

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: P192249

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192249  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6234 lumens  
Efficiency: N/A  
Efficacy: 105.7 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): 59  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

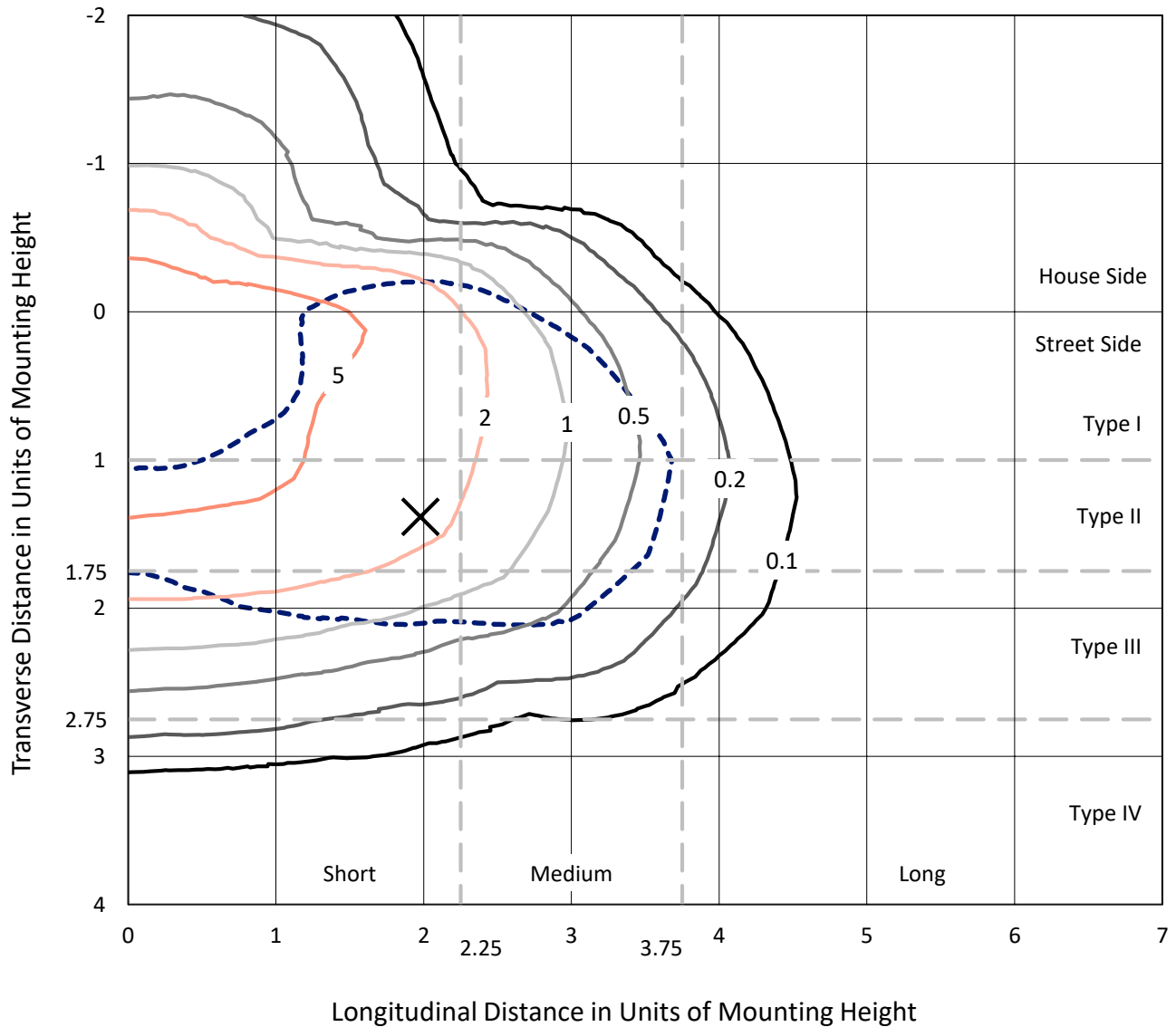


REPORT NUMBER: P192249

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-7050

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

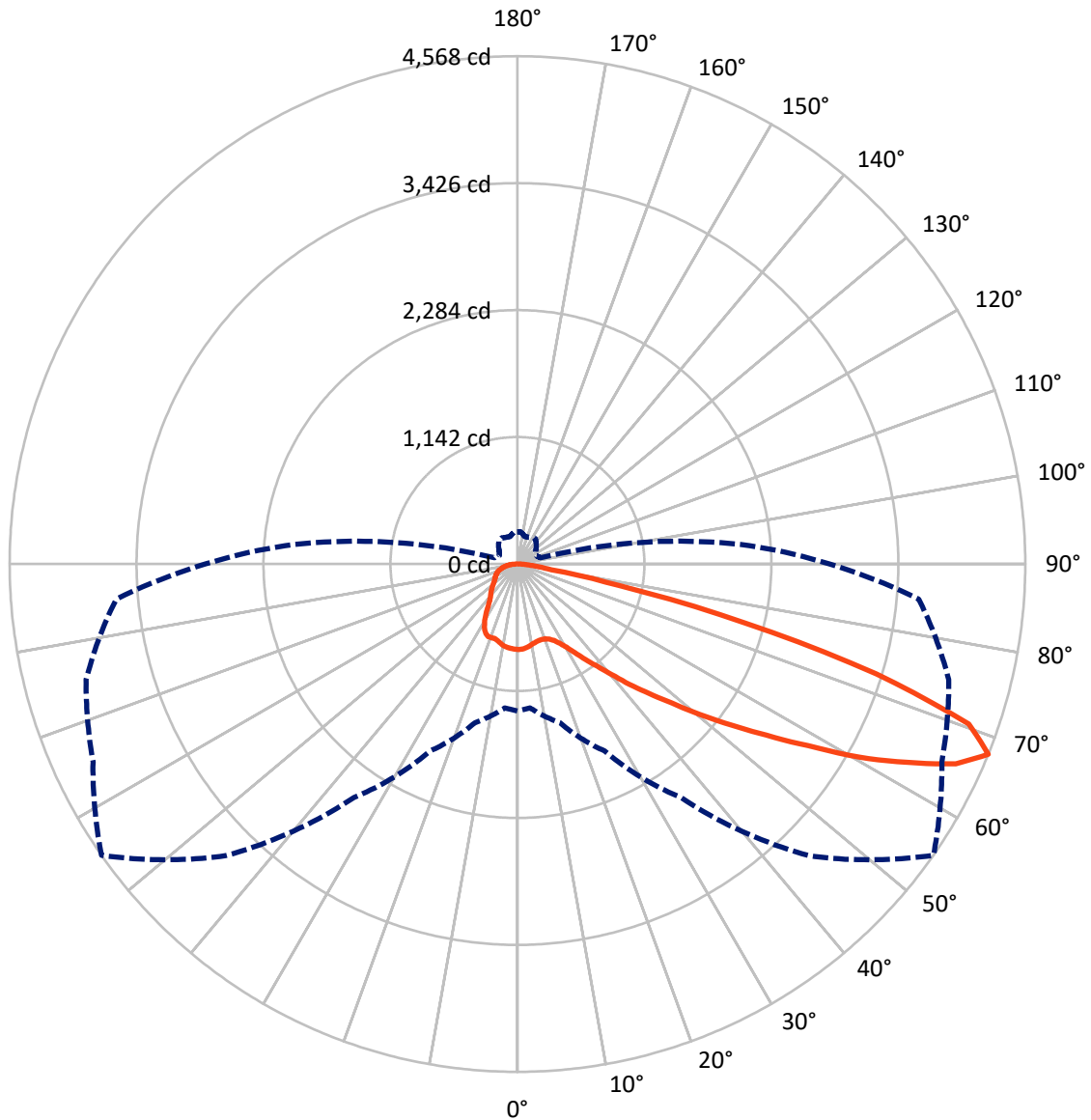


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc  
 Type III - Short - Full Cutoff

REPORT NUMBER: P192249

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-7050

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P192249

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-7050

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1346.7	0.0	1346.7
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	4887.3	0.0	4887.3
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	6234.0	0.0	6234.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.8	1.2
10°-20°	203.2	3.3
20°-30°	340.4	5.5
30°-40°	559.8	9.0
40°-50°	942.3	15.1
50°-60°	1483.1	23.8
60°-70°	1769.9	28.4
70°-80°	760.0	12.2
80°-90°	103.6	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°	6234.0	100.0
0°-180°	6234.0	100.0



REPORT NUMBER: P192249

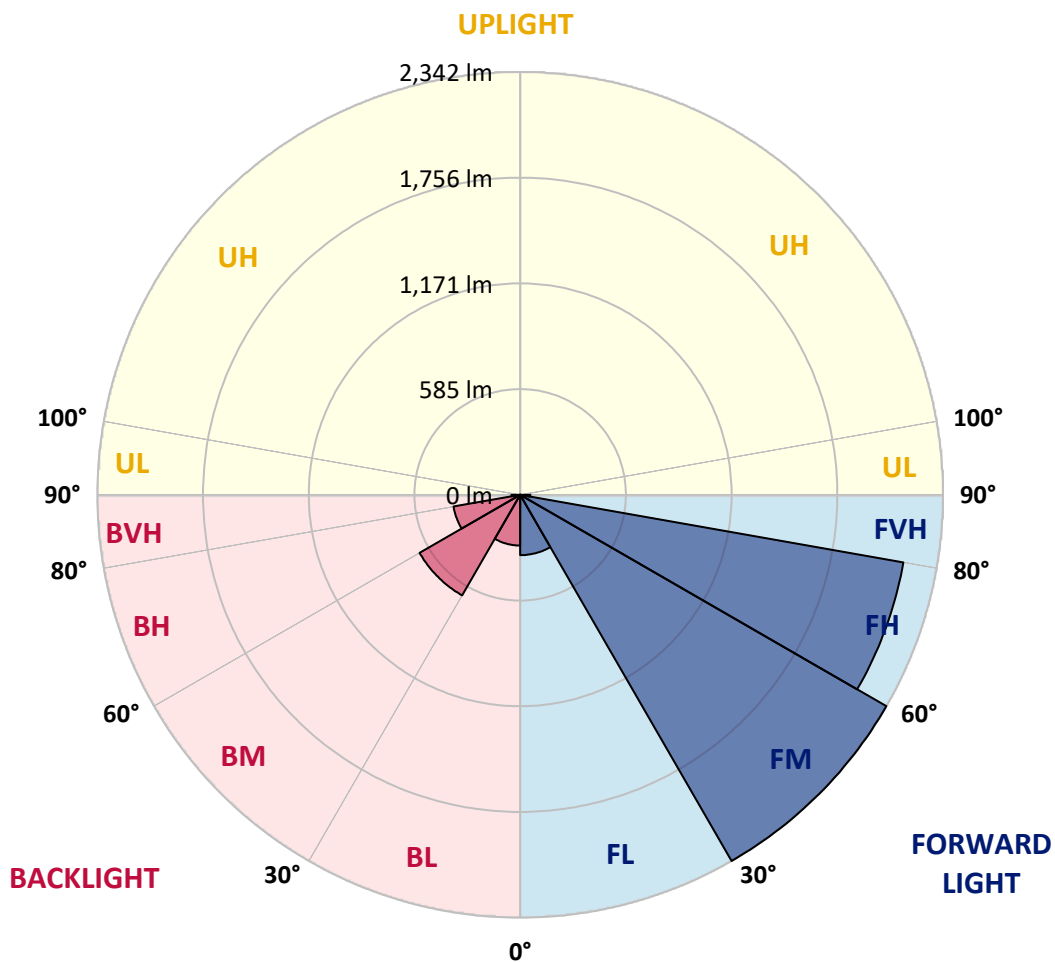
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	334.2	5.4			
FM	(30°-60°)	2341.9	37.6			
FH	(60°-80°)	2155.1	34.6			G2/5000
FVH	(80°-90°)	56.1	0.9			G1/100
BL	(0°-30°)	281.2	4.5	B1/500		
BM	(30°-60°)	643.2	10.3	B1/1000		
BH	(60°-80°)	374.8	6.0	B1/500		G1/500
BVH	(80°-90°)	47.5	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





REPORT NUMBER: P192249

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-7050

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7
2.5°	762.1	762.4	763.0	765.4	767.5	766.9	767.2	766.0	765.7	763.9	765.7
5°	752.5	753.4	753.7	757.6	760.0	760.6	759.7	758.2	756.4	754.6	755.5
7.5°	730.5	732.9	733.2	738.6	742.5	747.6	747.9	748.2	747.3	746.1	747.9
10°	716.6	717.2	716.9	720.8	723.9	729.6	732.9	738.6	741.0	741.6	742.8
12.5°	715.7	715.1	714.2	714.2	713.3	715.7	721.7	729.9	735.6	737.4	738.9
15°	725.4	725.1	722.0	717.5	711.8	710.0	715.1	724.2	731.7	735.6	737.1
17.5°	747.0	745.2	740.4	730.2	717.8	713.0	713.6	721.1	729.9	735.0	736.5
20°	786.8	786.8	776.5	757.3	735.3	723.9	718.4	723.0	731.4	738.3	740.4
22.5°	855.4	856.0	838.9	807.3	770.2	745.8	732.3	731.4	741.3	749.1	751.6
25°	952.7	950.3	926.2	881.0	824.7	784.4	760.9	755.5	763.9	772.6	775.6
27.5°	1065.9	1057.2	1028.6	974.1	901.2	842.2	806.1	797.3	805.5	815.4	818.4
30°	1177.9	1168.9	1134.9	1075.2	994.2	919.6	867.8	853.6	865.1	879.2	881.0
32.5°	1289.9	1289.9	1252.0	1182.4	1094.2	1012.0	950.0	933.1	952.1	969.3	973.2
35°	1423.9	1424.5	1387.8	1304.1	1209.2	1122.2	1053.9	1041.5	1070.1	1082.2	1091.5
37.5°	1588.6	1591.9	1544.7	1443.5	1339.6	1248.1	1166.8	1149.9	1178.5	1211.3	1241.5
40°	1766.6	1770.8	1718.7	1594.0	1490.2	1394.4	1306.5	1276.1	1323.7	1386.3	1425.1
42.5°	1936.4	1958.1	1907.8	1779.5	1667.8	1568.8	1479.6	1435.4	1495.0	1589.5	1623.3
45°	2181.8	2197.5	2109.8	1993.6	1888.5	1777.7	1659.7	1613.0	1696.4	1815.7	1822.6
47.5°	2345.3	2333.6	2289.0	2216.7	2150.2	2046.6	1869.0	1817.8	1928.6	2068.9	2030.0
50°	2432.3	2435.9	2429.9	2434.1	2436.5	2371.5	2125.5	2055.3	2187.5	2357.0	2267.6
52.5°	2513.6	2489.5	2509.4	2608.2	2727.4	2703.3	2404.6	2331.5	2465.1	2676.8	2518.7
55°	2511.8	2475.1	2539.8	2714.2	2972.8	3000.5	2718.1	2633.8	2758.7	3019.8	2784.9
57.5°	2423.0	2424.8	2524.5	2752.7	3143.8	3279.9	3081.8	2955.3	3070.1	3367.3	3027.9
60°	2300.7	2317.3	2460.9	2746.4	3280.8	3509.1	3528.0	3301.9	3375.1	3683.1	3229.0
62.5°	2103.5	2121.0	2319.1	2680.7	3260.1	3729.8	3931.5	3695.2	3694.0	3874.6	3288.1
65°	1792.5	1787.4	1995.4	2435.3	3085.7	3893.0	4332.3	4035.1	3934.2	3877.6	3169.4
67.5°	1321.8	1299.0	1477.5	1854.8	2564.8	3710.2	4568.1	4212.2	4016.1	3622.6	2806.9
70°	685.9	663.0	807.6	1083.1	1686.8	2895.7	4307.0	4120.6	3835.2	3036.6	2199.0
72.5°	293.3	289.4	348.1	475.1	816.0	1670.2	3377.2	3566.6	3290.8	2262.5	1511.8
75°	197.2	196.0	218.0	259.0	367.0	677.8	2113.5	2531.7	2407.6	1402.8	850.3
77.5°	154.8	153.3	166.2	186.1	237.9	267.4	937.9	1359.2	1258.0	610.6	372.2
80°	121.0	119.8	128.0	138.8	171.0	168.6	308.6	540.8	418.5	234.0	181.0
82.5°	95.5	95.5	102.1	102.4	121.3	115.0	161.1	238.2	209.0	136.4	110.8
85°	87.3	87.3	94.2	76.5	79.2	72.6	100.0	141.2	132.5	56.0	48.2
87.5°	44.0	42.8	79.2	67.7	43.1	38.5	48.8	68.4	73.5	31.0	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192249

CATALOG NUMBER: GLEON-AF-01-LED-E1-T3-7050

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7	768.7
2.5°	765.1	764.8	765.4	765.7	768.1	771.4	772.9	775.0	776.2	775.6
5°	756.1	756.7	759.1	760.9	765.1	770.5	773.5	775.9	778.1	777.2
7.5°	748.5	750.1	753.7	755.2	757.6	759.1	758.8	759.7	761.5	759.4
10°	744.3	746.1	748.8	746.7	741.0	732.9	725.4	721.4	722.7	721.1
12.5°	740.1	742.5	740.4	730.5	714.5	704.0	698.3	698.9	701.6	702.2
15°	737.7	738.6	729.6	710.9	694.6	693.1	696.2	695.6	695.9	695.9
17.5°	737.7	735.3	718.4	699.8	692.8	690.1	680.8	669.1	663.9	662.1
20°	741.6	735.3	714.8	702.5	687.4	664.2	639.5	617.9	608.2	605.5
22.5°	753.4	742.5	725.1	703.7	660.9	622.1	582.9	557.0	539.6	536.6
25°	777.2	765.1	745.2	687.7	618.8	563.4	518.8	489.9	472.4	470.0
27.5°	818.7	810.9	756.1	652.5	562.8	503.4	462.2	439.9	427.0	426.1
30°	881.3	877.4	750.7	600.4	493.8	445.3	425.5	412.5	402.9	402.6
32.5°	981.3	949.7	732.9	536.9	430.9	404.1	396.0	388.1	380.6	380.6
35°	1109.9	1008.1	699.2	468.8	392.6	381.2	371.0	358.6	348.7	348.1
37.5°	1261.0	1044.2	638.6	414.0	374.6	365.8	350.8	332.4	315.0	311.9
40°	1413.7	1055.1	553.4	380.3	363.1	350.5	332.1	310.4	293.6	292.7
42.5°	1553.7	1034.3	463.1	357.1	351.7	334.8	315.6	296.3	283.0	282.7
45°	1671.1	980.4	387.2	335.1	339.6	320.7	303.5	287.9	277.6	275.5
47.5°	1781.6	904.2	333.9	311.9	327.6	312.8	298.4	283.6	273.7	272.2
50°	1909.9	822.0	296.6	289.4	317.1	310.1	302.6	287.3	270.7	268.9
52.5°	2065.3	751.0	267.4	269.5	308.9	313.8	313.4	297.5	268.6	266.2
55°	2238.7	672.1	245.4	253.2	305.6	320.4	316.2	307.1	270.4	266.8
57.5°	2409.4	579.9	230.0	240.9	300.8	319.8	303.2	290.3	274.6	269.5
60°	2537.4	456.2	218.3	230.0	290.3	309.8	289.1	271.9	273.7	269.8
62.5°	2545.8	352.6	204.1	220.7	274.3	299.9	279.7	263.8	277.6	274.0
65°	2396.2	266.5	190.6	209.6	257.1	293.6	270.7	259.3	285.7	281.8
67.5°	2017.4	214.4	179.2	198.1	240.0	280.3	262.6	255.0	293.0	286.0
70°	1456.4	182.8	168.0	184.3	224.6	265.3	255.3	247.5	273.4	262.6
72.5°	896.7	158.4	155.4	165.9	212.9	249.6	244.5	233.4	246.3	237.6
75°	447.7	137.3	141.2	147.8	196.3	231.9	226.4	215.3	217.1	215.3
77.5°	214.4	117.4	124.7	129.8	174.9	211.7	206.0	194.5	192.4	192.7
80°	135.8	98.2	105.1	108.7	156.3	188.2	182.5	171.0	195.1	181.0
82.5°	84.9	79.8	81.6	88.2	136.1	163.8	156.3	146.0	175.8	139.1
85°	47.0	55.7	58.1	63.8	104.8	137.0	129.5	116.5	104.5	102.7
87.5°	28.0	33.1	34.0	38.2	70.5	99.1	87.6	83.1	69.0	68.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)