.4	3388.4	3124.8
57.5°	2718.7	2720.7	2832.7	3088.7	3527.5	3680.3	3458.0	3316.1	3444.8	3778.3	3397.5
60°	2581.6	2600.1	2761.4	3081.6	3681.3	3937.4	3958.7	3704.9	3787.1	4132.7	3623.2
62.5°	2360.3	2379.9	2602.2	3008.0	3658.0	4185.1	4411.4	4146.2	4144.9	4347.5	3689.4
65°	2011.2	2005.5	2239.0	2732.6	3462.4	4368.2	4861.1	4527.7	4414.4	4350.9	3556.3
67.5°	1483.2	1457.5	1657.9	2081.2	2877.9	4163.1	5125.6	4726.3	4506.3	4064.8	3149.6
70°	769.7	744.0	906.1	1215.3	1892.7	3249.2	4832.7	4623.6	4303.3	3407.3	2467.4
72.5°	329.1	324.7	390.6	533.2	915.6	1874.1	3789.4	4001.9	3692.4	2538.7	1696.4
75°	221.3	219.9	244.6	290.5	411.8	760.6	2371.4	2840.7	2701.5	1574.1	954.1
77.5°	173.7	172.0	186.5	208.8	266.9	300.0	1052.4	1525.1	1411.6	685.2	417.6
80°	135.8	134.5	143.6	155.8	191.9	189.2	346.3	606.8	469.6	262.5	203.1
82.5°	107.1	107.1	114.6	114.9	136.2	129.1	180.8	267.3	234.5	153.0	124.3
85°	98.0	98.0	105.8	85.8	88.9	81.4	112.2	158.5	148.6	62.8	54.0
87.5°	49.3	48.0	88.9	76.0	48.3	43.3	54.7	76.7	82.4	34.8	27.0
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°	862.6	862.6	862.6	862.6	862.6	862.6	862.6	862.6	862.6	862.6
2.5°	858.5	858.2	858.9	859.2	861.8	865.6	867.3	869.6	871.0	870.3
5°	848.3	849.0	851.7	853.8	858.5	864.6	868.0	870.6	873.0	872.0
7.5°	839.9	841.6	845.7	847.3	850.1	851.7	851.4	852.4	854.5	852.1
10°	835.1	837.2	840.3	837.9	831.5	822.4	813.9	809.5	810.9	809.2
12.5°	830.4	833.2	830.8	819.7	801.8	789.9	783.5	784.2	787.2	787.9
15°	827.8	828.8	818.7	797.7	779.5	777.7	781.1	780.4	780.8	780.8
17.5°	827.8	825.0	806.1	785.2	777.4	774.4	763.9	750.7	745.0	743.0
20°	832.2	825.0	802.1	788.2	771.3	745.3	717.6	693.3	682.5	679.4
22.5°	845.4	833.2	813.6	789.6	741.6	698.1	654.1	625.0	605.5	602.1
25°	872.0	858.5	836.2	771.7	694.3	632.2	582.2	549.7	530.1	527.4
27.5°	918.6	909.8	848.3	732.1	631.5	564.9	518.6	493.6	479.0	478.0
30°	988.9	984.5	842.3	673.7	554.1	499.7	477.4	462.9	452.0	451.7
32.5°	1101.1	1065.6	822.4	602.4	483.4	453.4	444.3	435.5	427.1	427.1
35°	1245.3	1131.2	784.5	526.0	440.6	427.7	416.2	402.4	391.3	390.6
37.5°	1414.9	1171.7	716.6	464.5	420.3	410.5	393.6	373.0	353.4	350.1
40°	1586.3	1183.9	621.0	426.7	407.4	393.2	372.7	348.3	329.4	328.4
42.5°	1743.3	1160.5	519.7	400.7	394.7	375.7	354.0	332.5	317.6	317.2
45°	1875.1	1100.1	434.4	376.0	381.2	359.8	340.5	322.9	311.5	309.1
47.5°	1999.2	1014.6	374.7	350.1	367.5	351.1	334.8	318.2	307.1	305.5
50°	2143.1	922.4	332.8	324.7	355.8	348.0	339.5	322.3	303.7	301.7
52.5°	2317.4	842.6	300.0	302.4	346.7	352.0	351.7	333.8	301.4	298.7
55°	2512.0	754.1	275.4	284.2	342.9	359.5	354.8	344.6	303.4	299.3
57.5°	2703.6	650.7	258.1	270.3	337.5	358.9	340.2	325.7	308.1	302.4
60°	2847.2	511.9	245.0	258.1	325.7	347.7	324.4	305.0	307.1	302.7
62.5°	2856.6	395.7	229.0	247.7	307.8	336.6	313.8	295.9	311.5	307.5
65°	2688.7	299.0	213.9	235.2	288.6	329.4	303.7	290.9	320.6	316.2
67.5°	2263.7	240.6	201.0	222.3	269.2	314.6	294.6	286.1	328.8	321.0
70°	1634.3	205.1	188.5	206.7	252.1	297.7	286.5	277.7	306.8	294.6
72.5°	1006.2	177.7	174.3	186.2	238.9	280.1	274.4	261.9	276.4	266.6
75°	502.4	154.1	158.5	165.9	220.2	260.1	254.1	241.5	243.6	241.5
77.5°	240.6	131.8	139.8	145.6	196.3	237.5	231.1	218.3	215.8	216.3
80°	152.4	110.2	117.9	121.9	175.3	211.1	204.7	191.9	218.9	203.1
82.5°	95.2	89.5	91.6	99.0	152.7	183.8	175.3	163.9	197.3	156.1
85°	52.7	62.5	65.2	71.6	117.5	153.7	145.3	130.7	117.2	115.2
87.5°	31.4	37.1	38.2	42.9	79.1	111.2	98.3	93.3	77.3	77.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)