

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: P200062

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200062
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-800
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10786 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

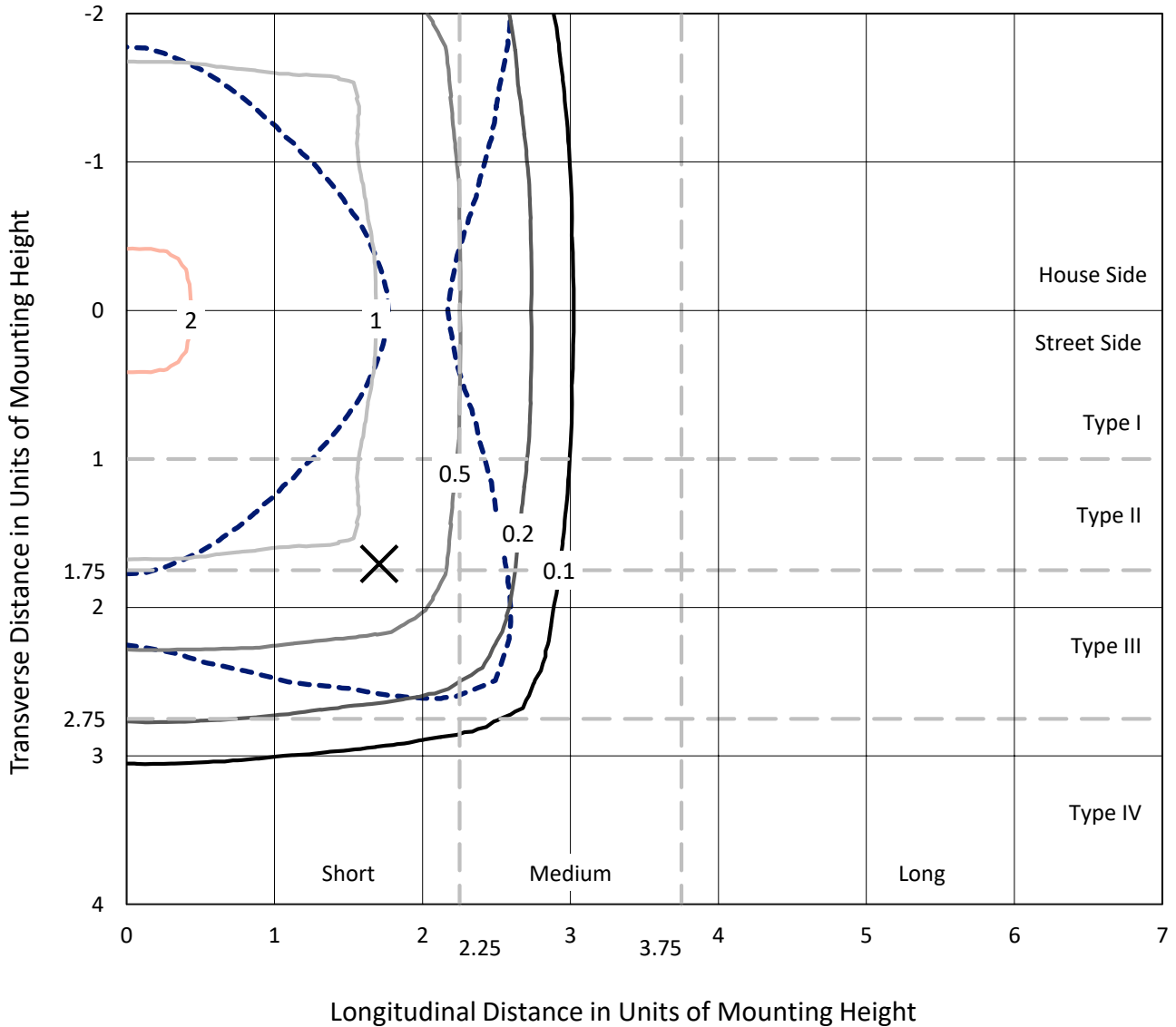
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

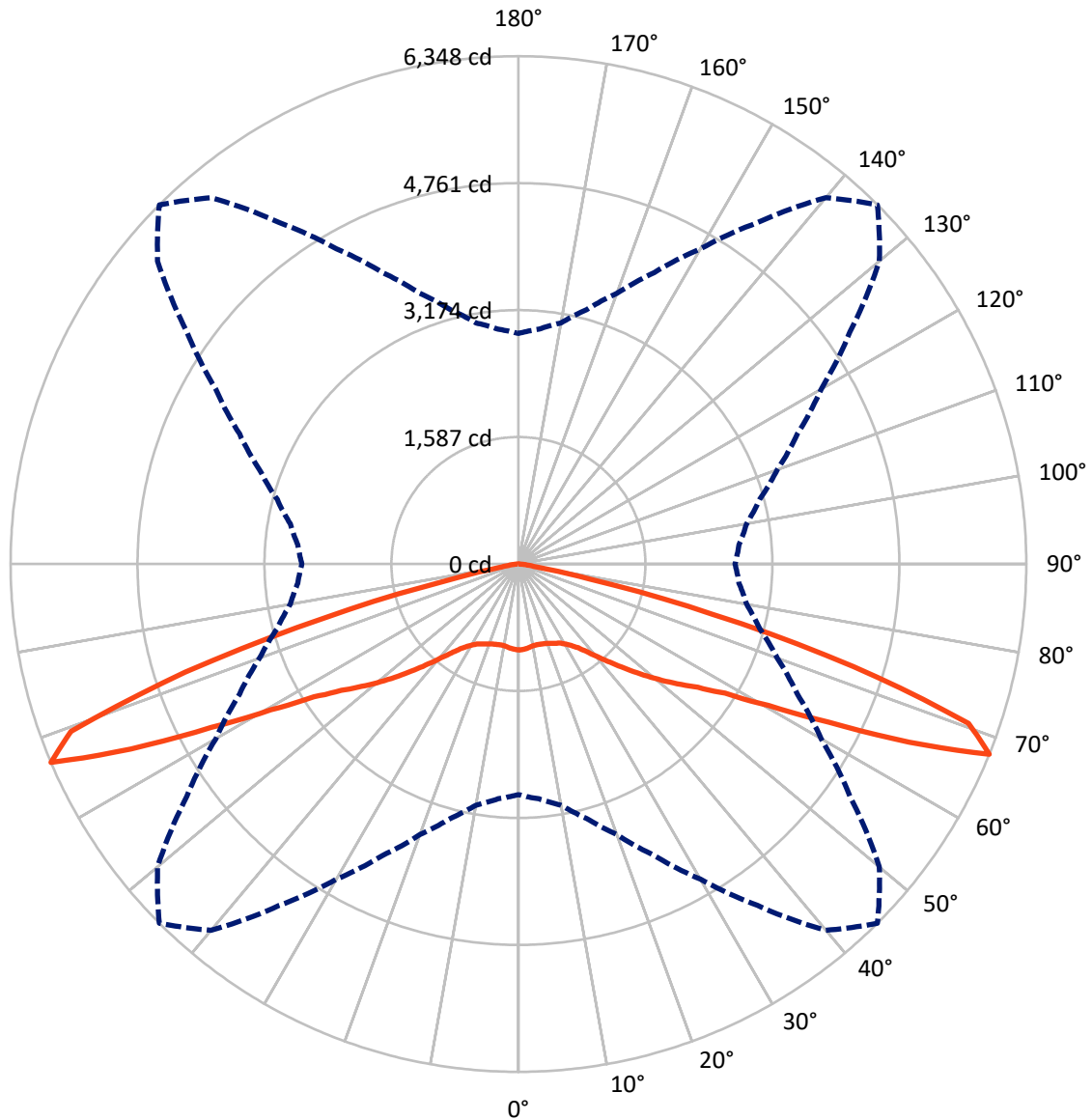
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5393.0	0.0	5393.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5393.0	0.0	5393.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	10786.0	0.0	10786.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.6	0.9
10°-20°	291.9	2.7
20°-30°	496.3	4.6
30°-40°	811.3	7.5
40°-50°	1448.2	13.4
50°-60°	2441.8	22.6
60°-70°	3789.3	35.1
70°-80°	1331.4	12.3
80°-90°	75.2	0.7
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°	10786.0	100.0
0°-180°	10786.0	100.0



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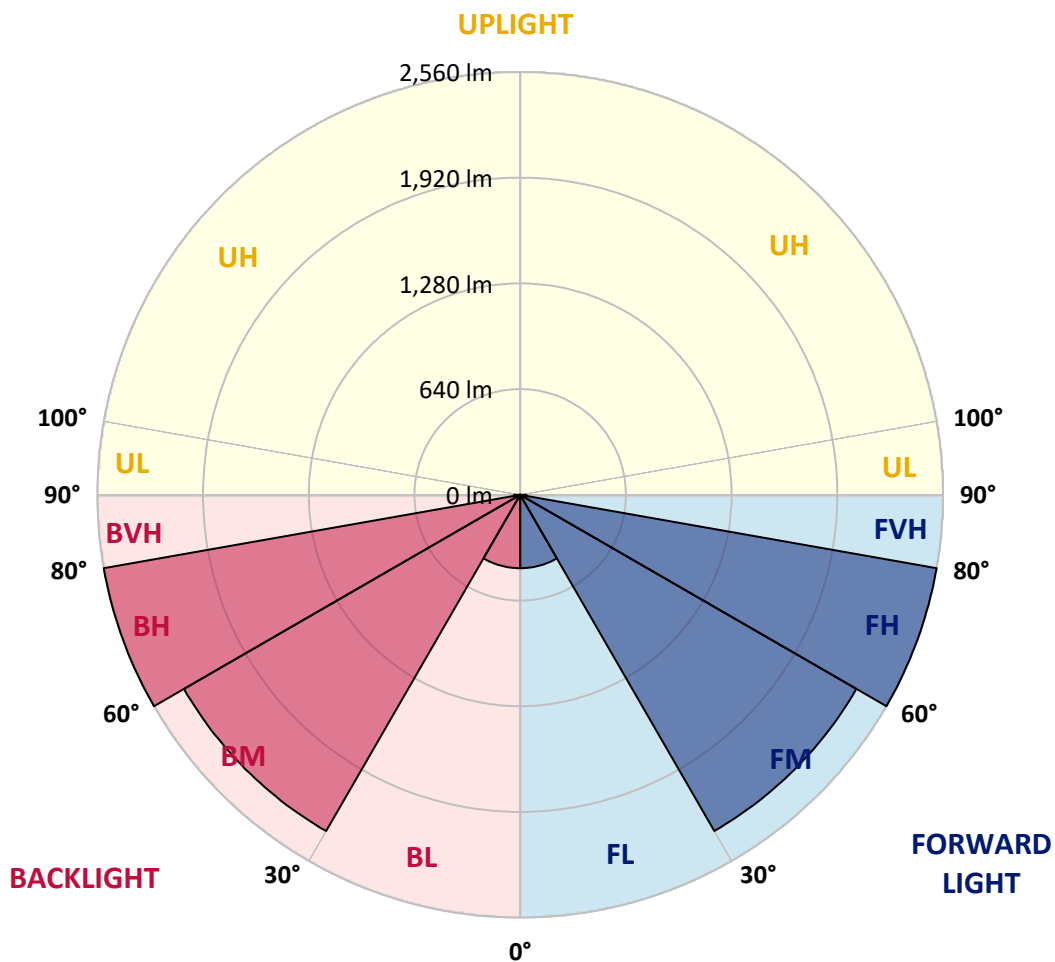
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	444.4	4.1			
FM	(30°-60°)	2350.6	21.8			
FH	(60°-80°)	2560.3	23.7			G2/5000
FVH	(80°-90°)	37.6	0.3			G1/100
BL	(0°-30°)	444.4	4.1	B1/500		
BM	(30°-60°)	2350.6	21.8	B2/2500		
BH	(60°-80°)	2560.3	23.7	B4/5000		G2/5000
BVH	(80°-90°)	37.6	0.3			G1/100
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°	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9
2.5°	1070.9	1071.8	1071.8	1071.8	1071.4	1071.4	1070.4	1071.4	1070.9	1069.4	1069.9
5°	1061.9	1062.9	1062.9	1062.4	1064.0	1063.5	1061.9	1062.9	1062.4	1061.5	1061.9
7.5°	1049.0	1050.6	1050.6	1050.1	1051.6	1051.1	1050.1	1050.6	1050.6	1049.0	1049.0
10°	1034.7	1035.6	1035.6	1035.2	1037.7	1037.7	1037.2	1038.7	1039.1	1037.7	1036.7
12.5°	1021.3	1022.7	1022.7	1024.8	1027.2	1028.3	1030.7	1032.7	1034.7	1034.2	1032.3
15°	1013.3	1014.4	1016.3	1018.9	1022.7	1026.2	1030.2	1034.7	1038.7	1039.6	1036.7
17.5°	1008.4	1009.9	1012.8	1016.3	1021.8	1027.8	1033.7	1039.6	1045.1	1047.1	1043.6
20°	1006.9	1007.9	1010.9	1016.8	1024.3	1033.2	1041.7	1048.6	1056.0	1058.5	1056.0
22.5°	1009.9	1011.9	1015.4	1022.3	1032.3	1043.6	1053.5	1062.9	1072.4	1076.9	1073.4
25°	1023.3	1025.3	1029.7	1038.7	1049.5	1061.5	1072.9	1083.8	1092.2	1096.7	1094.3
27.5°	1048.1	1050.6	1056.0	1065.0	1076.9	1089.7	1102.1	1111.1	1118.0	1119.5	1116.6
30°	1085.2	1090.8	1097.2	1107.1	1120.9	1131.9	1144.3	1152.3	1160.6	1160.6	1158.2
32.5°	1143.4	1148.8	1155.7	1165.1	1176.1	1188.0	1198.9	1205.9	1214.8	1215.3	1209.3
35°	1230.1	1232.6	1238.6	1244.5	1254.4	1264.9	1274.3	1278.7	1286.2	1286.7	1281.2
37.5°	1344.7	1345.2	1349.2	1351.1	1360.1	1371.5	1380.4	1383.4	1390.3	1389.4	1383.8
40°	1478.2	1480.6	1482.1	1485.1	1494.5	1505.4	1514.9	1516.3	1523.8	1522.3	1515.3
42.5°	1632.4	1633.3	1641.8	1646.2	1655.2	1660.7	1672.5	1674.1	1683.0	1679.0	1671.1
45°	1805.5	1814.4	1822.4	1831.3	1840.7	1847.1	1856.6	1854.6	1860.5	1854.6	1850.1
47.5°	1987.5	1994.0	2011.8	2025.7	2041.1	2046.6	2059.9	2054.0	2059.9	2051.5	2050.0
50°	2187.9	2199.3	2214.7	2230.5	2246.9	2255.9	2273.2	2265.8	2273.7	2265.8	2261.3
52.5°	2385.3	2388.3	2422.0	2445.4	2468.2	2478.6	2489.0	2485.6	2486.1	2485.6	2481.1
55°	2572.8	2579.8	2613.5	2645.2	2684.9	2714.2	2732.1	2730.1	2725.7	2721.2	2713.7
57.5°	2784.2	2791.1	2829.8	2869.0	2914.1	2955.8	2991.9	3029.2	3043.6	3047.6	3031.2
60°	3069.9	3069.4	3120.9	3168.6	3233.0	3295.0	3374.4	3455.2	3548.0	3591.2	3534.1
62.5°	3360.5	3372.5	3446.8	3531.1	3664.1	3793.5	3939.9	4083.7	4230.5	4350.1	4223.0
65°	3325.8	3371.4	3482.0	3673.0	3918.5	4210.2	4525.6	4859.5	5161.1	5368.4	5135.7
67.5°	2882.4	2947.3	3060.0	3292.1	3599.2	4019.7	4549.5	5209.7	5977.0	6348.0	5888.2
70°	2089.3	2162.6	2280.7	2507.4	2811.4	3211.2	3786.6	4579.2	5595.0	5969.1	5462.7
72.5°	1039.6	1079.3	1152.3	1296.6	1526.8	1851.1	2372.9	3134.8	4033.6	4376.9	3914.1
75°	353.1	371.5	383.9	431.1	503.9	631.5	890.9	1370.4	2090.7	2506.3	2060.9
77.5°	203.9	204.4	212.8	221.3	233.6	247.6	282.2	370.5	640.9	910.2	663.2
80°	132.0	131.4	138.4	144.8	153.2	160.2	162.2	171.7	197.9	234.7	209.8
82.5°	68.4	76.9	92.3	100.7	116.5	119.6	115.6	112.1	118.6	123.1	126.0
85°	37.7	32.7	49.1	63.5	70.5	71.4	71.4	67.4	70.0	68.4	74.4
87.5°	17.4	15.9	19.3	31.2	33.2	28.2	29.8	26.3	18.8	18.3	20.9
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°	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9	1074.9
2.5°	1069.9	1070.4	1070.4	1071.8	1072.4	1073.4	1074.4	1074.9
5°	1061.5	1062.9	1061.9	1063.5	1063.5	1064.5	1064.5	1065.0
7.5°	1049.0	1050.6	1050.6	1050.6	1050.1	1051.6	1051.6	1051.6
10°	1036.1	1037.2	1036.7	1035.6	1034.7	1036.1	1035.6	1035.2
12.5°	1032.3	1029.7	1027.8	1026.7	1024.8	1025.3	1023.8	1023.8
15°	1034.7	1030.2	1026.7	1025.3	1023.3	1022.3	1021.3	1021.8
17.5°	1041.2	1035.6	1031.2	1028.8	1026.2	1024.8	1022.7	1023.3
20°	1052.5	1046.1	1039.6	1034.7	1030.2	1027.8	1026.2	1025.8
22.5°	1069.4	1060.0	1050.6	1043.1	1037.2	1033.7	1032.3	1031.2
25°	1088.7	1078.3	1067.4	1059.0	1053.0	1048.6	1045.6	1045.6
27.5°	1113.1	1104.6	1094.7	1084.8	1079.3	1074.9	1072.9	1071.8
30°	1153.8	1145.8	1137.8	1128.4	1121.5	1117.1	1113.6	1110.6
32.5°	1205.9	1199.4	1193.0	1186.0	1179.6	1173.5	1168.1	1165.7
35°	1279.2	1274.3	1269.8	1261.9	1259.4	1255.9	1252.9	1250.5
37.5°	1380.4	1378.4	1378.4	1370.0	1368.0	1366.6	1363.6	1364.0
40°	1513.4	1515.3	1512.8	1509.9	1508.3	1504.5	1504.5	1507.9
42.5°	1670.6	1672.1	1677.5	1672.5	1678.0	1673.0	1670.1	1672.5
45°	1853.1	1858.6	1869.4	1864.5	1868.0	1859.5	1849.2	1849.7
47.5°	2058.0	2063.0	2067.4	2063.9	2064.4	2050.5	2036.7	2033.2
50°	2270.7	2272.8	2275.2	2270.2	2271.3	2255.9	2240.1	2240.5
52.5°	2481.1	2490.5	2500.4	2487.0	2484.0	2466.7	2444.3	2435.4
55°	2721.7	2735.1	2723.6	2700.3	2677.0	2653.7	2624.4	2619.5
57.5°	3018.2	2995.4	2959.7	2915.6	2883.4	2850.7	2820.9	2808.4
60°	3431.0	3345.2	3280.7	3215.1	3174.0	3133.8	3094.6	3088.7
62.5°	4014.3	3865.9	3737.5	3602.1	3491.4	3405.2	3336.3	3316.9
65°	4745.4	4394.7	4090.7	3806.9	3560.4	3374.4	3257.4	3205.7
67.5°	5059.9	4367.4	3846.1	3443.4	3120.9	2895.8	2769.2	2706.3
70°	4446.3	3622.0	3054.9	2651.7	2358.1	2118.0	2003.4	1935.9
72.5°	3058.9	2304.0	1821.9	1487.1	1252.4	1051.6	972.2	966.3
75°	1373.5	909.7	627.0	483.1	406.7	353.6	337.3	324.9
77.5°	384.4	284.2	253.5	237.1	221.3	202.9	195.9	197.4
80°	187.0	176.6	169.6	159.2	144.8	129.5	122.5	125.5
82.5°	124.0	122.5	126.9	119.6	98.7	83.8	70.5	64.4
85°	75.4	76.4	77.8	78.4	66.5	46.6	31.7	35.7
87.5°	29.8	34.3	37.2	38.7	36.2	22.3	17.9	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)