

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: P191449

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191449  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6377.1 lumens  
Efficiency: N/A  
Efficacy: 108.1 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): 59  
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

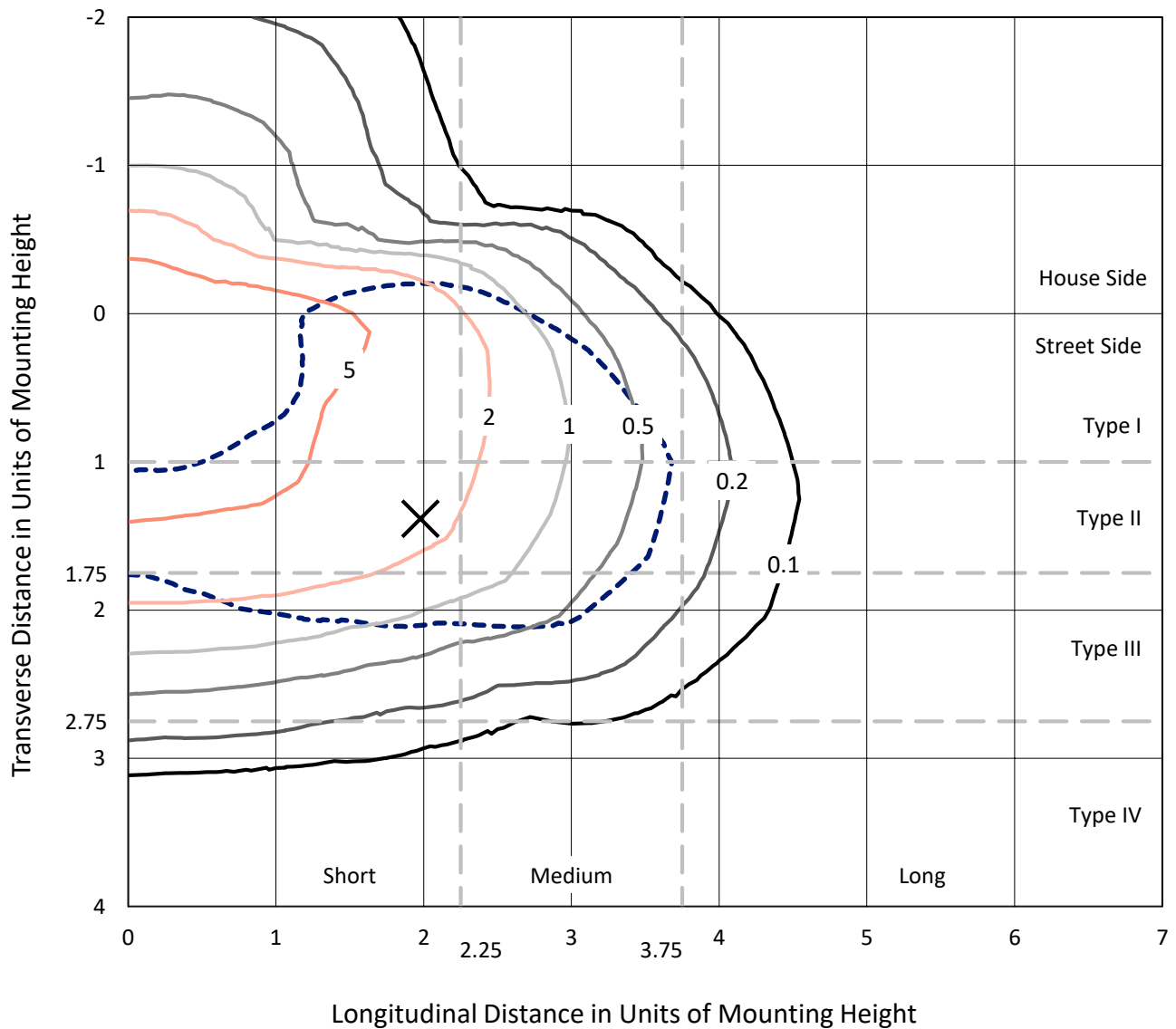


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

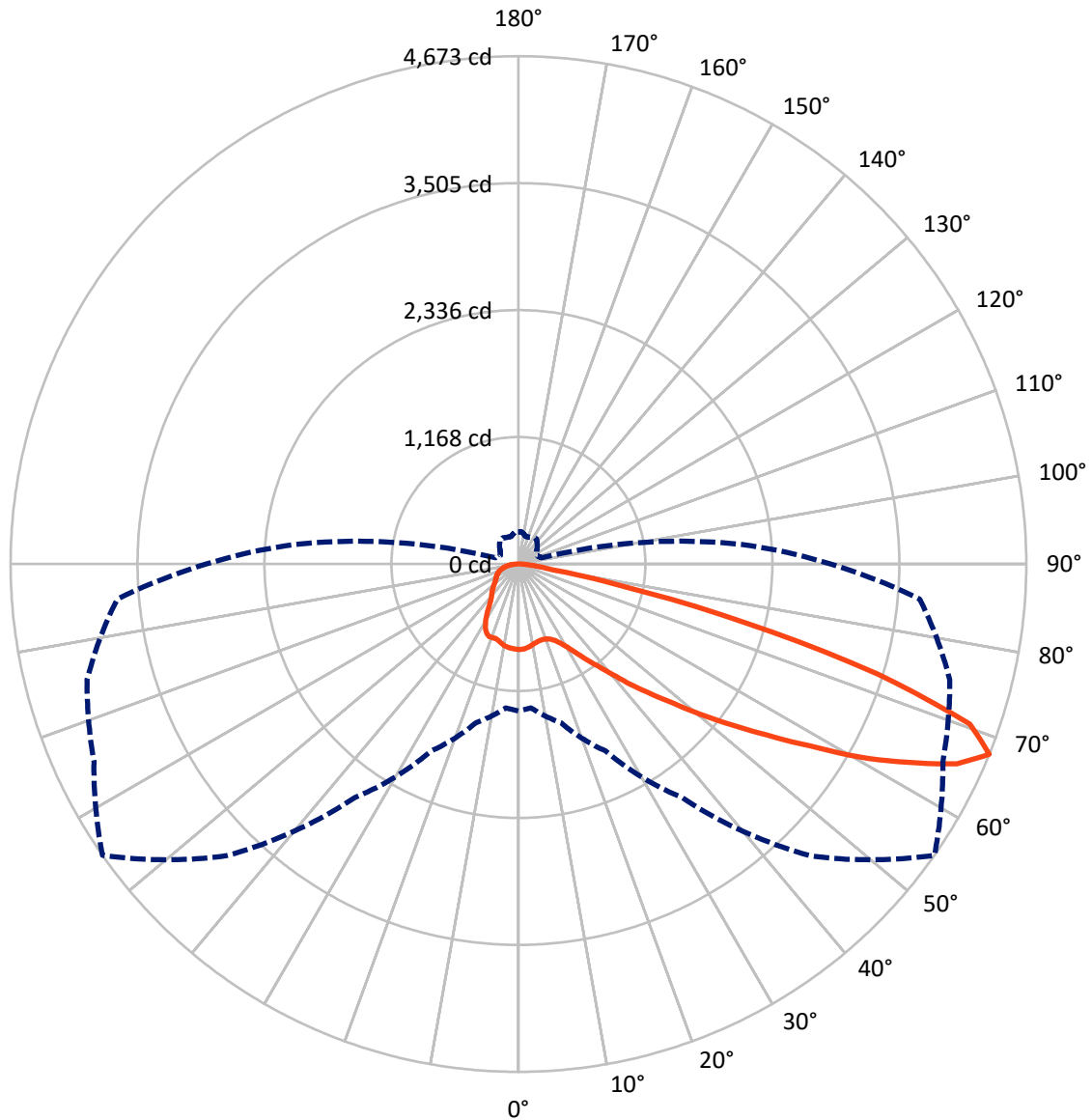


Based on 10 foot mounting height. Maximum calculated value = 8.1 fc  
 Type III - Short - Full Cutoff

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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	1377.6	0.0	1377.6
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	4999.5	0.0	4999.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	6377.1	0.0	6377.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.4	1.2
10°-20°	207.9	3.3
20°-30°	348.2	5.5
30°-40°	572.6	9.0
40°-50°	963.9	15.1
50°-60°	1517.1	23.8
60°-70°	1810.5	28.4
70°-80°	777.5	12.2
80°-90°	106.0	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°	6377.1	100.0
0°-180°	6377.1	100.0



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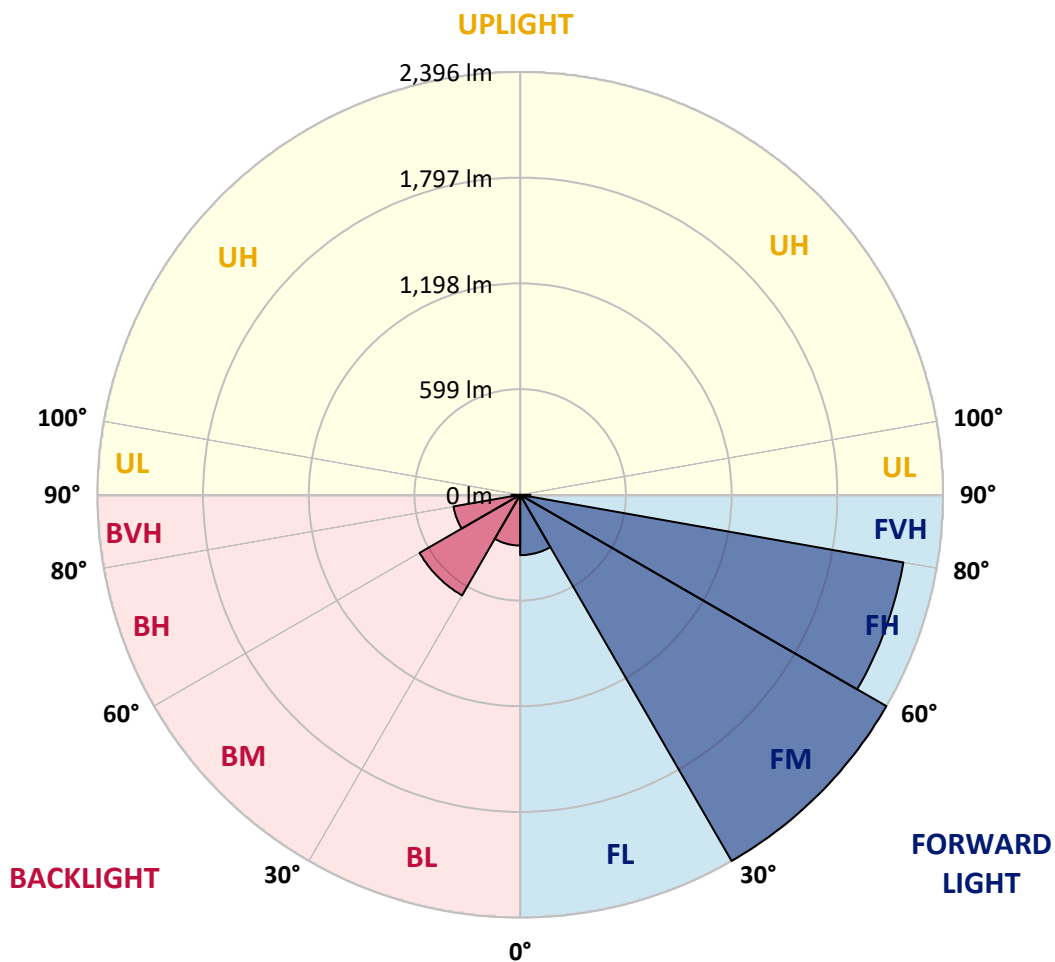
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.8	5.4			
FM (30°-60°)	2395.7	37.6			
FH (60°-80°)	2204.6	34.6			G2/5000
FVH (80°-90°)	57.4	0.9			G1/100
BL (0°-30°)	287.7	4.5	B1/500		
BM (30°-60°)	657.9	10.3	B1/1000		
BH (60°-80°)	383.4	6.0	B1/500		G1/500
BVH (80°-90°)	48.6	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°	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3
2.5°	779.6	779.9	780.5	783.0	785.1	784.5	784.8	783.6	783.3	781.4	783.3
5°	769.8	770.7	771.0	775.0	777.4	778.1	777.1	775.6	773.8	771.9	772.8
7.5°	747.3	749.7	750.0	755.6	759.5	764.8	765.1	765.4	764.5	763.2	765.1
10°	733.0	733.7	733.4	737.3	740.5	746.3	749.7	755.6	758.0	758.6	759.8
12.5°	732.1	731.5	730.6	730.6	729.7	732.1	738.3	746.7	752.5	754.3	755.9
15°	742.0	741.7	738.6	734.0	728.1	726.3	731.5	740.8	748.5	752.5	754.0
17.5°	764.1	762.3	757.4	747.0	734.3	729.4	730.0	737.6	746.7	751.9	753.4
20°	804.9	804.9	794.3	774.7	752.2	740.5	734.9	739.6	748.2	755.2	757.4
22.5°	875.0	875.6	858.2	825.8	787.9	762.9	749.1	748.2	758.3	766.3	768.8
25°	974.6	972.1	947.5	901.2	843.6	802.4	778.4	772.8	781.4	790.3	793.4
27.5°	1090.4	1081.5	1052.2	996.5	921.9	861.5	824.6	815.6	824.0	834.1	837.2
30°	1204.9	1195.7	1160.9	1099.9	1017.0	940.7	887.7	873.2	885.0	899.4	901.2
32.5°	1319.5	1319.5	1280.7	1209.5	1119.3	1035.2	971.8	954.5	974.0	991.5	995.5
35°	1456.6	1457.2	1419.7	1334.0	1237.0	1148.0	1078.1	1065.4	1094.7	1107.0	1116.6
37.5°	1625.1	1628.4	1580.2	1476.6	1370.3	1276.7	1193.6	1176.3	1205.5	1239.1	1270.0
40°	1807.1	1811.4	1758.1	1630.6	1524.4	1426.4	1336.5	1305.4	1354.1	1418.1	1457.8
42.5°	1980.8	2003.0	1951.6	1820.3	1706.1	1604.8	1513.6	1468.3	1529.3	1626.0	1660.6
45°	2231.9	2247.9	2158.2	2039.4	1931.8	1818.5	1697.8	1650.0	1735.3	1857.4	1864.4
47.5°	2399.1	2387.2	2341.5	2267.6	2199.5	2093.6	1911.9	1859.5	1972.9	2116.4	2076.6
50°	2488.1	2491.8	2485.7	2490.0	2492.4	2425.9	2174.3	2102.5	2237.7	2411.1	2319.6
52.5°	2571.3	2546.6	2567.0	2668.1	2790.0	2765.3	2459.8	2385.0	2521.7	2738.2	2576.5
55°	2569.4	2531.9	2598.1	2776.5	3041.0	3069.4	2780.5	2694.2	2822.0	3089.1	2848.8
57.5°	2478.6	2480.5	2582.4	2815.9	3216.0	3355.2	3152.5	3023.1	3140.6	3444.6	3097.4
60°	2353.5	2370.5	2517.4	2809.4	3356.1	3589.6	3609.0	3377.7	3452.6	3767.6	3303.1
62.5°	2151.8	2169.7	2372.3	2742.2	3334.9	3815.4	4021.7	3780.0	3778.8	3963.5	3363.6
65°	1833.6	1828.4	2041.2	2491.2	3156.5	3982.3	4431.7	4127.7	4024.5	3966.6	3242.1
67.5°	1352.1	1328.8	1511.4	1897.4	2623.7	3795.4	4672.9	4308.9	4108.3	3705.7	2871.3
70°	701.6	678.2	826.1	1108.0	1725.5	2962.2	4405.8	4215.2	3923.2	3106.3	2249.5
72.5°	300.0	296.0	356.1	486.0	834.7	1708.5	3454.7	3648.5	3366.3	2314.4	1546.5
75°	201.7	200.5	223.0	264.9	375.4	693.4	2162.0	2589.8	2462.9	1435.0	869.8
77.5°	158.4	156.8	170.0	190.4	243.4	273.5	959.4	1390.4	1286.9	624.6	380.7
80°	123.8	122.5	130.9	142.0	174.9	172.5	315.7	553.2	428.1	239.4	185.2
82.5°	97.7	97.7	104.4	104.8	124.1	117.6	164.8	243.7	213.8	139.5	113.3
85°	89.3	89.3	96.4	78.3	81.0	74.3	102.3	144.4	135.5	57.3	49.3
87.5°	45.0	43.8	81.0	69.3	44.1	39.4	49.9	70.0	75.2	31.7	24.7
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°	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3	786.3
2.5°	782.7	782.4	783.0	783.3	785.7	789.1	790.6	792.8	794.0	793.4
5°	773.5	774.1	776.5	778.4	782.7	788.2	791.3	793.7	796.0	795.0
7.5°	765.7	767.3	771.0	772.5	775.0	776.5	776.2	777.1	779.0	776.8
10°	761.4	763.2	766.0	763.8	758.0	749.7	742.0	738.0	739.3	737.6
12.5°	757.1	759.5	757.4	747.3	730.9	720.2	714.3	714.9	717.7	718.3
15°	754.6	755.6	746.3	727.2	710.5	709.0	712.2	711.6	711.9	711.9
17.5°	754.6	752.2	734.9	715.9	708.7	705.9	696.4	684.5	679.1	677.3
20°	758.6	752.2	731.2	718.6	703.2	679.4	654.2	632.1	622.2	619.4
22.5°	770.7	759.5	741.7	719.9	676.1	636.4	596.3	569.8	552.0	548.9
25°	795.0	782.7	762.3	703.5	633.0	576.3	530.7	501.1	483.2	480.8
27.5°	837.5	829.5	773.5	667.5	575.7	515.0	472.8	450.0	436.8	435.9
30°	901.5	897.5	767.9	614.2	505.1	455.5	435.3	422.0	412.1	411.8
32.5°	1003.8	971.5	749.7	549.2	440.8	413.4	405.1	397.0	389.3	389.3
35°	1135.4	1031.2	715.2	479.6	401.6	389.9	379.5	366.8	356.7	356.1
37.5°	1289.9	1068.2	653.3	423.5	383.2	374.2	358.9	340.0	322.2	319.1
40°	1446.1	1079.3	566.1	389.0	371.4	358.5	339.7	317.5	300.3	299.4
42.5°	1589.4	1058.0	473.7	365.3	359.8	342.5	322.8	303.1	289.5	289.2
45°	1709.5	1002.9	396.1	342.8	347.4	328.1	310.5	294.5	284.0	281.8
47.5°	1822.5	925.0	341.6	319.1	335.1	320.0	305.2	290.1	280.0	278.4
50°	1953.7	840.9	303.4	296.0	324.4	317.2	309.5	293.9	276.9	275.1
52.5°	2112.7	768.2	273.5	275.7	316.0	321.0	320.6	304.3	274.8	272.3
55°	2290.1	687.5	251.0	259.0	312.6	327.8	323.5	314.1	276.6	272.9
57.5°	2464.7	593.2	235.3	246.4	307.7	327.1	310.2	297.0	280.9	275.7
60°	2595.6	466.7	223.3	235.3	297.0	316.9	295.7	278.1	280.0	276.0
62.5°	2604.2	360.7	208.8	225.8	280.6	306.8	286.1	269.9	284.0	280.3
65°	2451.2	272.6	195.0	214.4	263.0	300.3	276.9	265.3	292.3	288.3
67.5°	2063.7	219.3	183.3	202.6	245.5	286.7	268.6	260.9	299.7	292.6
70°	1489.8	187.0	171.9	188.5	229.8	271.4	261.2	253.2	279.7	268.6
72.5°	917.3	162.0	159.0	169.7	217.8	255.3	250.1	238.8	252.0	243.1
75°	458.0	140.5	144.4	151.2	200.8	237.2	231.6	220.2	222.1	220.2
77.5°	219.3	120.1	127.6	132.8	178.9	216.6	210.7	199.0	196.8	197.1
80°	138.9	100.5	107.5	111.2	159.9	192.5	186.7	174.9	199.6	185.2
82.5°	86.8	81.6	83.5	90.2	139.2	167.6	159.9	149.4	179.8	142.3
85°	48.1	57.0	59.4	65.3	107.2	140.1	132.5	119.2	106.9	105.1
87.5°	28.6	33.9	34.8	39.1	72.1	101.4	89.6	85.0	70.6	70.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)