

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: P199910

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199910  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-5NQ-7030-800  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10012.5 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G1

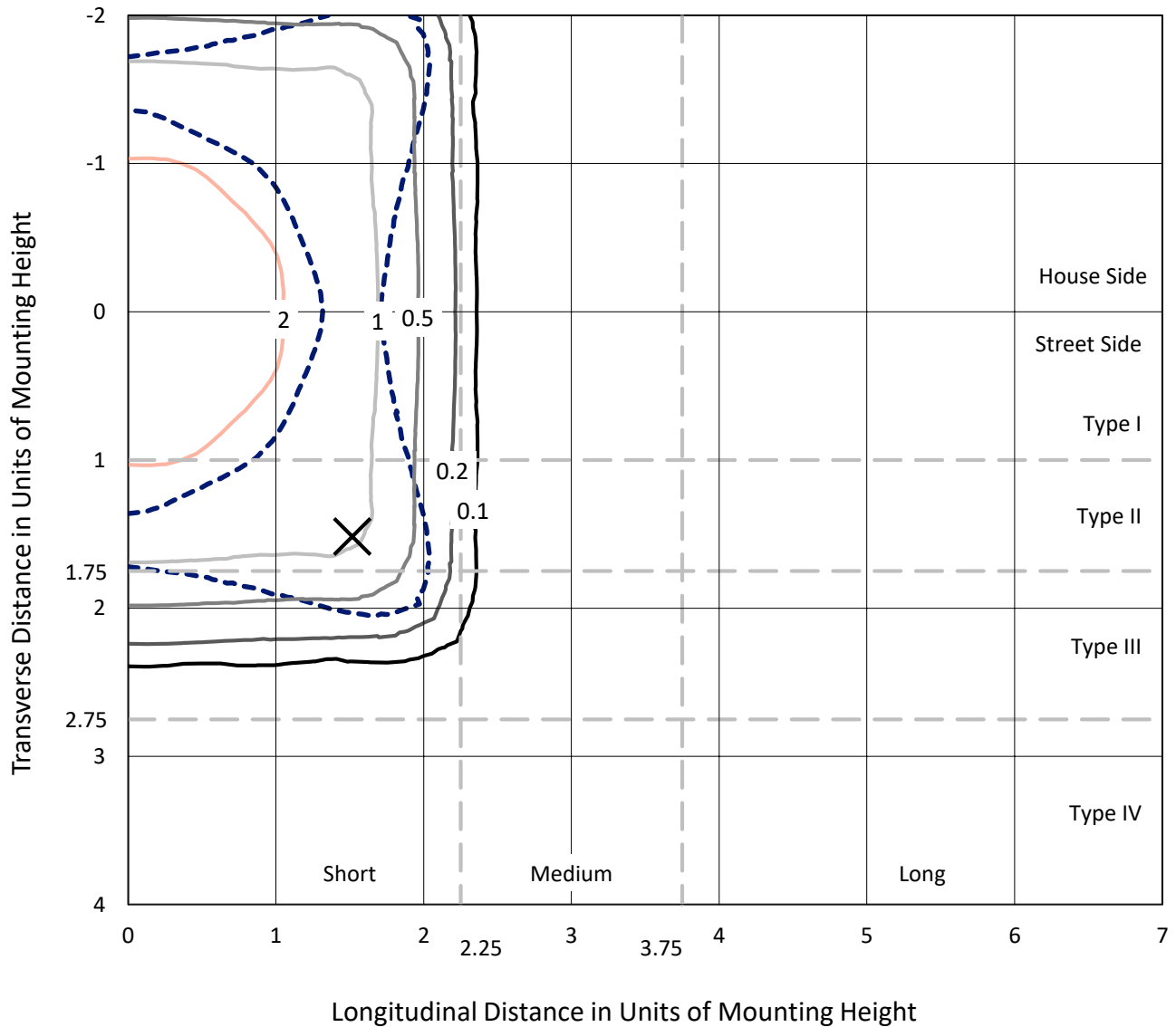
Input Watts (W): 86  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

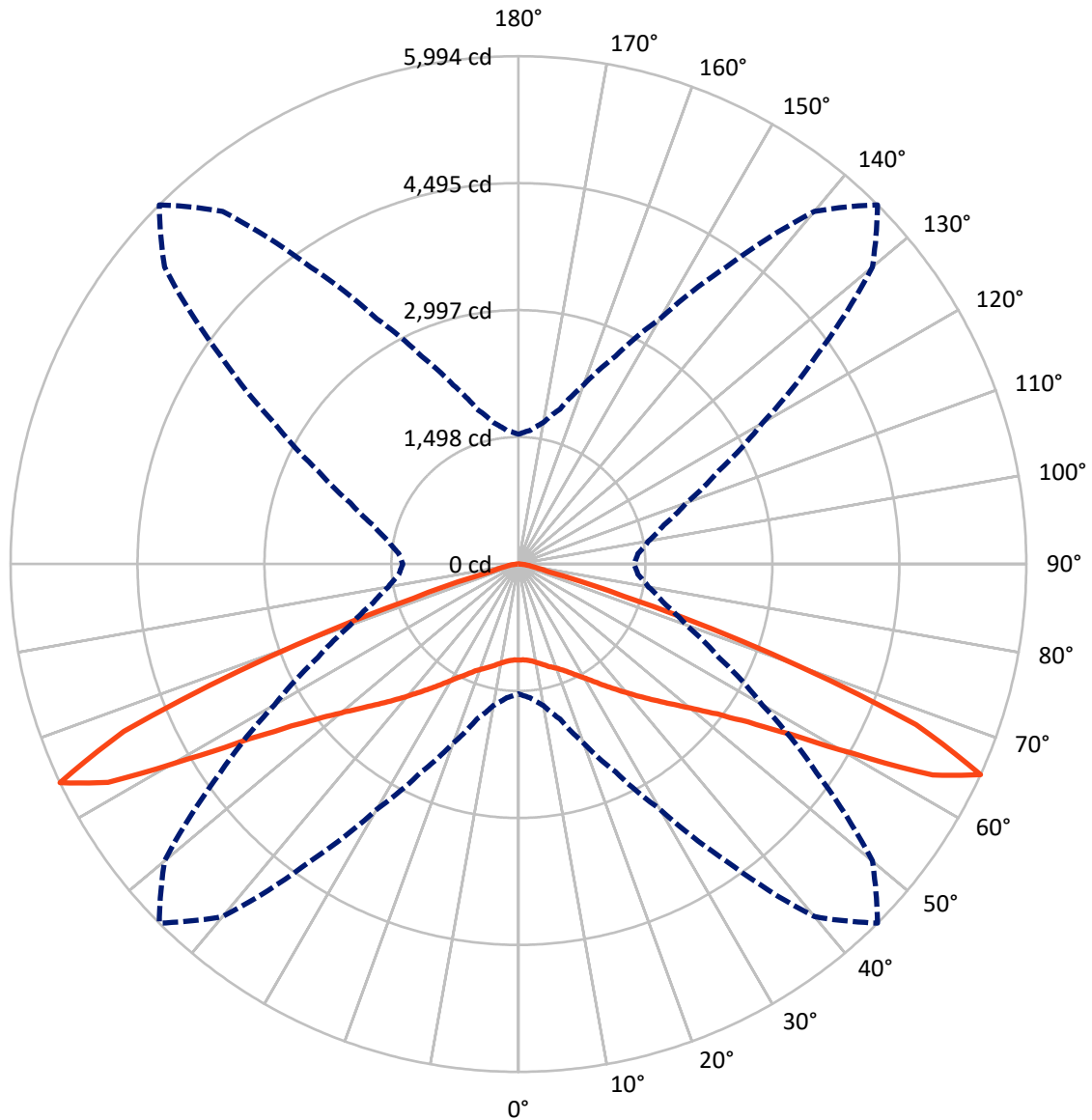
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.8 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5006.3	0.0	5006.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5006.3	0.0	5006.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10012.5	0.0	10012.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	110.4	1.1
10°-20°	354.1	3.5
20°-30°	662.2	6.6
30°-40°	1119.9	11.2
40°-50°	1831.2	18.3
50°-60°	2911.9	29.1
60°-70°	2632.2	26.3
70°-80°	333.1	3.3
80°-90°	57.3	0.6
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°	10012.5	100.0
0°-180°	10012.5	100.0



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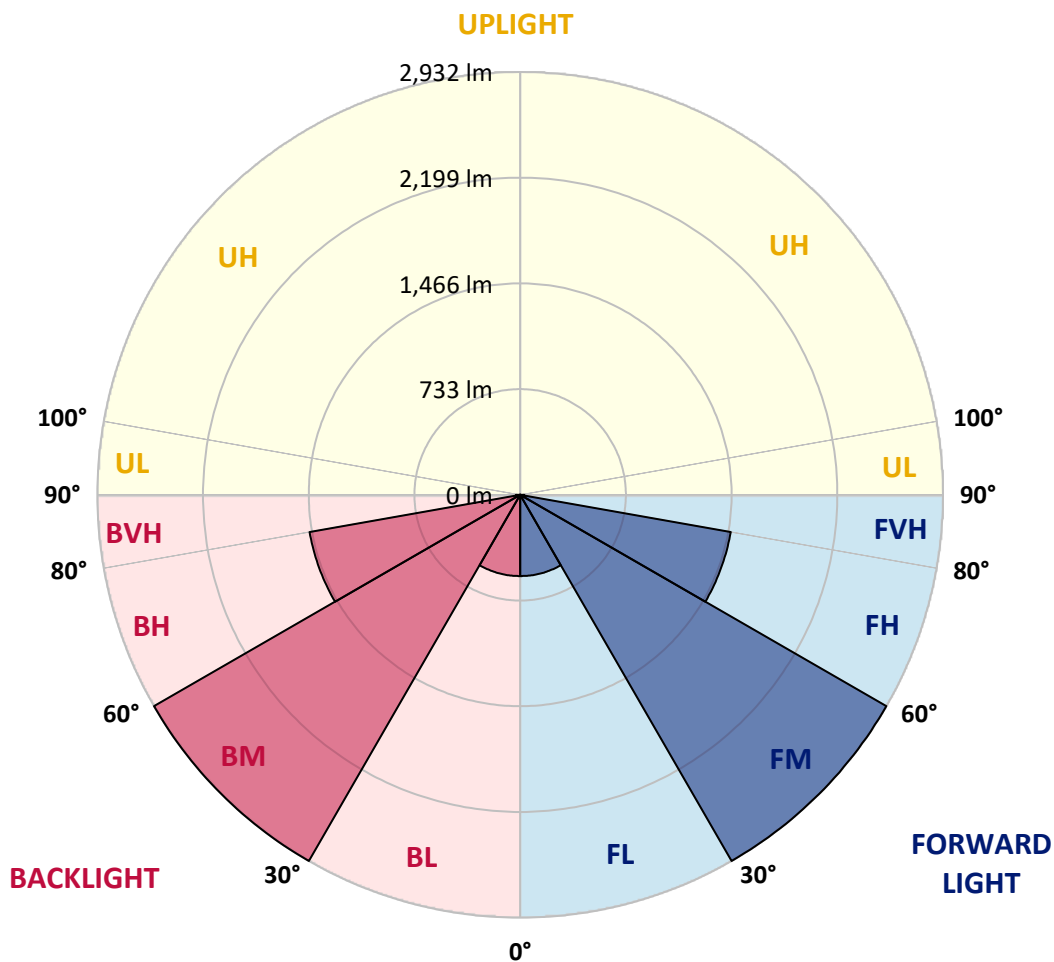
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	563.4	5.6			
FM	(30°-60°)	2931.6	29.3			
FH	(60°-80°)	1482.7	14.8			G1/1800
FVH	(80°-90°)	28.7	0.3			G1/100
BL	(0°-30°)	563.4	5.6	B2/1000		
BM	(30°-60°)	2931.6	29.3	B3/5000		
BH	(60°-80°)	1482.7	14.8	B3/2500		G1/1800
BVH	(80°-90°)	28.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9
2.5°	1133.9	1134.7	1135.8	1134.7	1135.8	1134.3	1133.3	1134.7	1133.3	1132.0	1132.9
5°	1143.7	1144.2	1144.2	1142.8	1144.2	1143.3	1141.9	1143.7	1142.3	1140.8	1141.9
7.5°	1160.2	1162.0	1160.6	1159.1	1160.2	1159.1	1158.2	1158.7	1158.2	1156.8	1157.3
10°	1182.1	1183.6	1182.6	1182.1	1183.1	1182.6	1181.6	1181.2	1181.6	1180.3	1180.3
12.5°	1208.9	1208.4	1208.0	1208.4	1209.8	1209.8	1209.4	1209.8	1210.8	1211.2	1210.3
15°	1235.1	1236.0	1236.0	1236.0	1238.9	1241.3	1242.6	1243.6	1245.4	1245.9	1244.0
17.5°	1268.0	1268.0	1267.5	1268.0	1270.8	1274.5	1275.9	1277.8	1279.7	1281.1	1278.8
20°	1304.5	1305.5	1305.5	1306.4	1310.1	1314.4	1314.4	1315.4	1314.4	1315.4	1314.0
22.5°	1349.2	1351.9	1351.9	1352.4	1356.1	1361.3	1359.8	1361.3	1358.9	1360.9	1358.9
25°	1407.3	1411.4	1410.5	1410.5	1413.4	1416.6	1417.1	1420.0	1419.4	1421.8	1420.4
27.5°	1473.0	1479.5	1481.3	1480.9	1482.7	1486.0	1486.9	1490.3	1488.3	1490.3	1489.3
30°	1551.7	1554.4	1558.2	1559.6	1562.0	1565.2	1565.2	1565.6	1563.4	1566.2	1567.7
32.5°	1633.3	1638.5	1642.1	1650.6	1654.8	1657.1	1656.7	1657.7	1655.3	1659.1	1661.9
35°	1741.1	1744.9	1751.0	1757.6	1763.1	1762.7	1761.3	1761.7	1761.7	1765.1	1767.9
37.5°	1870.9	1871.9	1880.0	1889.3	1892.2	1889.3	1880.9	1878.9	1874.8	1878.9	1883.6
40°	2008.4	2011.7	2027.7	2033.8	2035.2	2029.9	2017.8	2010.7	2001.4	2006.5	2013.1
42.5°	2152.4	2159.0	2173.5	2184.2	2188.9	2185.6	2168.8	2158.0	2145.9	2148.6	2155.1
45°	2311.8	2319.8	2340.5	2350.7	2359.7	2354.4	2338.0	2321.6	2302.4	2303.8	2314.1
47.5°	2490.0	2498.0	2524.7	2542.0	2546.8	2545.7	2527.5	2505.0	2478.8	2477.8	2486.7
50°	2689.8	2697.7	2731.1	2757.7	2771.4	2769.9	2748.4	2716.5	2684.6	2685.0	2696.3
52.5°	2884.8	2894.8	2929.3	2975.3	3002.0	3021.2	3008.1	2978.2	2939.2	2940.1	2950.4
55°	3067.7	3084.2	3123.9	3186.3	3236.0	3290.1	3305.4	3304.5	3281.0	3287.6	3298.0
57.5°	3156.3	3180.7	3242.2	3340.6	3441.8	3551.6	3644.5	3713.8	3743.4	3788.0	3777.6
60°	2988.5	3027.3	3117.9	3262.8	3463.0	3691.9	3937.0	4176.8	4381.2	4535.5	4446.9
62.5°	2446.9	2497.4	2607.3	2792.8	3095.9	3462.1	3931.4	4497.8	5115.1	5487.3	5221.5
65°	1531.0	1583.6	1695.1	1894.0	2248.4	2703.8	3340.6	4279.3	5432.5	5993.8	5452.7
67.5°	597.0	625.5	686.0	813.1	1079.5	1484.7	2123.8	3189.2	4568.2	5060.2	4483.4
70°	299.2	302.0	313.2	336.7	393.9	511.6	778.4	1478.5	2619.9	3164.2	2525.6
72.5°	216.3	216.7	222.3	232.6	250.9	277.1	327.8	452.6	852.0	1302.2	798.5
75°	165.5	167.3	170.7	176.4	186.2	199.3	217.5	260.7	323.1	374.6	315.1
77.5°	127.5	131.3	133.7	138.8	144.9	153.8	159.0	175.4	204.0	214.8	211.5
80°	97.0	100.3	105.6	109.7	113.9	118.2	116.3	123.8	138.8	147.7	143.0
82.5°	62.0	65.7	80.7	84.4	86.4	89.0	85.8	86.4	92.9	98.5	92.9
85°	39.9	42.2	51.2	55.8	56.3	58.1	56.7	53.4	53.4	48.7	54.8
87.5°	18.2	18.8	23.0	27.2	28.2	25.3	24.8	23.9	19.2	18.2	19.6
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°	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9	1132.9
2.5°	1132.5	1133.3	1133.9	1135.3	1135.8	1135.8	1136.2	1137.2
5°	1141.3	1142.8	1143.3	1145.1	1145.6	1145.1	1146.0	1146.5
7.5°	1157.3	1159.7	1160.6	1162.5	1161.1	1162.9	1163.4	1163.4
10°	1180.8	1183.1	1183.6	1185.5	1184.5	1185.5	1185.5	1184.5
12.5°	1211.6	1212.1	1210.8	1212.1	1210.3	1211.2	1209.8	1208.9
15°	1245.9	1244.6	1241.3	1241.3	1238.5	1238.9	1238.5	1237.9
17.5°	1279.2	1276.3	1274.1	1273.1	1270.8	1270.3	1268.9	1268.9
20°	1315.8	1314.4	1313.0	1311.1	1308.8	1306.4	1305.9	1306.8
22.5°	1359.8	1359.4	1359.4	1358.4	1355.2	1352.8	1351.4	1351.4
25°	1419.0	1414.8	1414.8	1414.3	1412.8	1411.4	1408.7	1410.1
27.5°	1485.6	1483.2	1485.1	1484.7	1483.2	1483.2	1481.3	1481.3
30°	1567.7	1566.7	1569.5	1567.1	1562.4	1562.0	1560.1	1557.8
32.5°	1662.4	1661.4	1665.6	1662.8	1655.3	1651.1	1647.3	1645.5
35°	1767.9	1768.4	1773.5	1771.6	1763.1	1760.3	1753.8	1752.8
37.5°	1883.2	1890.7	1899.6	1901.4	1894.4	1892.6	1885.6	1881.8
40°	2018.7	2028.6	2042.2	2045.5	2037.9	2036.6	2026.6	2021.6
42.5°	2163.2	2180.0	2196.8	2199.7	2192.2	2184.7	2175.4	2171.6
45°	2324.5	2344.6	2366.7	2372.2	2361.0	2352.2	2339.9	2339.9
47.5°	2505.5	2530.8	2555.7	2571.1	2560.8	2551.4	2536.9	2527.5
50°	2719.3	2754.0	2786.3	2802.3	2785.9	2768.1	2742.7	2734.3
52.5°	2987.4	3025.1	3053.1	3044.7	3019.4	2994.6	2966.9	2955.7
55°	3329.7	3342.5	3342.5	3310.5	3260.0	3218.2	3174.6	3160.1
57.5°	3758.0	3709.3	3634.2	3539.0	3419.4	3315.3	3245.0	3211.6
60°	4261.1	4026.6	3761.7	3501.4	3287.6	3111.2	3006.7	2959.0
62.5°	4596.4	3983.0	3452.3	3034.4	2726.8	2514.4	2370.0	2313.7
65°	4295.8	3321.8	2611.0	2111.1	1775.8	1559.6	1416.6	1364.1
67.5°	3146.4	2081.6	1390.4	996.5	730.1	582.4	523.8	499.5
70°	1412.4	732.9	449.3	350.7	302.4	277.6	266.8	263.1
72.5°	425.8	308.1	259.8	234.5	215.2	203.0	194.2	193.2
75°	257.0	213.8	189.9	175.0	162.7	152.9	148.1	146.7
77.5°	179.6	157.2	145.9	135.1	125.6	118.2	113.9	110.7
80°	126.2	115.4	110.3	104.2	98.0	91.0	84.9	82.1
82.5°	84.4	82.1	82.1	78.3	73.2	66.5	54.4	51.6
85°	54.4	54.0	54.8	53.4	49.7	42.7	35.2	33.4
87.5°	25.3	25.7	28.6	28.2	27.2	22.5	17.8	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)