

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: P193999

Luminaire Tested: **GLEON-AF-01-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193999  
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-T3-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5580 lumens  
Efficiency: N/A  
Efficacy: 83.3 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

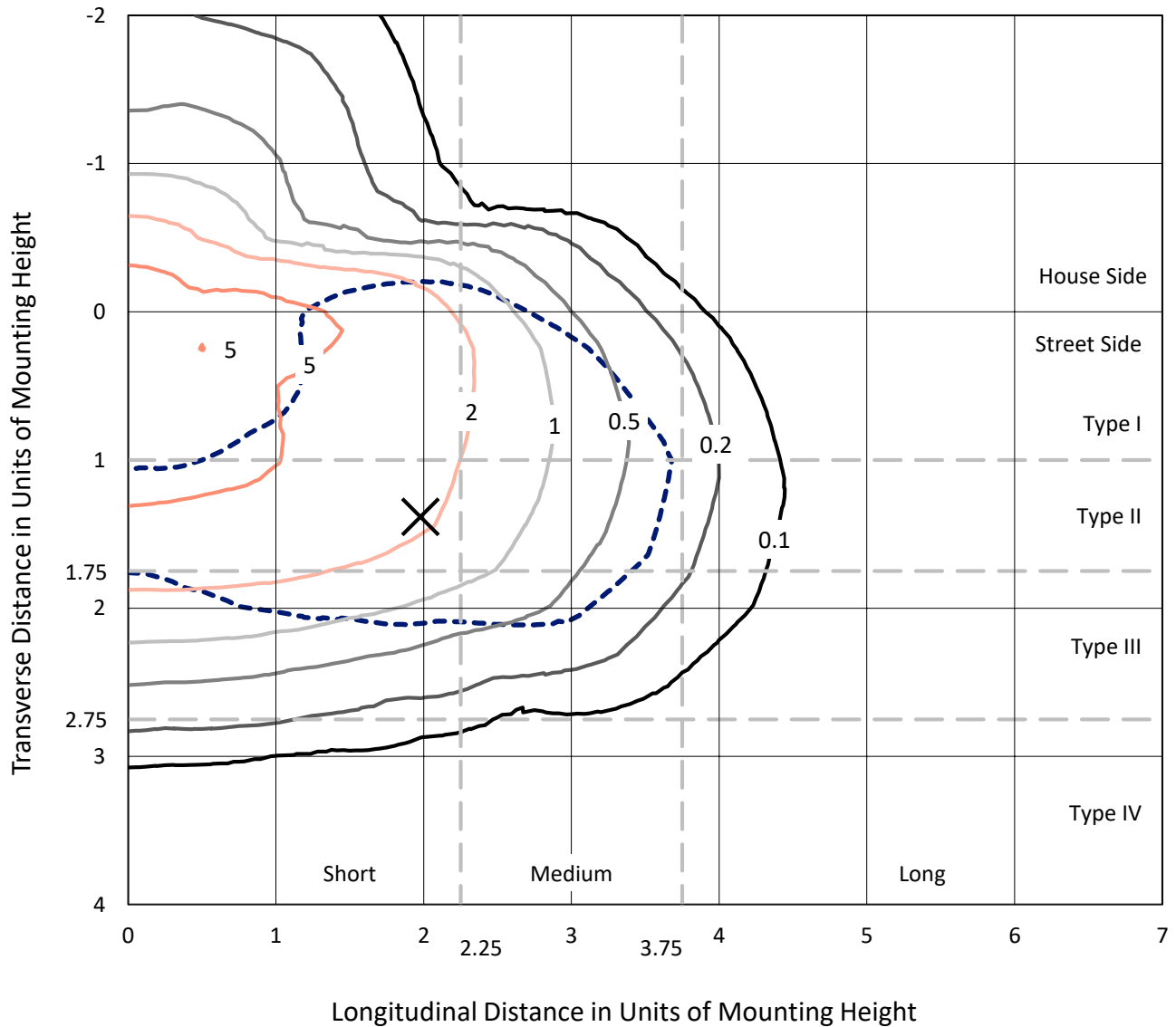


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### Iso-Footcandle Lines of Horizontal Illumination

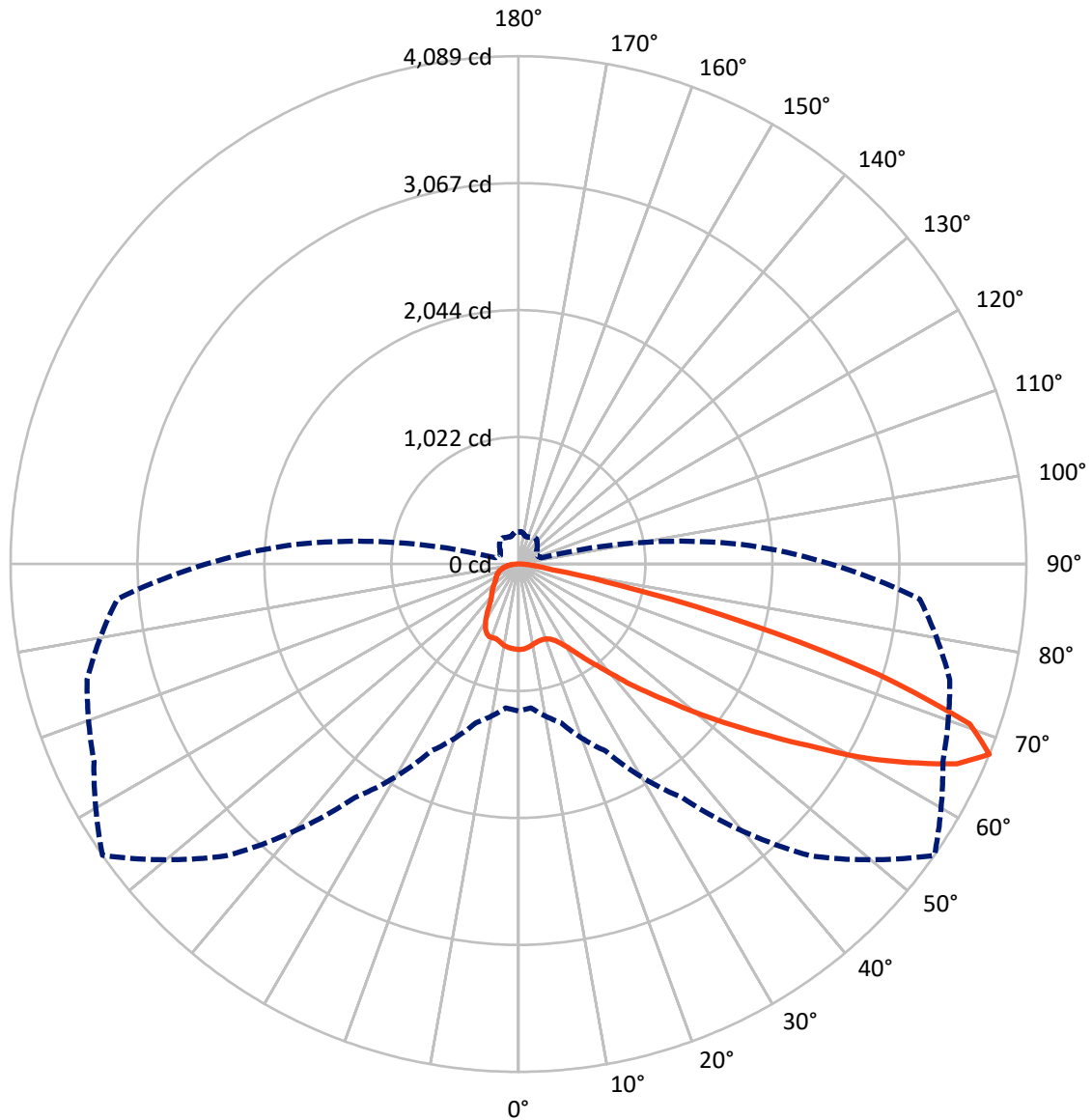
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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	1205.4	0.0	1205.4
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	4374.6	0.0	4374.6
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	5580.0	0.0	5580.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.2	1.2
10°-20°	181.9	3.3
20°-30°	304.7	5.5
30°-40°	501.0	9.0
40°-50°	843.4	15.1
50°-60°	1327.5	23.8
60°-70°	1584.2	28.4
70°-80°	680.3	12.2
80°-90°	92.8	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°	5580.0	100.0
0°-180°	5580.0	100.0



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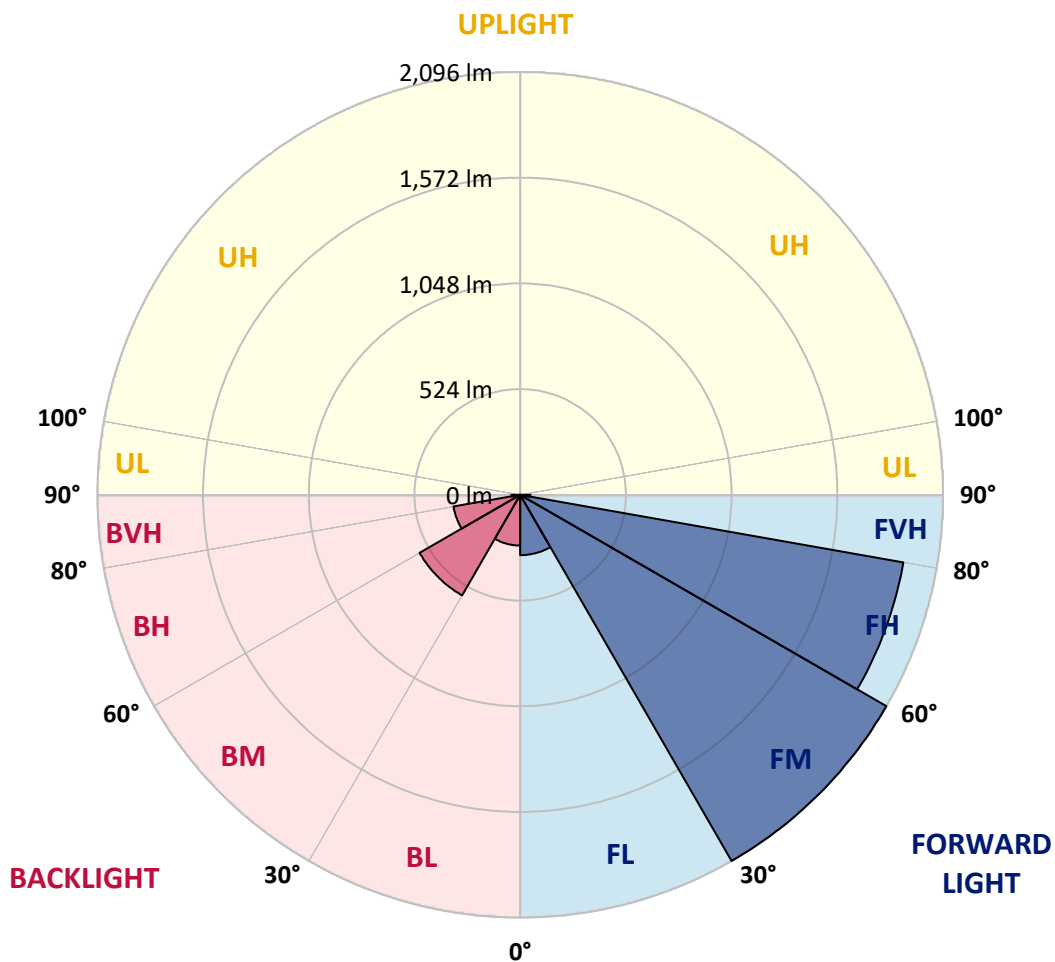
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.1	5.4			
FM (30°-60°)	2096.3	37.6			
FH (60°-80°)	1929.0	34.6			G2/5000
FVH (80°-90°)	50.2	0.9			G1/100
BL (0°-30°)	251.7	4.5	B1/500		
BM (30°-60°)	575.7	10.3	B1/1000		
BH (60°-80°)	335.5	6.0	B1/500		G1/500
BVH (80°-90°)	42.5	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	682.1	682.4	683.0	685.1	687.0	686.5	686.7	685.6	685.4	683.8	685.4
5°	673.5	674.3	674.6	678.1	680.3	680.8	680.0	678.6	677.0	675.4	676.2
7.5°	653.8	656.0	656.3	661.1	664.6	669.2	669.5	669.7	668.9	667.9	669.5
10°	641.4	642.0	641.7	645.2	647.9	653.0	656.0	661.1	663.3	663.8	664.9
12.5°	640.6	640.1	639.3	639.3	638.5	640.6	646.0	653.3	658.4	660.0	661.4
15°	649.3	649.0	646.3	642.3	637.1	635.5	640.1	648.2	654.9	658.4	659.8
17.5°	668.7	667.1	662.7	653.6	642.5	638.2	638.8	645.5	653.3	657.9	659.2
20°	704.2	704.2	695.1	677.8	658.2	647.9	643.1	647.1	654.7	660.9	662.7
22.5°	765.7	766.2	750.9	722.6	689.4	667.6	655.5	654.7	663.5	670.6	672.7
25°	852.7	850.6	829.0	788.6	738.2	702.1	681.1	676.2	683.8	691.6	694.3
27.5°	954.1	946.3	920.7	871.9	806.7	753.8	721.5	713.7	721.0	729.8	732.5
30°	1054.3	1046.3	1015.8	962.4	889.9	823.1	776.7	764.1	774.3	787.0	788.6
32.5°	1154.6	1154.6	1120.6	1058.4	979.4	905.8	850.3	835.2	852.2	867.6	871.1
35°	1274.5	1275.1	1242.2	1167.3	1082.4	1004.5	943.3	932.3	957.9	968.6	977.0
37.5°	1422.0	1424.9	1382.6	1292.1	1199.1	1117.1	1044.4	1029.3	1054.9	1084.3	1111.2
40°	1581.3	1585.0	1538.4	1426.8	1333.8	1248.1	1169.4	1142.2	1184.8	1240.9	1275.6
42.5°	1733.3	1752.7	1707.7	1592.8	1492.9	1404.2	1324.4	1284.8	1338.1	1422.8	1453.0
45°	1952.9	1966.9	1888.5	1784.5	1690.4	1591.2	1485.6	1443.8	1518.5	1625.2	1631.4
47.5°	2099.3	2088.8	2048.9	1984.2	1924.6	1831.9	1672.9	1627.1	1726.3	1851.8	1817.1
50°	2177.2	2180.4	2175.0	2178.8	2180.9	2122.7	1902.5	1839.7	1958.0	2109.8	2029.7
52.5°	2249.9	2228.4	2246.1	2334.5	2441.3	2419.7	2152.4	2086.9	2206.5	2396.0	2254.5
55°	2248.3	2215.4	2273.4	2429.4	2660.9	2685.7	2432.9	2357.5	2469.3	2703.0	2492.8
57.5°	2168.8	2170.4	2259.6	2463.9	2814.0	2935.8	2758.5	2645.3	2748.0	3014.0	2710.3
60°	2059.4	2074.2	2202.8	2458.3	2936.6	3140.9	3157.9	2955.5	3021.0	3296.7	2890.3
62.5°	1882.8	1898.5	2075.8	2399.5	2918.1	3338.5	3519.1	3307.5	3306.4	3468.1	2943.1
65°	1604.4	1599.8	1786.1	2179.8	2762.0	3484.6	3877.8	3611.8	3521.5	3470.8	2836.9
67.5°	1183.2	1162.7	1322.5	1660.2	2295.7	3321.0	4088.8	3770.3	3594.8	3242.5	2512.4
70°	614.0	593.5	722.8	969.4	1509.8	2591.9	3855.2	3688.3	3432.8	2718.1	1968.3
72.5°	262.5	259.0	311.6	425.3	730.4	1495.0	3022.9	3192.4	2945.5	2025.1	1353.2
75°	176.5	175.5	195.1	231.8	328.5	606.7	1891.7	2266.1	2155.1	1255.7	761.1
77.5°	138.5	137.2	148.8	166.6	212.9	239.3	839.5	1216.6	1126.0	546.6	333.1
80°	108.3	107.3	114.5	124.2	153.1	150.9	276.3	484.1	374.6	209.4	162.0
82.5°	85.4	85.4	91.4	91.6	108.6	103.0	144.2	213.2	187.0	122.1	99.2
85°	78.2	78.2	84.4	68.5	70.9	65.0	89.5	126.4	118.6	50.1	43.1
87.5°	39.3	38.3	70.9	60.6	38.5	34.5	43.7	61.2	65.8	27.8	21.6
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°	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1	688.1
2.5°	684.8	684.6	685.1	685.4	687.5	690.5	691.8	693.7	694.8	694.3
5°	676.8	677.3	679.5	681.1	684.8	689.7	692.4	694.5	696.4	695.6
7.5°	670.0	671.4	674.6	675.9	678.1	679.5	679.2	680.0	681.6	679.7
10°	666.2	667.9	670.3	668.4	663.3	656.0	649.3	645.8	646.8	645.5
12.5°	662.5	664.6	662.7	653.8	639.6	630.1	625.0	625.5	628.0	628.5
15°	660.3	661.1	653.0	636.3	621.8	620.4	623.1	622.6	622.9	622.9
17.5°	660.3	658.2	643.1	626.4	620.2	617.7	609.4	598.9	594.3	592.7
20°	663.8	658.2	639.8	628.8	615.3	594.6	572.5	553.0	544.4	542.0
22.5°	674.3	664.6	649.0	629.9	591.6	556.8	521.8	498.6	483.0	480.3
25°	695.6	684.8	667.1	615.6	553.9	504.3	464.4	438.5	422.9	420.7
27.5°	732.8	725.8	676.8	584.0	503.7	450.6	413.7	393.8	382.2	381.4
30°	788.9	785.4	671.9	537.4	442.0	398.6	380.8	369.2	360.6	360.3
32.5°	878.4	850.1	656.0	480.5	385.7	361.7	354.4	347.4	340.7	340.7
35°	993.4	902.3	625.8	419.6	351.4	341.2	332.0	321.0	312.1	311.6
37.5°	1128.7	934.7	571.6	370.6	335.3	327.5	314.0	297.5	281.9	279.2
40°	1265.4	944.4	495.4	340.4	325.0	313.7	297.3	277.9	262.8	262.0
42.5°	1390.7	925.8	414.5	319.6	314.8	299.7	282.5	265.2	253.3	253.1
45°	1495.8	877.5	346.6	300.0	304.0	287.0	271.7	257.7	248.5	246.6
47.5°	1594.7	809.4	298.9	279.2	293.2	280.0	267.1	253.9	245.0	243.6
50°	1709.5	735.8	265.5	259.0	283.8	277.6	270.9	257.1	242.3	240.7
52.5°	1848.6	672.2	239.3	241.2	276.5	280.8	280.6	266.3	240.4	238.3
55°	2003.9	601.6	219.7	226.7	273.6	286.8	283.0	274.9	242.0	238.8
57.5°	2156.7	519.1	205.9	215.6	269.2	286.2	271.4	259.8	245.8	241.2
60°	2271.2	408.3	195.4	205.9	259.8	277.3	258.7	243.4	245.0	241.5
62.5°	2278.8	315.6	182.7	197.6	245.5	268.4	250.4	236.1	248.5	245.3
65°	2144.8	238.5	170.6	187.6	230.2	262.8	242.3	232.1	255.8	252.3
67.5°	1805.8	191.9	160.4	177.3	214.8	250.9	235.0	228.3	262.2	256.0
70°	1303.7	163.6	150.4	164.9	201.1	237.4	228.5	221.5	244.7	235.0
72.5°	802.6	141.8	139.1	148.5	190.5	223.4	218.8	208.9	220.5	212.6
75°	400.8	122.9	126.4	132.3	175.7	207.5	202.7	192.7	194.3	192.7
77.5°	191.9	105.1	111.6	116.2	156.6	189.5	184.3	174.1	172.2	172.5
80°	121.6	87.9	94.1	97.3	139.9	168.4	163.3	153.1	174.6	162.0
82.5°	76.0	71.4	73.0	79.0	121.8	146.6	139.9	130.7	157.4	124.5
85°	42.0	49.9	52.0	57.1	93.8	122.6	115.9	104.3	93.5	91.9
87.5°	25.1	29.6	30.5	34.2	63.1	88.7	78.4	74.4	61.7	61.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)