

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: P270189

Luminaire Tested: **GWC-AF-02-LED-E1-5MQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270189
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-7027
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11338.1 lumens
Efficiency: N/A
Efficacy: 100.3 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): 113
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

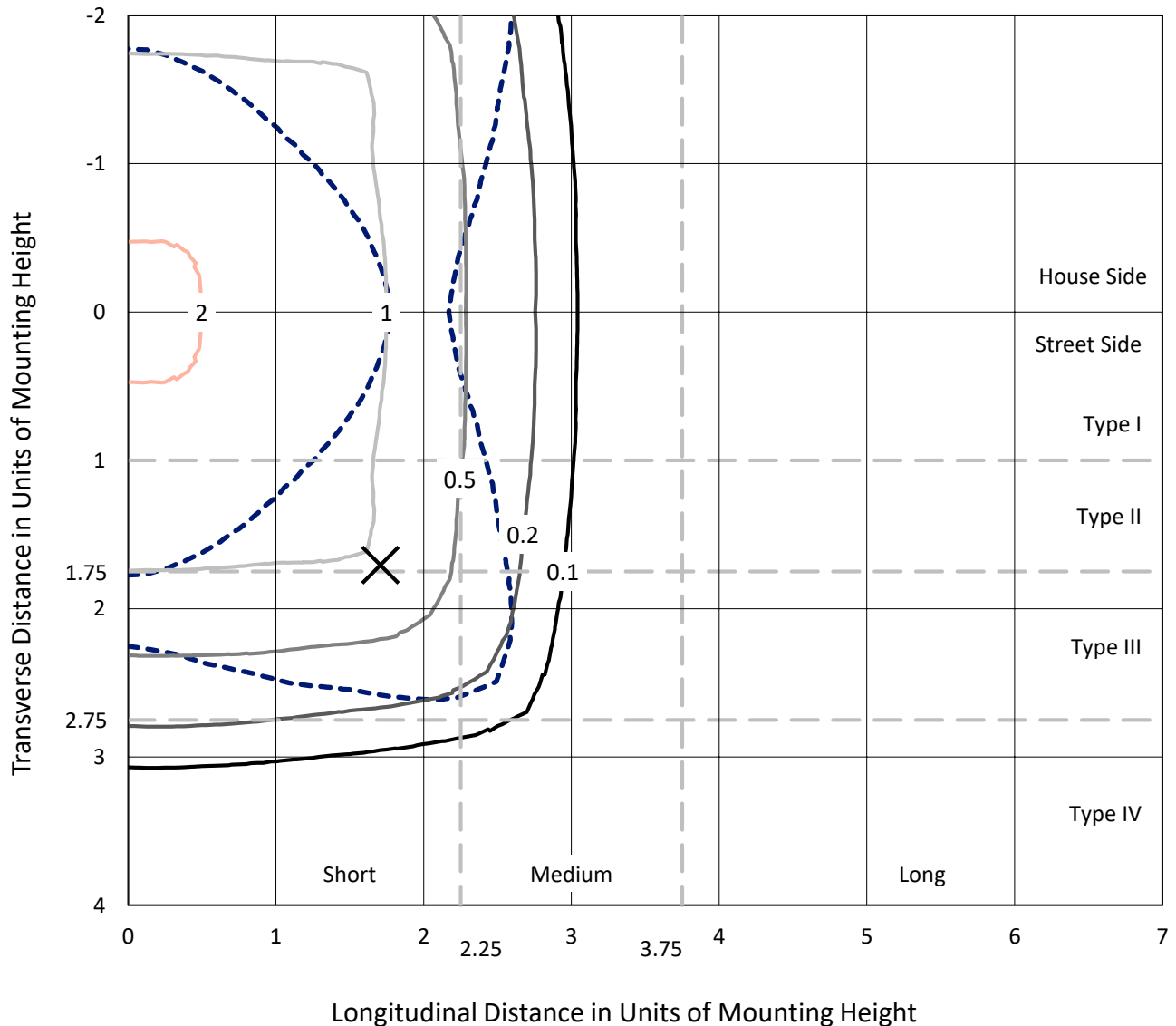


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Iso-Footcandle Lines of Horizontal Illumination

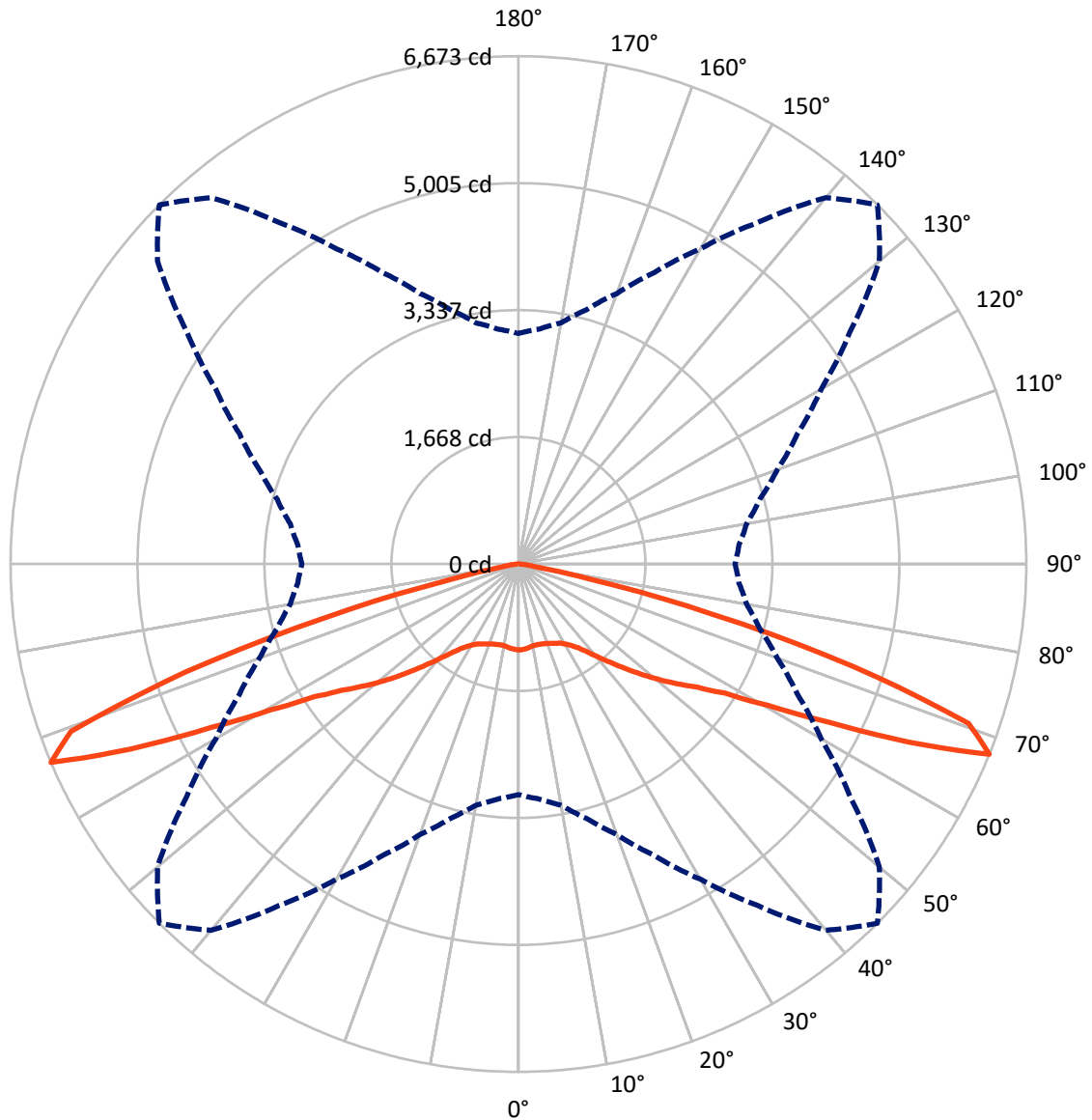
× Max cd
 - - - 1/2 Max cd



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 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5669.0	0.0	5669.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5669.0	0.0	5669.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11338.1	0.0	11338.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	0.9
10°-20°	306.9	2.7
20°-30°	521.7	4.6
30°-40°	852.8	7.5
40°-50°	1522.4	13.4
50°-60°	2566.8	22.6
60°-70°	3983.2	35.1
70°-80°	1399.5	12.3
80°-90°	79.1	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°	11338.1	100.0
0°-180°	11338.1	100.0



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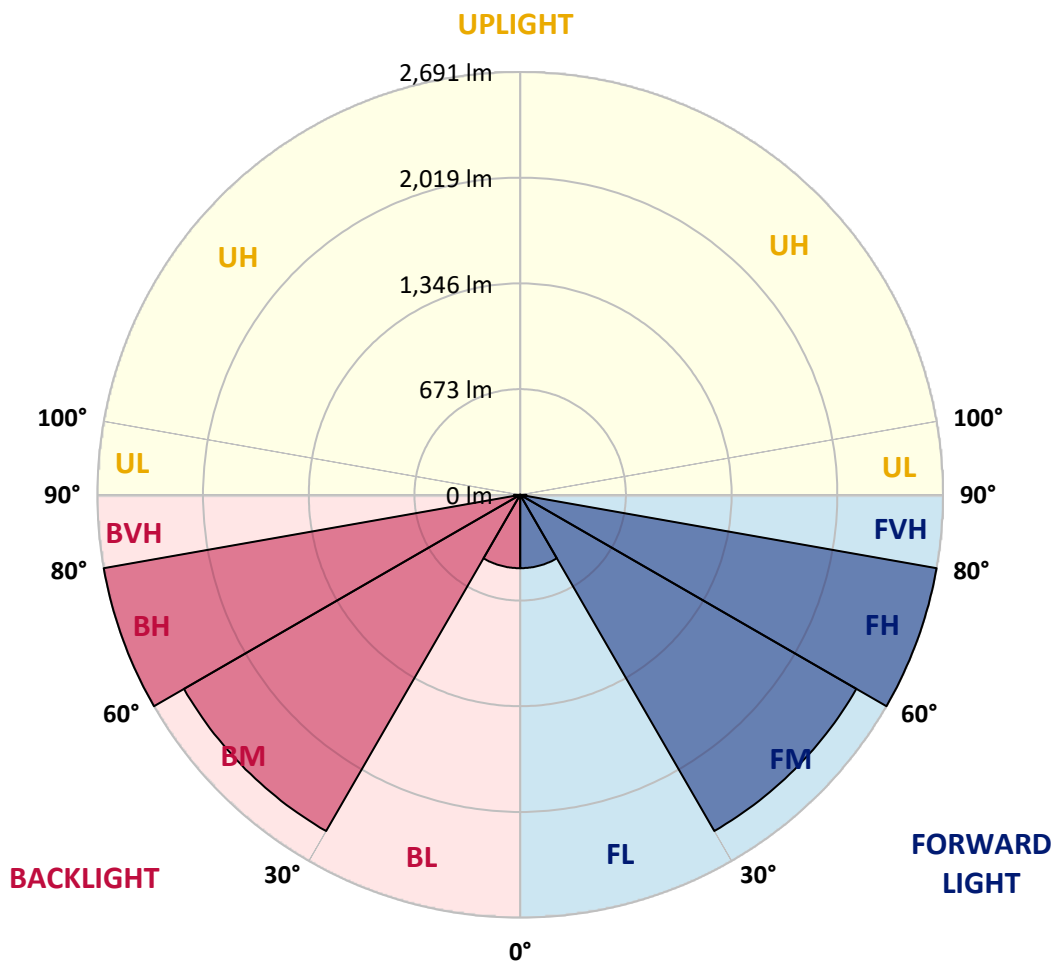
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.2	4.1			
FM	(30°-60°)	2471.0	21.8			
FH	(60°-80°)	2691.4	23.7			G2/5000
FVH	(80°-90°)	39.5	0.3			G1/100
BL	(0°-30°)	467.2	4.1	B1/500		
BM	(30°-60°)	2471.0	21.8	B2/2500		
BH	(60°-80°)	2691.4	23.7	B4/5000		G2/5000
BVH	(80°-90°)	39.5	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°	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9
2.5°	1125.8	1126.7	1126.7	1126.7	1126.3	1126.3	1125.1	1126.3	1125.8	1124.1	1124.7
5°	1116.4	1117.4	1117.4	1116.9	1118.4	1117.9	1116.4	1117.4	1116.9	1115.9	1116.4
7.5°	1102.8	1104.3	1104.3	1103.7	1105.4	1104.8	1103.7	1104.3	1104.3	1102.8	1102.8
10°	1087.7	1088.7	1088.7	1088.1	1090.8	1090.8	1090.3	1091.8	1092.3	1090.8	1089.7
12.5°	1073.6	1075.1	1075.1	1077.2	1079.9	1080.9	1083.4	1085.5	1087.7	1087.0	1085.1
15°	1065.2	1066.3	1068.4	1071.0	1075.1	1078.8	1082.9	1087.7	1091.8	1092.9	1089.7
17.5°	1060.0	1061.5	1064.8	1068.4	1074.2	1080.3	1086.6	1092.9	1098.5	1100.8	1097.0
20°	1058.5	1059.6	1062.7	1068.9	1076.7	1086.1	1094.9	1102.2	1110.0	1112.7	1110.0
22.5°	1061.5	1063.7	1067.4	1074.6	1085.1	1097.0	1107.5	1117.4	1127.3	1132.0	1128.4
25°	1075.7	1077.7	1082.5	1091.8	1103.3	1115.9	1127.8	1139.3	1148.2	1152.9	1150.2
27.5°	1101.7	1104.3	1110.0	1119.5	1132.0	1145.5	1158.5	1167.9	1175.3	1176.8	1173.6
30°	1140.8	1146.5	1153.3	1163.8	1178.3	1189.8	1202.9	1211.3	1220.1	1220.1	1217.6
32.5°	1201.8	1207.6	1214.9	1224.7	1236.2	1248.7	1260.2	1267.6	1276.9	1277.4	1271.2
35°	1293.1	1295.6	1302.0	1308.2	1318.6	1329.6	1339.6	1344.1	1351.9	1352.5	1346.7
37.5°	1413.6	1414.0	1418.2	1420.3	1429.7	1441.7	1451.1	1454.1	1461.5	1460.5	1454.7
40°	1553.8	1556.5	1558.0	1561.1	1571.0	1582.5	1592.3	1594.0	1601.8	1600.2	1593.0
42.5°	1715.9	1717.0	1725.9	1730.6	1739.9	1745.6	1758.3	1759.7	1769.1	1765.0	1756.6
45°	1897.8	1907.3	1915.6	1925.1	1934.9	1941.7	1951.6	1949.5	1955.8	1949.5	1944.8
47.5°	2089.3	2096.0	2114.8	2129.4	2145.6	2151.4	2165.5	2159.2	2165.5	2156.6	2154.9
50°	2299.9	2311.9	2328.0	2344.8	2362.0	2371.3	2389.6	2381.8	2390.1	2381.8	2377.1
52.5°	2507.4	2510.6	2546.1	2570.5	2594.6	2605.4	2616.5	2612.8	2613.3	2612.8	2608.0
55°	2704.5	2711.9	2747.2	2780.7	2822.4	2853.1	2871.9	2869.8	2865.1	2860.5	2852.6
57.5°	2926.7	2934.0	2974.6	3015.8	3063.3	3107.1	3145.1	3184.2	3199.4	3203.5	3186.3
60°	3227.0	3226.4	3280.7	3330.7	3398.5	3463.8	3547.1	3632.0	3729.7	3774.9	3715.0
62.5°	3532.6	3545.0	3623.3	3711.8	3851.7	3987.8	4141.5	4292.7	4447.1	4572.7	4439.2
65°	3496.1	3544.1	3660.2	3861.1	4119.1	4425.7	4757.3	5108.2	5425.3	5643.2	5398.6
67.5°	3030.0	3098.3	3216.6	3460.6	3783.3	4225.4	4782.3	5476.3	6282.9	6673.0	6189.6
70°	2196.1	2273.3	2397.4	2635.6	2955.3	3375.7	3980.4	4813.6	5881.5	6274.7	5742.2
72.5°	1092.9	1134.6	1211.3	1363.0	1604.9	1945.9	2494.5	3295.3	4240.1	4600.8	4114.3
75°	371.2	390.6	403.6	453.1	529.7	663.8	936.5	1440.6	2197.8	2634.6	2166.4
77.5°	214.2	214.9	223.7	232.5	245.5	260.1	296.7	389.4	673.6	956.8	697.2
80°	138.7	138.2	145.4	152.3	161.2	168.4	170.5	180.4	208.0	246.7	220.5
82.5°	72.0	80.8	96.9	105.8	122.4	125.7	121.5	117.9	124.7	129.3	132.4
85°	39.6	34.5	51.7	66.7	74.0	75.1	75.1	70.8	73.5	72.0	78.2
87.5°	18.2	16.7	20.3	32.9	34.9	29.7	31.4	27.7	19.9	19.4	21.9
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°	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9	1129.9
2.5°	1124.7	1125.1	1125.1	1126.7	1127.3	1128.4	1129.3	1129.9
5°	1115.9	1117.4	1116.4	1117.9	1117.9	1118.8	1118.8	1119.5
7.5°	1102.8	1104.3	1104.3	1104.3	1103.7	1105.4	1105.4	1105.4
10°	1089.3	1090.3	1089.7	1088.7	1087.7	1089.3	1088.7	1088.1
12.5°	1085.1	1082.5	1080.3	1079.4	1077.2	1077.7	1076.2	1076.2
15°	1087.7	1082.9	1079.4	1077.7	1075.7	1074.6	1073.6	1074.2
17.5°	1094.5	1088.7	1084.1	1081.4	1078.8	1077.2	1075.1	1075.7
20°	1106.4	1099.6	1092.9	1087.7	1082.9	1080.3	1078.8	1078.2
22.5°	1124.1	1114.3	1104.3	1096.6	1090.3	1086.6	1085.1	1084.1
25°	1144.5	1133.5	1122.1	1113.2	1106.9	1102.2	1099.2	1099.2
27.5°	1170.0	1161.1	1150.8	1140.3	1134.6	1129.9	1127.8	1126.7
30°	1212.8	1204.4	1196.2	1186.2	1178.8	1174.3	1170.5	1167.4
32.5°	1267.6	1260.7	1253.9	1246.7	1239.9	1233.6	1228.0	1225.3
35°	1344.8	1339.6	1334.8	1326.4	1323.8	1320.1	1317.0	1314.5
37.5°	1451.1	1449.0	1449.0	1440.2	1438.0	1436.5	1433.3	1433.9
40°	1590.8	1593.0	1590.3	1587.1	1585.6	1581.5	1581.5	1585.1
42.5°	1756.0	1757.7	1763.5	1758.3	1763.9	1758.7	1755.6	1758.3
45°	1948.0	1953.8	1965.2	1959.9	1963.7	1954.7	1943.8	1944.3
47.5°	2163.3	2168.5	2173.2	2169.5	2170.0	2155.6	2140.9	2137.2
50°	2386.9	2389.1	2391.6	2386.4	2387.5	2371.3	2354.6	2355.1
52.5°	2608.0	2618.0	2628.4	2614.3	2611.3	2593.0	2569.5	2560.1
55°	2860.9	2875.0	2863.1	2838.6	2814.0	2789.5	2758.8	2753.6
57.5°	3172.8	3148.7	3111.2	3064.8	3030.9	2996.6	2965.2	2952.2
60°	3606.5	3516.3	3448.6	3379.8	3336.5	3294.3	3253.0	3246.8
62.5°	4219.8	4063.8	3928.7	3786.4	3670.1	3579.4	3507.0	3486.6
65°	4988.3	4619.7	4300.0	4001.8	3742.7	3547.1	3424.1	3369.8
67.5°	5318.9	4591.0	4043.0	3619.6	3280.7	3043.9	2911.0	2844.8
70°	4673.9	3807.2	3211.4	2787.4	2478.8	2226.4	2105.9	2035.0
72.5°	3215.6	2421.9	1915.1	1563.2	1316.6	1105.4	1021.9	1015.8
75°	1443.8	956.2	659.0	507.8	427.6	371.8	354.6	341.5
77.5°	404.1	298.7	266.4	249.2	232.5	213.3	205.9	207.5
80°	196.5	185.6	178.4	167.4	152.3	136.2	128.7	132.0
82.5°	130.3	128.7	133.5	125.7	103.8	88.2	74.0	67.8
85°	79.2	80.3	81.8	82.4	69.9	49.0	33.3	37.5
87.5°	31.4	36.0	39.0	40.7	38.1	23.4	18.8	19.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)