

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: P193531

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193531
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-RW-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9987 lumens
Efficiency: N/A
Efficacy: 104.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 96
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

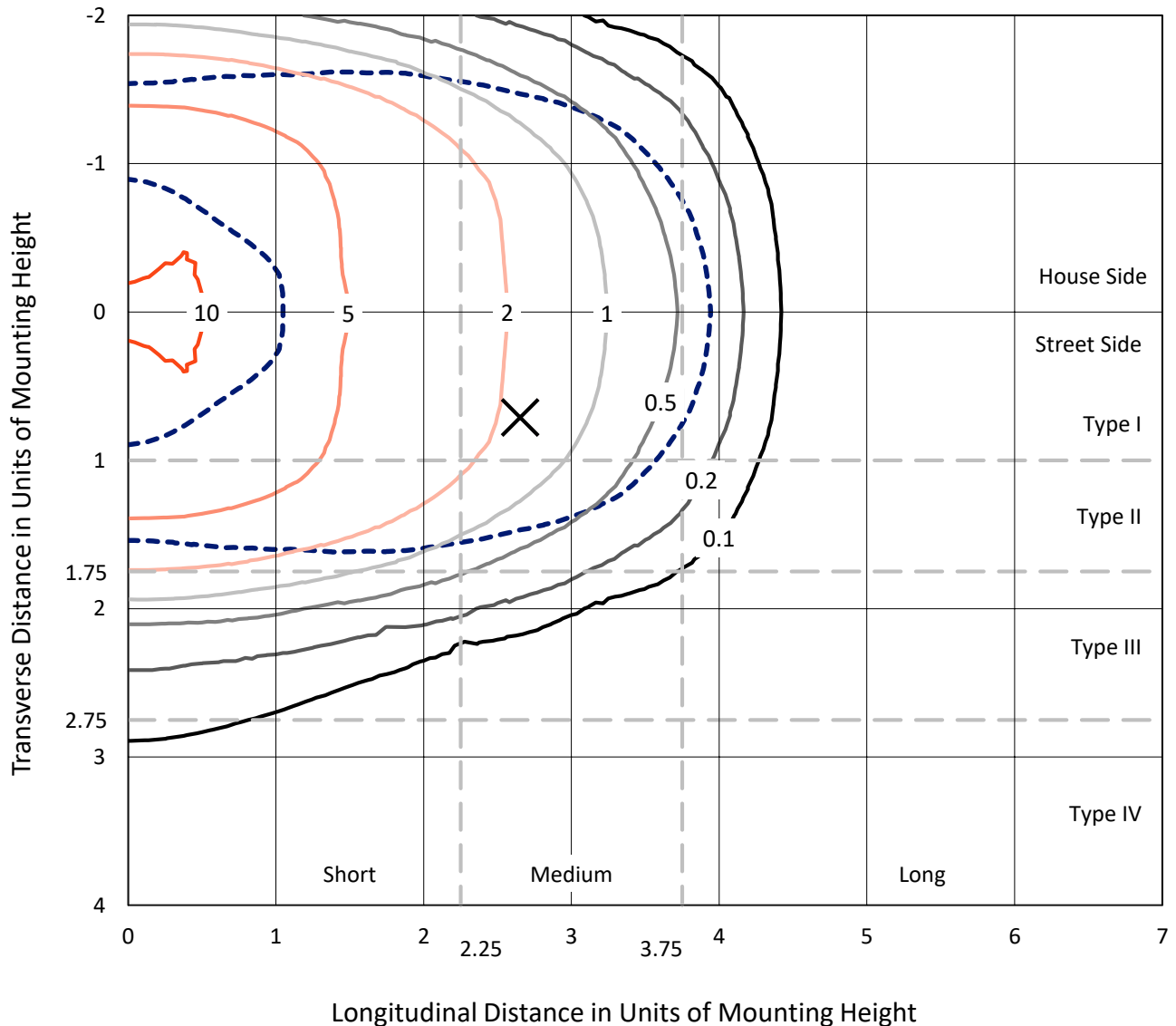


REPORT NUMBER: P193531

CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-8030-600

Iso-Footcandle Lines of Horizontal Illumination

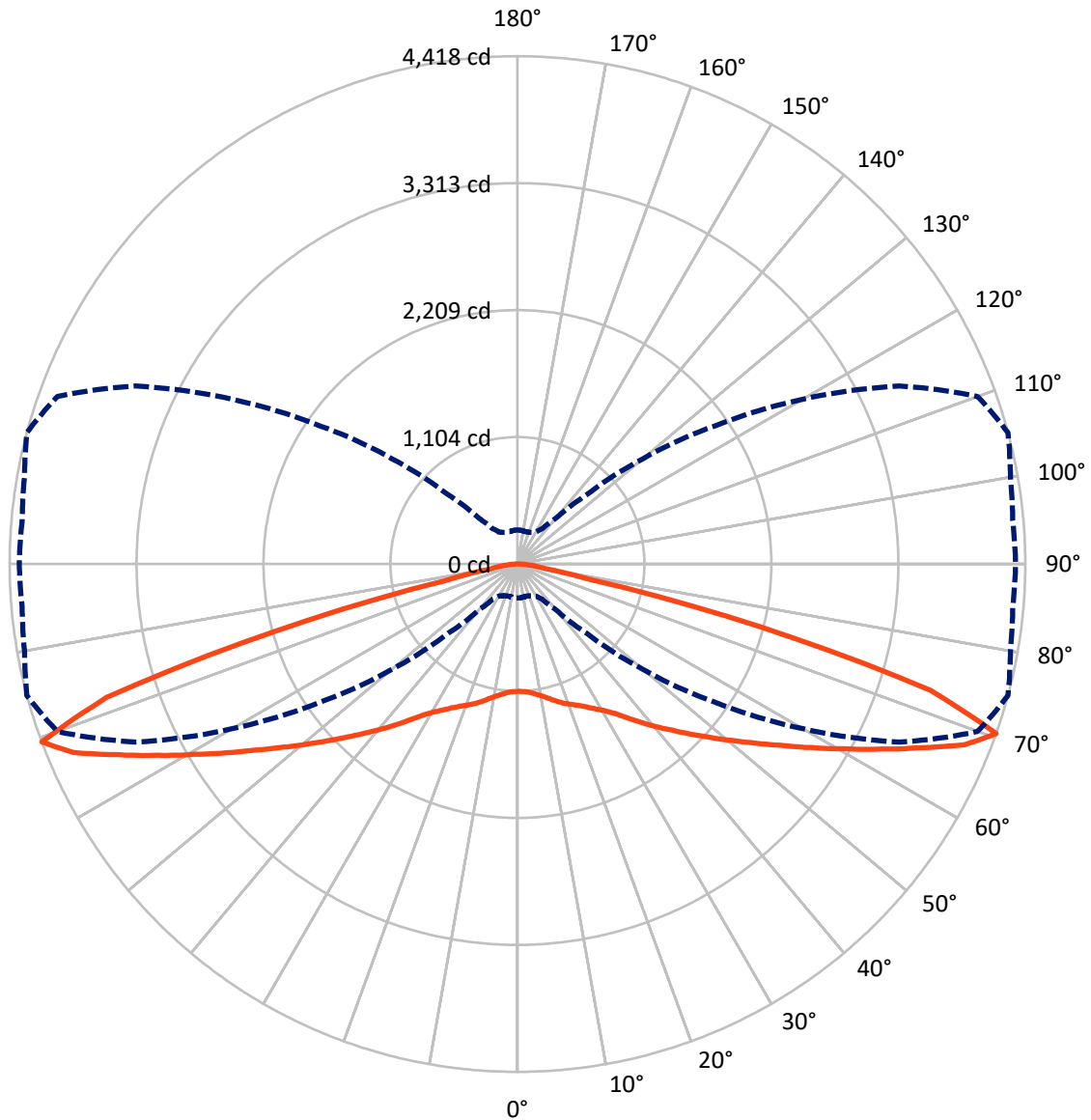
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193531
CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-8030-600

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P193531

CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-8030-600

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4993.5	0.0	4993.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4993.5	0.0	4993.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9987.0	0.0	9987.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.1
10°-20°	330.1	3.3
20°-30°	621.3	6.2
30°-40°	1100.3	11.0
40°-50°	1840.0	18.4
50°-60°	2564.1	25.7
60°-70°	2377.7	23.8
70°-80°	947.6	9.5
80°-90°	99.6	1.0
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°	9987.0	100.0
0°-180°	9987.0	100.0



REPORT NUMBER: P193531

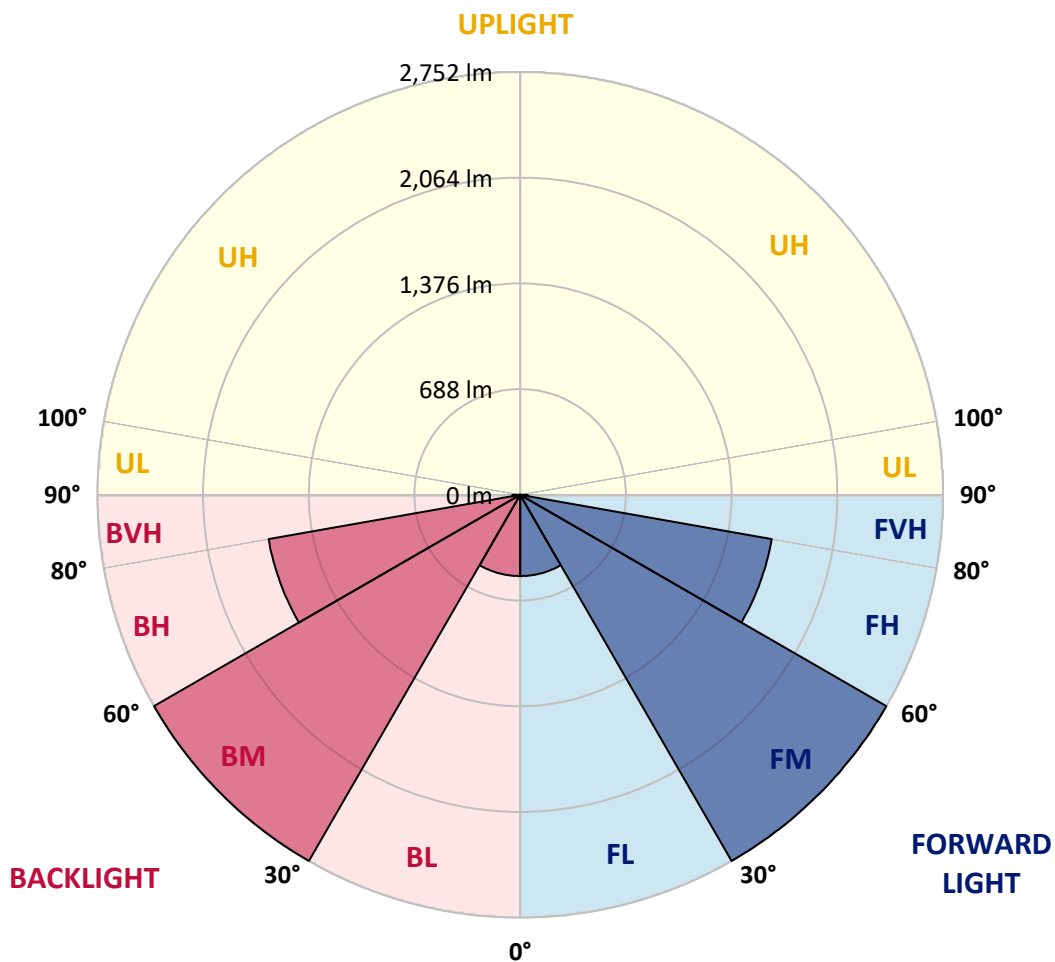
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	528.9	5.3			
FM (30°-60°)	2752.2	27.6			
FH (60°-80°)	1662.7	16.6			G1/1800
FVH (80°-90°)	49.8	0.5			G1/100
BL (0°-30°)	528.9	5.3	B2/1000		
BM (30°-60°)	2752.2	27.6	B3/5000		
BH (60°-80°)	1662.7	16.6	B3/2500		G3/2500
BVH (80°-90°)	49.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





REPORT NUMBER: P193531

CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1107.8	1107.8	1107.8	1107.8	1107.8	1107.8	1107.8	1107.8	1107.8	1107.8	1107.8
2.5°	1105.9	1105.0	1105.9	1105.4	1106.4	1106.4	1107.3	1109.2	1109.2	1110.6	1110.2
5°	1095.0	1094.6	1096.0	1097.4	1098.8	1101.7	1104.5	1108.7	1112.0	1114.4	1116.8
7.5°	1073.8	1073.8	1075.7	1079.0	1082.3	1088.4	1095.0	1103.5	1112.0	1119.1	1125.3
10°	1056.3	1057.3	1059.6	1065.3	1071.0	1080.4	1089.4	1101.7	1113.5	1125.3	1134.7
12.5°	1046.0	1047.4	1051.6	1060.1	1069.6	1082.3	1096.0	1111.6	1124.8	1138.9	1148.4
15°	1049.3	1050.2	1056.3	1066.7	1079.0	1095.0	1113.5	1131.9	1147.4	1162.5	1175.3
17.5°	1067.7	1069.1	1076.2	1088.0	1100.7	1119.6	1139.4	1160.2	1179.5	1196.5	1212.1
20°	1100.7	1102.1	1111.1	1123.8	1138.9	1158.3	1178.1	1199.8	1221.5	1239.5	1256.9
22.5°	1147.4	1149.8	1158.3	1171.0	1188.0	1208.8	1232.4	1255.5	1276.3	1292.8	1308.4
25°	1208.8	1214.0	1222.0	1236.2	1254.1	1273.0	1298.5	1322.1	1341.9	1357.5	1368.8
27.5°	1295.6	1302.7	1308.9	1322.6	1340.0	1358.0	1383.4	1404.2	1423.1	1438.2	1446.7
30°	1410.8	1417.9	1424.0	1437.2	1453.3	1470.3	1494.4	1512.8	1524.6	1536.4	1535.9
32.5°	1550.5	1558.1	1560.4	1574.6	1591.1	1609.5	1631.2	1641.6	1651.1	1652.5	1644.0
35°	1706.8	1710.5	1720.0	1738.9	1757.7	1772.8	1793.6	1798.8	1798.8	1791.7	1772.8
37.5°	1878.1	1880.5	1893.7	1914.9	1934.3	1949.8	1964.0	1974.4	1969.2	1954.1	1922.5
40°	2066.0	2070.2	2089.1	2108.0	2129.7	2144.3	2159.4	2161.3	2156.1	2133.9	2091.0
42.5°	2245.3	2249.1	2268.0	2297.7	2326.0	2346.3	2360.5	2363.3	2346.8	2326.5	2273.2
45°	2399.7	2409.6	2434.1	2469.0	2510.1	2538.9	2558.3	2566.3	2551.6	2525.2	2463.4
47.5°	2521.9	2531.8	2566.8	2608.3	2659.3	2706.0	2738.1	2755.1	2751.3	2731.5	2664.0
50°	2611.6	2621.0	2658.8	2709.8	2769.2	2827.3	2882.1	2922.6	2936.8	2927.8	2866.0
52.5°	2622.0	2637.6	2681.9	2750.4	2827.8	2907.1	2984.9	3053.9	3100.6	3107.7	3061.9
55°	2477.1	2492.6	2554.0	2655.5	2770.7	2900.0	3024.6	3140.7	3232.7	3279.9	3255.9
57.5°	2135.3	2163.2	2227.9	2346.8	2516.2	2709.8	2908.5	3114.7	3302.1	3427.2	3451.3
60°	1636.4	1669.5	1734.6	1861.1	2049.9	2280.7	2546.0	2850.9	3181.8	3463.1	3631.1
62.5°	1049.7	1080.9	1149.3	1259.3	1413.2	1663.3	1948.0	2310.0	2754.6	3198.8	3599.0
65°	539.5	556.5	592.4	658.9	778.8	965.7	1221.1	1582.2	2090.5	2638.5	3217.2
67.5°	341.7	345.0	353.1	362.5	393.2	457.8	576.8	801.9	1220.1	1791.7	2469.0
70°	295.5	295.5	291.7	290.3	294.1	303.0	321.4	373.8	515.0	850.5	1424.0
72.5°	270.5	267.6	261.0	255.8	254.9	254.9	258.7	266.7	289.3	346.5	557.4
75°	249.2	241.2	232.2	226.1	223.7	221.4	220.9	222.3	227.0	236.0	266.2
77.5°	223.3	212.9	202.5	196.4	193.5	190.2	187.4	184.1	181.7	184.6	197.8
80°	192.1	180.3	172.3	168.5	165.7	161.0	154.8	149.2	144.0	143.0	151.0
82.5°	154.8	141.1	141.6	143.0	137.8	131.2	124.6	118.5	109.5	104.8	109.5
85°	125.1	118.0	114.7	123.7	116.1	106.2	95.8	85.0	70.8	59.5	64.7
87.5°	48.6	48.6	72.7	111.9	100.5	82.1	70.3	59.9	37.3	28.8	29.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193531

CATALOG NUMBER: GLEON-AF-03-LED-E1-RW-8030-600

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1107.8	1107.8	1107.8	1107.8	1107.8	1107.8	1107.8	1107.8
2.5°	1109.7	1110.6	1110.2	1109.7	1109.7	1109.2	1109.7	1109.7
5°	1118.2	1120.5	1120.5	1121.5	1121.5	1122.0	1122.4	1122.0
7.5°	1130.9	1135.2	1138.0	1141.3	1141.8	1142.2	1143.2	1142.2
10°	1143.7	1152.2	1158.3	1164.4	1167.3	1168.2	1169.2	1169.2
12.5°	1159.7	1171.5	1182.4	1193.2	1198.4	1201.2	1201.2	1203.1
15°	1186.1	1197.9	1210.7	1225.3	1234.3	1239.0	1240.4	1240.4
17.5°	1223.4	1233.8	1244.7	1258.8	1270.2	1276.3	1277.7	1277.2
20°	1266.9	1276.8	1282.9	1291.9	1301.8	1308.9	1310.8	1310.8
22.5°	1316.4	1322.1	1323.0	1325.9	1333.9	1343.3	1347.6	1348.5
25°	1371.2	1372.6	1368.8	1368.8	1374.0	1383.0	1387.2	1387.7
27.5°	1442.0	1434.9	1425.4	1422.1	1425.4	1435.8	1441.0	1442.9
30°	1530.2	1513.2	1491.5	1479.7	1477.8	1491.5	1501.0	1502.4
32.5°	1631.2	1606.7	1577.9	1553.8	1547.7	1556.2	1567.5	1567.0
35°	1751.1	1721.9	1686.9	1656.3	1642.1	1650.6	1666.6	1668.5
37.5°	1889.4	1851.2	1811.1	1772.4	1750.2	1752.5	1769.5	1775.2
40°	2043.8	1994.2	1943.7	1891.8	1860.2	1854.0	1874.8	1878.1
42.5°	2209.0	2145.3	2081.5	2017.3	1976.7	1967.3	1991.4	1990.0
45°	2385.0	2303.8	2229.3	2158.5	2110.3	2096.2	2116.0	2116.0
47.5°	2574.3	2474.2	2385.5	2305.3	2252.9	2232.6	2251.5	2252.9
50°	2774.9	2668.7	2564.4	2475.2	2412.4	2386.4	2411.0	2414.8
52.5°	2974.6	2871.2	2765.9	2664.0	2588.0	2556.4	2584.7	2597.0
55°	3177.1	3075.6	2975.0	2875.4	2785.3	2748.0	2778.2	2793.8
57.5°	3390.9	3296.9	3201.1	3100.6	3013.7	2955.7	2987.8	3008.5
60°	3641.5	3561.3	3461.7	3350.7	3263.0	3204.0	3222.4	3240.8
62.5°	3839.7	3870.9	3786.4	3658.0	3545.2	3469.7	3487.6	3507.0
65°	3743.9	4063.5	4138.5	4008.7	3852.5	3735.0	3727.4	3737.3
67.5°	3129.4	3750.1	4202.7	4326.4	4195.6	4032.3	4002.1	4016.7
70°	2093.3	2866.5	3665.1	4259.8	4417.9	4354.7	4325.0	4333.9
72.5°	1005.4	1669.5	2486.5	3277.1	3758.6	3979.5	4050.3	4084.7
75°	367.7	662.7	1198.4	1805.9	2180.2	2523.8	2748.0	2839.6
77.5°	221.8	267.6	382.8	576.3	652.8	730.7	700.5	715.6
80°	164.3	185.5	210.0	236.0	244.5	244.5	235.1	227.5
82.5°	115.2	128.9	140.7	154.8	158.6	151.5	124.6	99.1
85°	74.1	80.2	85.4	94.4	92.0	87.8	59.0	52.4
87.5°	34.0	38.7	40.6	44.8	43.0	41.1	29.3	24.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)