

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: P191680

Luminaire Tested: **GLEON-AF-02-LED-E1-5WQ-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-02-LED-E1-5WQ-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10365 lumens  
Efficiency: N/A  
Efficacy: 121.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 85  
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

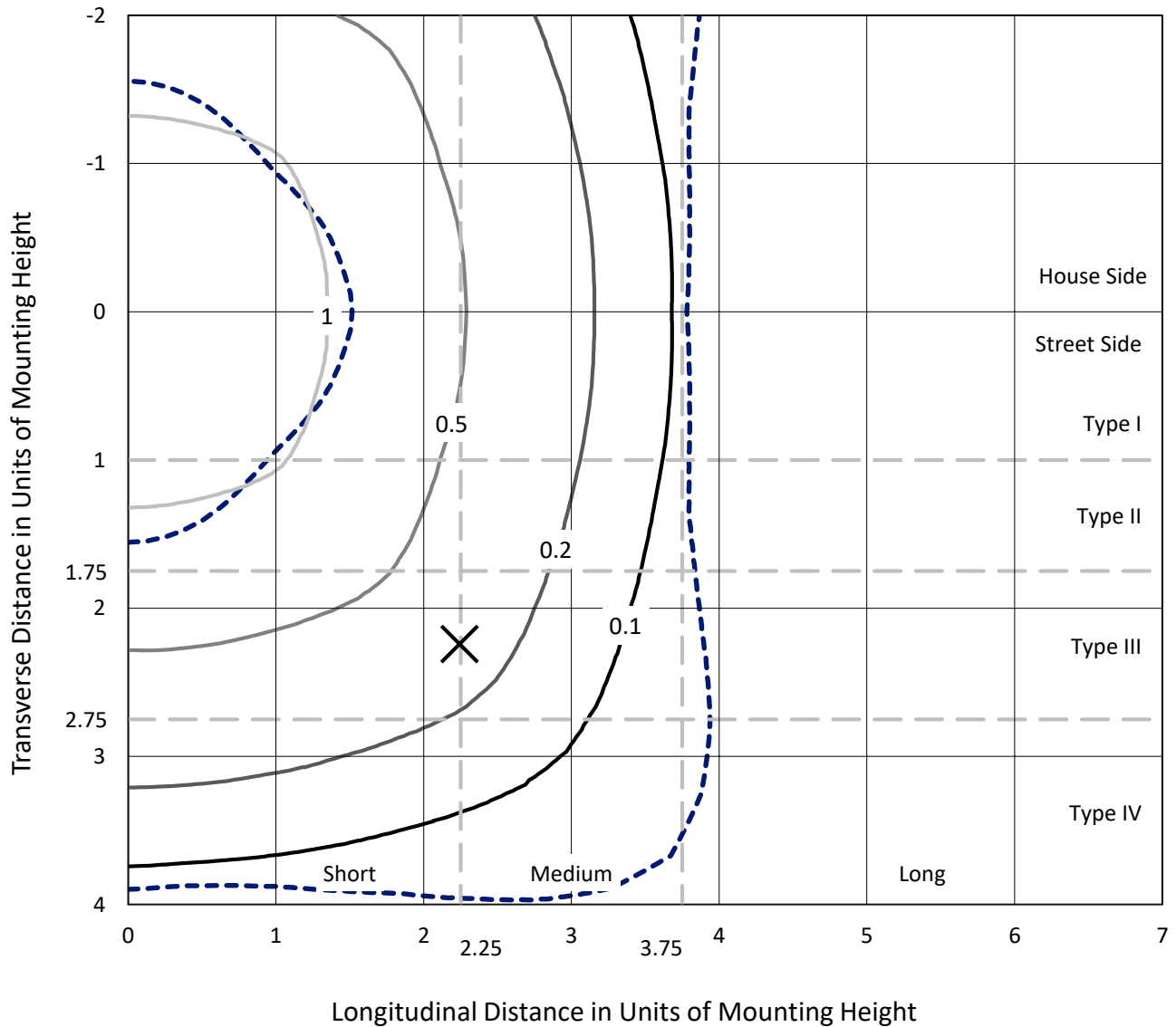


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

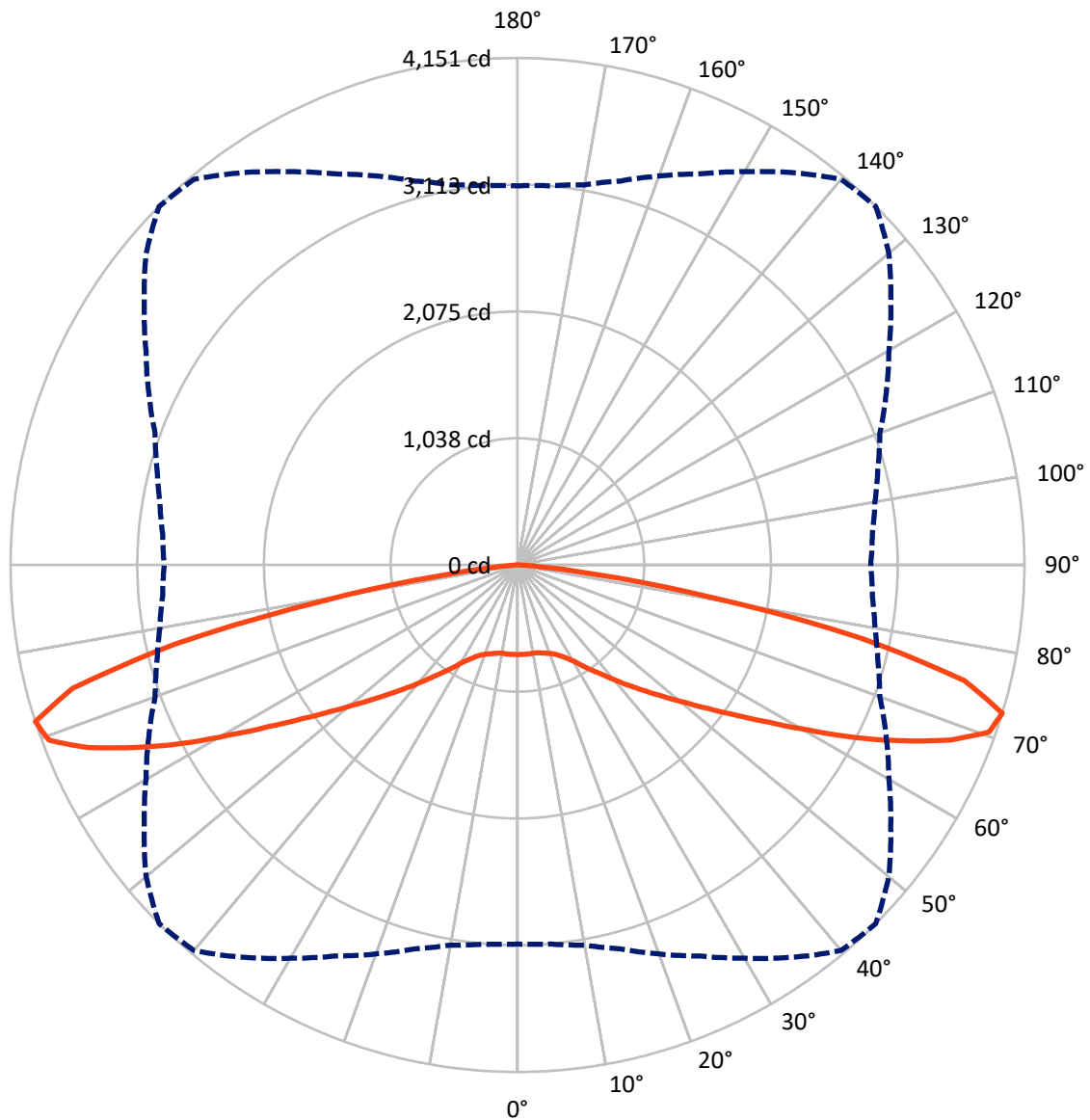


Based on 20 foot mounting height. Maximum calculated value = 1.8 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5182.5	0.0	5182.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5182.5	0.0	5182.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10365.0	0.0	10365.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.1	0.7
10°-20°	212.9	2.1
20°-30°	389.0	3.8
30°-40°	670.7	6.5
40°-50°	1146.6	11.1
50°-60°	1858.4	17.9
60°-70°	3083.0	29.7
70°-80°	2715.4	26.2
80°-90°	218.9	2.1
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°	10365.0	100.0
0°-180°	10365.0	100.0



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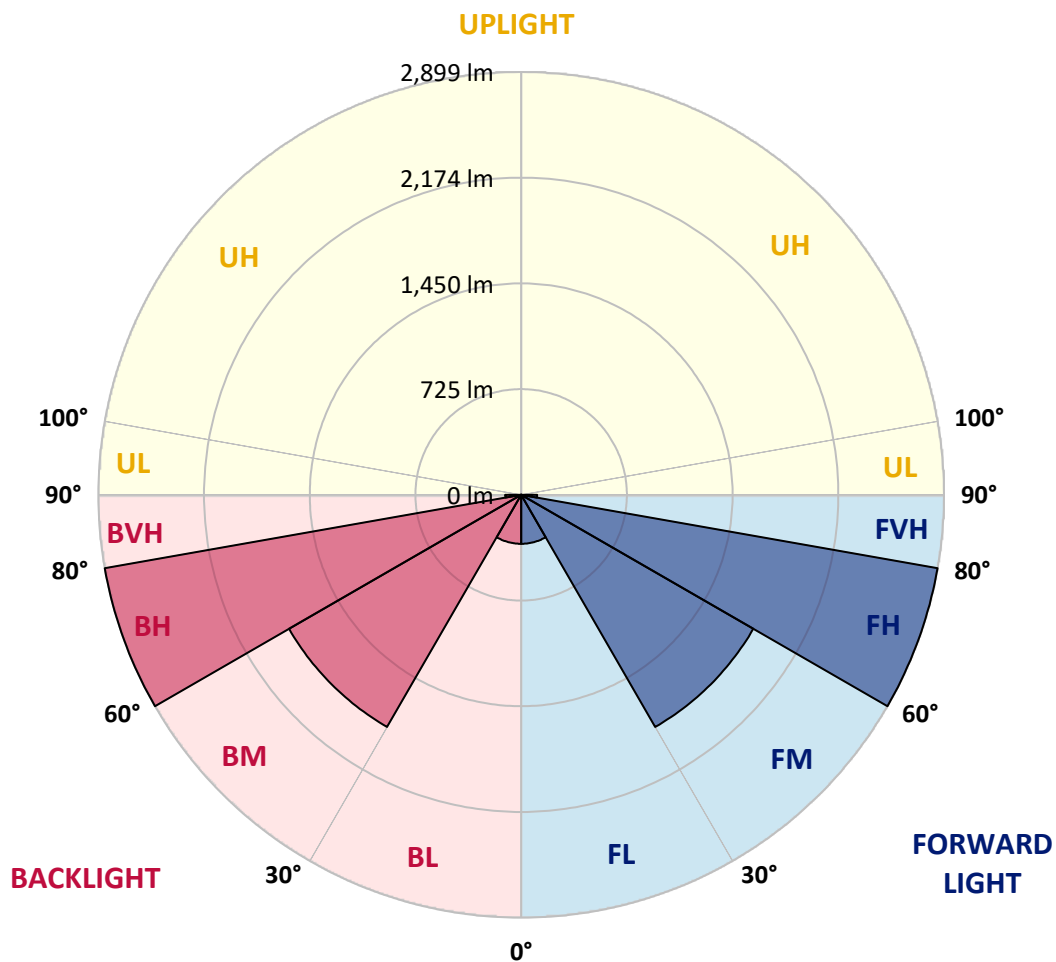
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.0	3.2			
FM	(30°-60°)	1837.8	17.7			
FH	(60°-80°)	2899.2	28.0			G2/5000
FVH	(80°-90°)	109.5	1.1			G2/225
BL	(0°-30°)	336.0	3.2	B1/500		
BM	(30°-60°)	1837.8	17.7	B2/2500		
BH	(60°-80°)	2899.2	28.0	B4/5000		G2/5000
BVH	(80°-90°)	109.5	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
2.5°	734.0	734.5	735.0	734.5	734.5	734.0	733.5	734.0	733.5	732.6	733.1
5°	736.4	737.3	737.3	736.4	736.9	736.4	735.4	735.9	735.0	733.5	733.5
7.5°	739.2	739.7	739.7	738.8	739.2	738.3	737.3	736.9	735.9	734.0	732.6
10°	743.5	744.0	743.5	742.6	742.6	741.1	738.8	737.8	735.9	733.1	731.6
12.5°	748.3	748.7	748.3	747.3	746.8	744.5	742.6	741.1	739.7	737.3	735.0
15°	754.9	755.9	754.9	753.0	751.6	749.7	748.7	749.2	749.7	747.8	745.4
17.5°	767.3	767.8	766.3	762.1	760.1	758.2	758.2	759.2	760.6	759.7	757.3
20°	790.1	788.7	785.3	780.1	777.7	774.4	773.9	774.4	774.4	773.9	772.0
22.5°	818.6	817.7	813.4	806.7	803.4	801.5	798.7	796.3	795.8	794.4	792.5
25°	852.9	852.4	847.1	841.4	839.1	836.7	834.3	831.0	828.1	824.8	822.9
27.5°	896.6	894.7	887.1	884.2	880.9	879.5	876.1	872.3	870.0	865.7	863.3
30°	944.6	944.6	938.4	937.5	937.5	934.1	930.3	923.7	919.4	915.1	913.7
32.5°	992.6	993.1	986.9	988.8	990.2	992.6	993.6	991.2	988.3	987.9	985.0
35°	1062.0	1060.1	1053.9	1055.4	1054.9	1054.4	1054.4	1059.6	1060.6	1061.5	1055.8
37.5°	1148.1	1148.1	1141.9	1141.9	1139.0	1136.2	1132.4	1135.7	1140.9	1142.4	1138.6
40°	1246.5	1249.8	1242.2	1241.7	1242.7	1233.6	1229.4	1234.6	1237.9	1243.6	1239.3
42.5°	1362.5	1360.1	1352.5	1351.5	1346.3	1343.5	1339.7	1343.9	1349.2	1353.0	1354.4
45°	1473.7	1471.8	1463.3	1463.3	1458.0	1455.6	1457.5	1464.7	1467.1	1472.3	1477.5
47.5°	1583.5	1581.1	1575.4	1577.8	1578.3	1582.6	1588.8	1595.4	1602.1	1609.2	1611.6
50°	1695.7	1696.2	1690.0	1695.7	1702.8	1714.7	1731.4	1742.3	1756.1	1765.1	1768.0
52.5°	1797.9	1799.8	1806.5	1819.8	1834.1	1857.4	1885.9	1912.5	1935.3	1950.5	1949.6
55°	1920.6	1923.4	1939.6	1962.4	1985.7	2020.9	2063.2	2110.3	2148.3	2170.2	2156.4
57.5°	2077.5	2083.6	2101.7	2132.6	2167.3	2212.9	2270.9	2341.8	2400.7	2430.2	2407.9
60°	2292.8	2296.6	2318.5	2352.7	2394.5	2451.1	2528.6	2623.7	2706.9	2745.9	2720.2
62.5°	2576.6	2583.7	2601.3	2636.0	2678.8	2743.0	2837.6	2956.5	3060.1	3114.3	3056.3
65°	2915.6	2938.4	2953.1	2988.3	3028.2	3096.2	3195.1	3322.5	3433.7	3469.4	3402.4
67.5°	3251.2	3271.2	3296.8	3337.2	3377.6	3454.2	3545.9	3669.5	3791.7	3824.0	3719.9
70°	3398.1	3409.5	3449.4	3504.6	3582.1	3672.4	3778.4	3917.2	4068.4	4095.0	3962.9
72.5°	3103.8	3115.2	3159.9	3253.6	3388.6	3532.2	3717.1	3921.0	4120.7	4150.6	3968.6
75°	2347.5	2328.9	2395.0	2519.1	2701.2	2901.3	3159.9	3452.3	3740.8	3778.4	3561.2
77.5°	1213.2	1210.8	1260.7	1414.8	1632.0	1859.7	2144.5	2474.9	2757.3	2871.4	2694.5
80°	341.8	345.6	369.4	445.9	572.8	737.3	959.8	1269.3	1500.3	1618.2	1519.3
82.5°	134.1	144.5	153.6	167.8	184.5	208.7	278.6	414.5	556.2	664.6	544.3
85°	48.0	51.3	72.7	86.0	87.5	92.2	105.1	122.7	147.8	176.4	145.0
87.5°	18.1	20.0	23.3	38.5	38.0	34.7	42.3	44.2	33.3	30.4	37.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	734.0	734.0	734.0	734.0	734.0	734.0	734.0	734.0
2.5°	732.1	732.6	732.6	733.1	733.5	733.5	734.5	734.5
5°	732.6	732.6	731.6	732.1	731.6	731.6	732.1	732.1
7.5°	731.6	731.2	730.2	729.7	728.8	728.8	728.8	728.8
10°	730.2	729.7	728.8	728.3	727.8	727.8	727.8	727.8
12.5°	734.0	732.6	731.6	731.2	731.2	731.2	731.2	731.2
15°	744.0	740.7	738.3	738.3	738.8	739.7	739.7	740.7
17.5°	756.3	752.5	750.2	748.3	749.2	750.6	751.6	752.5
20°	771.1	769.2	765.9	764.0	764.0	765.9	766.8	767.3
22.5°	791.5	790.1	788.7	786.3	786.3	787.2	789.1	789.1
25°	822.0	821.0	820.0	818.1	817.7	817.7	818.6	819.6
27.5°	860.0	860.5	859.5	859.0	857.6	857.1	858.6	858.1
30°	910.8	913.2	915.6	913.7	911.3	909.9	908.5	906.6
32.5°	979.8	976.9	975.0	971.7	967.4	963.6	960.8	957.4
35°	1044.9	1040.2	1038.3	1041.1	1040.6	1038.3	1034.9	1032.1
37.5°	1124.8	1123.8	1124.8	1130.0	1129.1	1131.4	1124.8	1124.3
40°	1225.6	1226.5	1233.2	1239.3	1242.7	1246.0	1242.2	1238.4
42.5°	1342.5	1342.0	1344.4	1353.0	1358.7	1362.5	1354.4	1353.4
45°	1466.1	1462.8	1464.7	1471.8	1477.5	1481.8	1472.8	1472.8
47.5°	1602.1	1596.4	1590.2	1598.3	1601.6	1604.4	1597.3	1594.9
50°	1753.7	1741.8	1728.5	1731.8	1731.8	1730.9	1721.9	1721.4
52.5°	1927.7	1905.8	1881.6	1872.6	1867.3	1861.6	1845.9	1838.3
55°	2127.8	2095.0	2057.0	2033.7	2021.4	2005.7	1979.5	1972.4
57.5°	2361.7	2310.4	2244.8	2216.3	2188.7	2163.0	2134.0	2125.9
60°	2638.9	2563.3	2476.3	2423.5	2393.6	2368.9	2338.9	2337.5
62.5°	2947.9	2828.6	2730.2	2682.6	2660.8	2638.9	2610.4	2614.2
65°	3262.1	3137.6	3045.4	3006.8	2986.4	2968.3	2939.8	2944.1
67.5°	3572.1	3457.5	3356.3	3316.8	3294.0	3271.2	3245.5	3249.8
70°	3794.6	3652.4	3538.3	3450.9	3396.2	3334.4	3294.5	3284.5
72.5°	3730.9	3511.7	3330.6	3157.1	3055.3	2972.6	2916.5	2892.3
75°	3228.9	2929.4	2696.4	2483.4	2363.6	2266.2	2195.4	2151.1
77.5°	2397.9	2061.3	1786.0	1540.7	1346.8	1216.5	1124.8	1065.4
80°	1312.6	998.3	729.7	512.9	377.0	313.3	276.7	259.1
82.5°	408.8	263.8	194.4	167.8	155.9	149.3	138.3	120.7
85°	130.3	114.1	106.0	101.3	96.5	84.1	58.0	52.8
87.5°	50.4	51.8	51.3	48.5	49.4	35.7	28.5	25.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)