

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: P382735

Luminaire Tested: **GLEON-SA1A-735-U-T4FT**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382735  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA1A-735-U-T4FT  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4573 lumens  
Efficiency: N/A  
Efficacy: 134.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

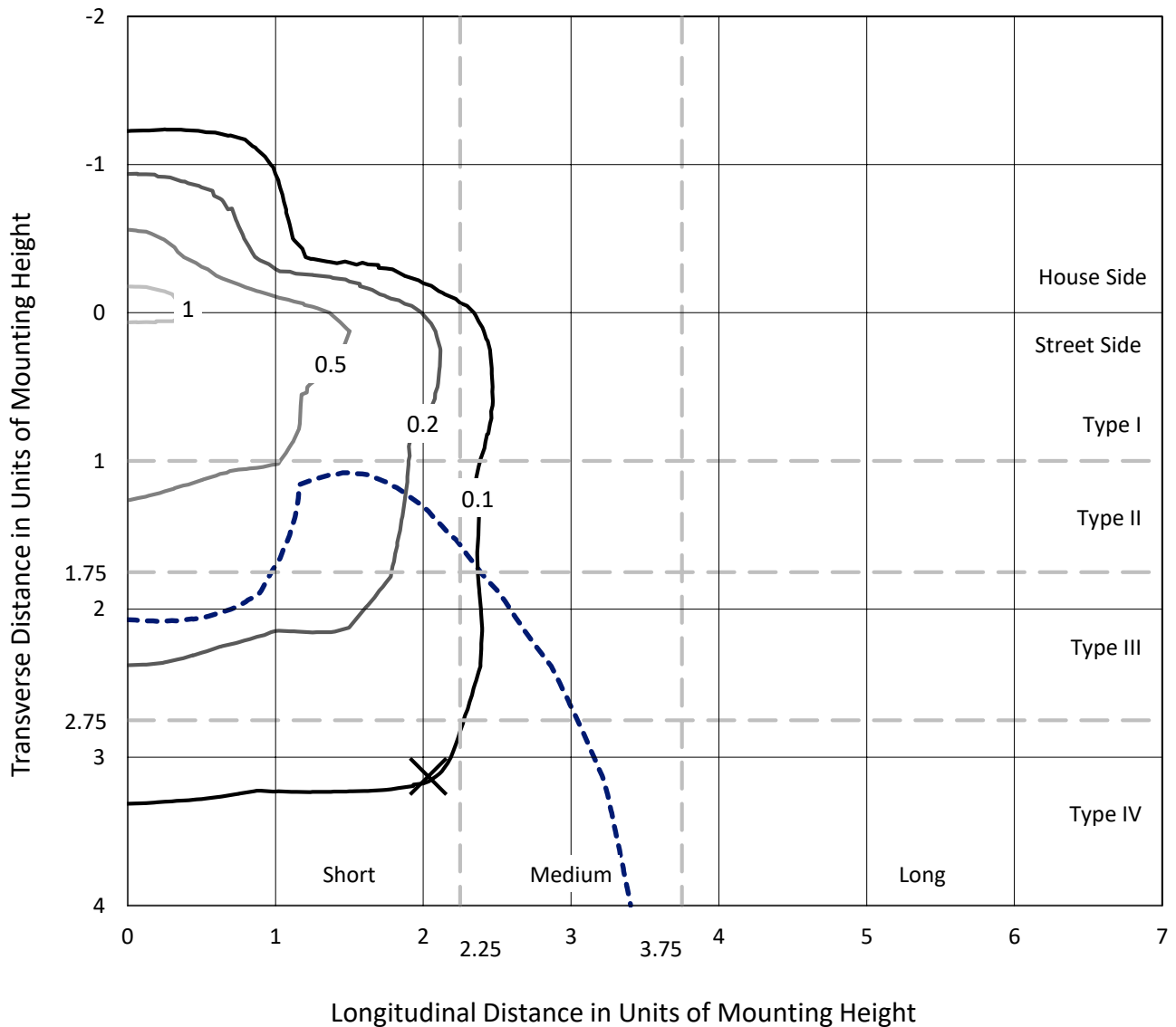
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

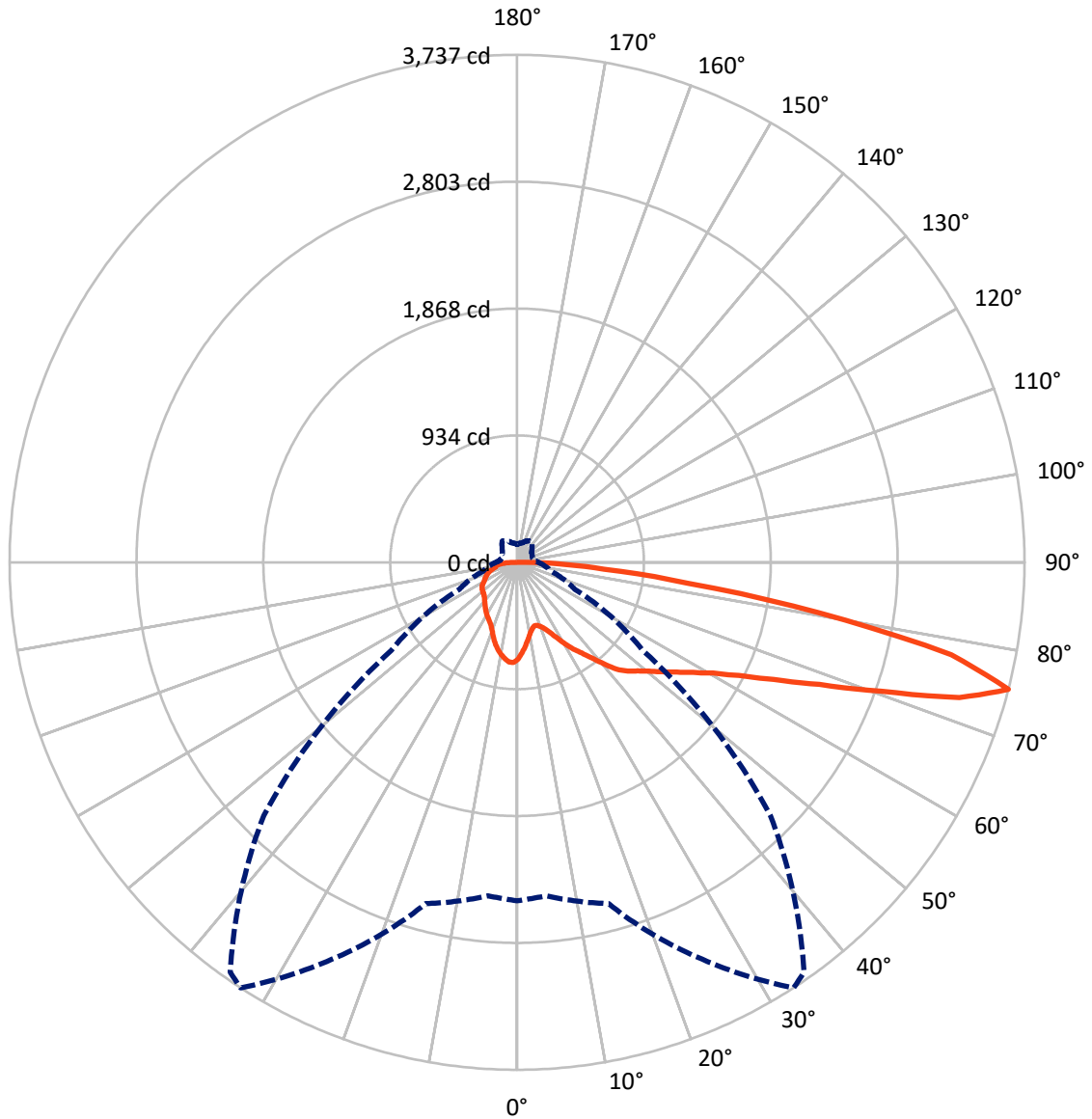
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	981.9	0.0	981.9
	% Fixture	21.5	0.0	21.5
<b>Street Side</b>	Lumens	3591.0	0.0	3591.0
	% Fixture	78.5	0.0	78.5
<b>Total</b>	Lumens	4573.0	0.0	4573.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	1.4
10°-20°	175.1	3.8
20°-30°	285.9	6.3
30°-40°	425.8	9.3
40°-50°	610.7	13.4
50°-60°	838.5	18.3
60°-70°	1049.7	23.0
70°-80°	949.6	20.8
80°-90°	173.0	3.8
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°	4573.0	100.0
0°-180°	4573.0	100.0

**Coefficient of Utilization**



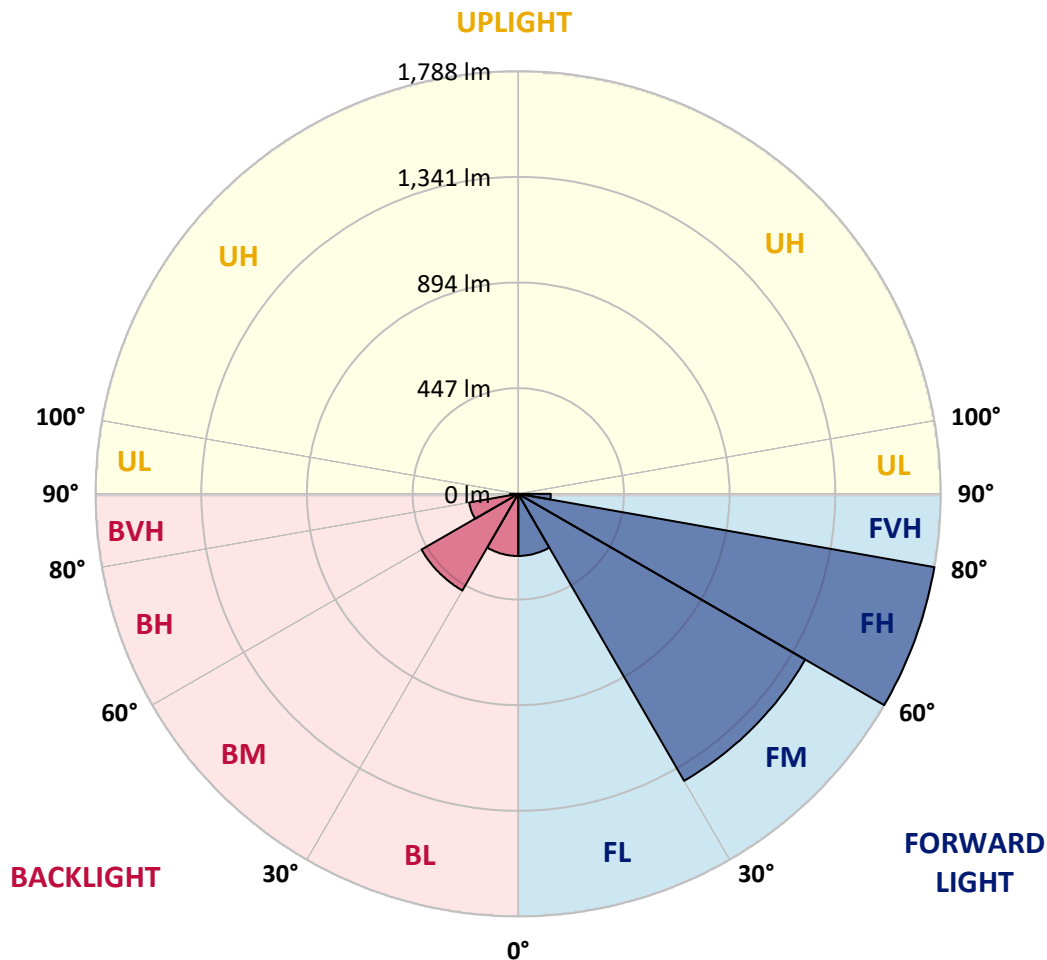
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.6	5.7			
FM (30°-60°)	1402.4	30.7			
FH (60°-80°)	1788.2	39.1			G1/1800
FVH (80°-90°)	137.8	3.0			G2/225
BL (0°-30°)	263.0	5.8	B1/500		
BM (30°-60°)	472.6	10.3	B1/1000		
BH (60°-80°)	211.1	4.6	B1/500		G1/500
BVH (80°-90°)	35.2	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8
2.5°	663.7	661.2	666.0	666.6	670.7	672.3	678.0	686.8	694.1	702.5	710.0
5°	603.5	601.9	608.5	613.2	622.2	626.0	639.4	658.2	675.0	693.9	711.1
7.5°	546.4	545.4	552.9	563.6	574.0	579.2	602.4	629.8	657.8	688.4	714.8
10°	498.2	497.9	505.0	515.6	530.9	536.8	566.8	602.8	641.9	684.1	720.9
12.5°	471.2	472.3	475.6	484.5	498.7	504.5	537.9	580.2	628.7	682.7	730.0
15°	477.8	479.6	473.9	473.6	483.7	488.2	519.5	564.1	619.2	685.1	743.1
17.5°	506.1	506.4	491.4	482.0	488.1	490.5	513.8	554.9	613.7	690.5	759.5
20°	545.9	545.1	518.6	502.8	506.1	506.8	521.9	555.1	613.2	699.8	780.8
22.5°	598.7	592.8	557.2	535.6	534.9	533.9	542.6	566.8	620.1	715.0	806.3
25°	667.5	662.1	612.9	583.5	577.2	574.9	576.1	591.7	633.9	731.2	834.7
27.5°	744.1	734.5	687.1	645.6	632.5	629.2	621.6	626.9	648.9	746.8	868.5
30°	808.3	803.1	761.7	712.4	696.9	692.2	672.3	666.4	670.5	768.2	911.1
32.5°	844.2	840.7	815.6	775.8	761.4	754.7	726.6	715.0	705.3	801.8	968.9
35°	887.6	885.3	870.3	841.3	819.9	813.1	791.3	779.1	754.3	848.1	1043.6
37.5°	942.9	940.5	940.9	917.5	892.0	885.5	871.2	858.3	817.8	908.9	1124.8
40°	1005.4	1000.9	999.1	998.0	981.9	978.2	970.7	953.3	897.4	981.6	1205.0
42.5°	1099.6	1083.3	1048.5	1061.7	1077.6	1075.8	1081.9	1056.9	985.9	1067.6	1283.1
45°	1190.4	1163.7	1103.7	1106.5	1141.4	1152.0	1198.2	1180.5	1081.7	1161.6	1364.0
47.5°	1231.8	1211.6	1160.5	1160.7	1195.3	1217.3	1318.3	1305.8	1182.5	1268.6	1462.7
50°	1278.1	1257.9	1212.0	1229.3	1259.5	1282.8	1434.5	1428.0	1278.4	1385.7	1581.0
52.5°	1328.7	1294.4	1265.3	1296.1	1338.4	1365.6	1550.7	1533.0	1366.4	1503.5	1717.0
55°	1329.2	1319.9	1342.1	1364.6	1428.0	1461.3	1672.5	1625.7	1438.1	1619.3	1827.8
57.5°	1405.0	1389.8	1436.6	1447.1	1529.9	1567.4	1793.7	1706.5	1511.1	1708.1	1887.5
60°	1505.1	1492.2	1530.5	1558.0	1655.9	1706.1	1923.0	1789.4	1568.4	1775.1	1884.6
62.5°	1678.0	1663.4	1662.9	1701.4	1833.3	1891.8	2068.2	1870.7	1591.2	1788.3	1804.2
65°	1931.3	1907.9	1863.8	1882.1	2078.3	2136.6	2230.4	1929.7	1561.2	1717.2	1597.1
67.5°	2177.7	2176.8	2122.7	2160.3	2401.8	2448.6	2415.2	1935.5	1467.5	1469.7	1229.7
70°	2423.3	2426.5	2417.3	2548.1	2838.9	2887.5	2612.1	1857.0	1256.9	1061.3	736.8
72.5°	2617.9	2617.1	2663.3	3000.5	3406.1	3395.2	2778.0	1619.1	902.5	572.9	352.1
75°	2491.9	2464.4	2601.8	3224.5	3736.7	3683.5	2636.8	1129.4	468.4	260.8	189.6
77.5°	1625.3	1651.4	1853.0	2663.8	3268.5	3203.8	1934.5	527.0	220.7	171.0	137.4
80°	588.6	616.0	867.6	1508.8	2251.9	2241.3	952.7	216.6	149.2	129.2	100.1
82.5°	202.5	212.6	342.3	670.1	1271.5	1318.8	358.5	123.1	108.5	91.7	68.6
85°	79.5	91.0	156.5	322.4	641.4	646.0	145.1	73.6	75.5	60.0	37.6
87.5°	30.2	36.6	74.9	149.8	292.9	269.0	52.0	35.0	42.9	35.7	17.9
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°	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8	714.8
2.5°	715.9	719.2	726.1	730.9	735.9	737.4	738.0	739.3	740.5	740.0	740.2
5°	720.3	726.8	738.0	742.7	745.0	742.4	737.5	733.6	730.7	729.1	728.7
7.5°	727.5	736.8	748.8	747.9	742.9	731.6	719.1	709.6	701.6	698.8	697.3
10°	737.2	747.9	756.3	747.3	732.7	713.2	694.3	679.6	667.7	663.2	662.3
12.5°	749.5	760.4	762.0	742.9	718.6	692.0	666.2	646.9	629.2	623.5	622.2
15°	765.5	775.8	765.9	735.2	701.2	665.5	632.1	605.8	587.2	580.2	577.7
17.5°	782.2	792.0	766.8	722.3	678.4	634.1	592.2	565.2	543.8	535.8	534.9
20°	802.2	806.7	763.4	704.1	647.1	593.3	549.2	523.8	512.4	506.8	506.1
22.5°	827.1	822.4	755.9	679.3	607.6	546.3	510.4	498.6	495.7	494.5	494.9
25°	853.3	838.8	744.7	646.9	557.4	499.1	482.0	485.2	489.1	488.6	488.6
27.5°	882.2	855.5	727.4	603.9	502.0	460.7	462.7	474.8	480.5	480.4	480.2
30°	919.3	874.4	705.5	552.2	450.2	433.4	445.9	460.7	468.5	468.2	468.4
32.5°	965.0	895.3	675.7	494.6	412.8	413.4	427.8	442.5	451.4	450.7	450.9
35°	1018.4	918.7	635.1	437.7	388.0	397.4	408.8	419.1	427.6	426.5	425.4
37.5°	1076.5	941.6	581.5	386.9	367.8	382.6	392.1	393.8	397.8	394.9	392.8
40°	1131.8	959.1	512.3	345.1	347.4	369.9	376.1	369.2	362.1	361.1	358.3
42.5°	1180.0	965.0	442.3	311.8	325.9	356.7	360.5	346.0	333.1	327.2	324.6
45°	1230.9	967.0	377.1	283.8	305.2	344.9	349.0	329.5	311.5	298.6	294.3
47.5°	1297.4	981.9	326.3	263.2	289.4	336.9	342.8	316.4	293.1	274.5	270.6
50°	1384.4	1011.3	285.1	247.3	279.1	331.7	338.3	303.6	277.9	255.6	251.6
52.5°	1481.1	1038.3	251.8	234.6	269.1	322.6	332.7	294.5	263.6	238.0	233.8
55°	1548.7	1017.6	225.0	221.3	256.2	309.5	324.7	286.7	243.2	221.0	217.2
57.5°	1561.6	946.8	204.6	207.5	240.6	293.1	312.6	269.5	232.2	213.6	209.6
60°	1526.2	848.3	189.4	194.9	223.9	272.3	289.9	257.3	221.6	205.7	202.3
62.5°	1437.3	747.3	178.2	183.5	208.2	251.3	275.6	244.5	210.9	196.6	193.4
65°	1257.7	627.4	167.4	173.5	193.7	233.2	262.9	232.7	200.3	189.4	186.2
67.5°	949.3	470.0	157.3	162.7	180.7	217.3	248.9	221.0	190.0	183.0	179.3
70°	559.0	294.3	145.8	151.5	167.1	200.9	234.1	208.2	177.3	174.1	169.2
72.5°	260.2	177.1	132.7	138.2	150.1	179.0	215.0	191.4	162.1	155.1	148.5
75°	155.3	129.5	117.2	122.1	130.5	155.6	191.0	174.4	147.7	138.5	131.6
77.5°	116.1	99.0	100.1	105.4	112.2	136.2	169.2	161.0	136.7	129.5	124.8
80°	83.6	75.2	81.7	87.4	94.5	123.8	162.1	148.8	123.5	114.0	109.6
82.5°	55.8	54.0	61.5	67.3	74.2	108.3	152.3	130.3	105.5	93.5	83.7
85°	30.8	32.5	41.4	43.9	49.9	76.3	124.8	104.7	79.5	64.0	61.1
87.5°	12.8	15.0	22.3	21.5	26.5	45.5	82.2	63.2	50.6	37.7	29.3
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)