

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: P191800

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191800  
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-02-LED-E1-RW-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10058 lumens  
Efficiency: N/A  
Efficacy: 118.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G3

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

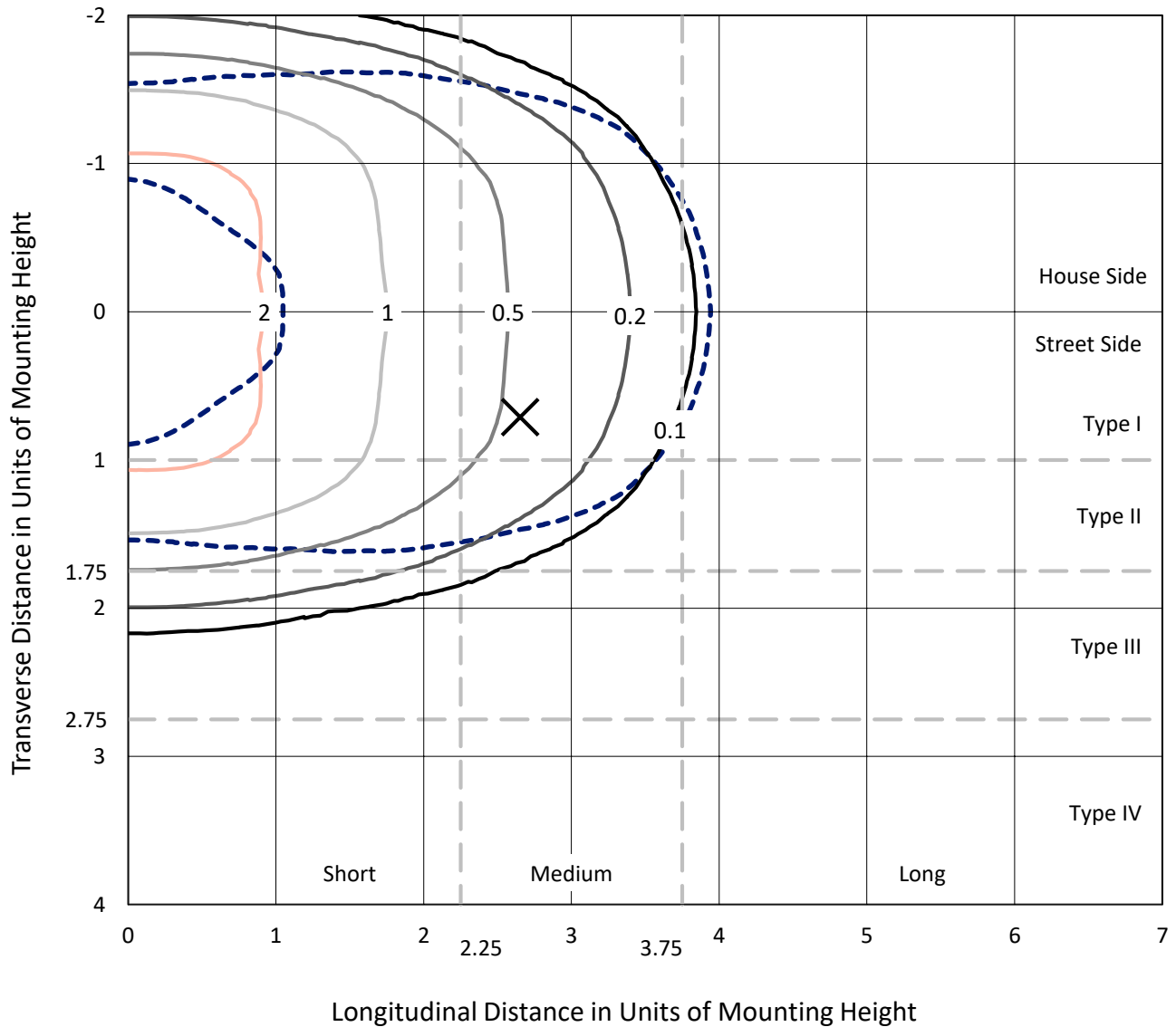


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

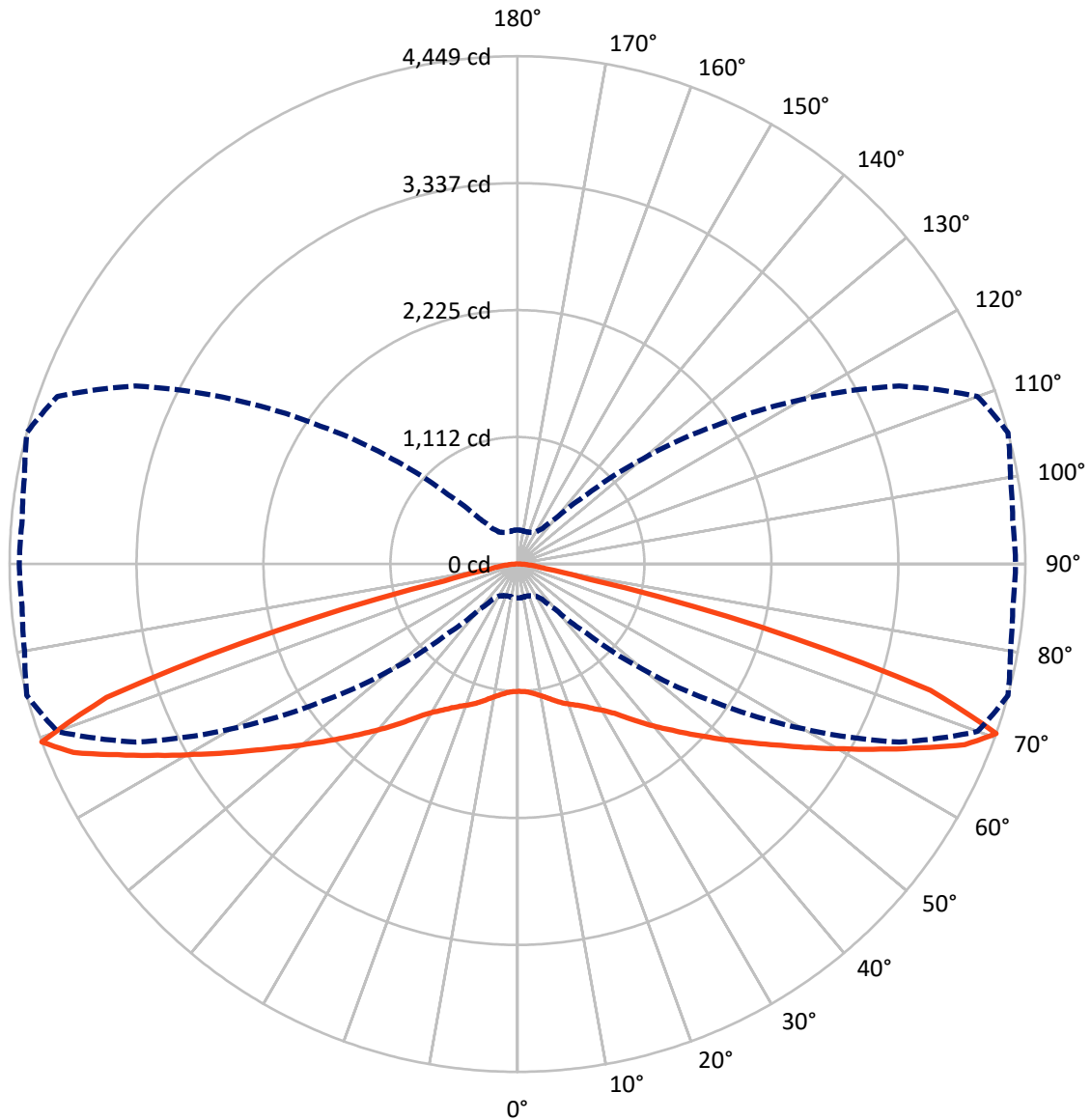


Based on 20 foot mounting height. Maximum calculated value = 2.8 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5029.0	0.0	5029.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5029.0	0.0	5029.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10058.0	0.0	10058.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.0	1.1
10°-20°	332.5	3.3
20°-30°	625.8	6.2
30°-40°	1108.1	11.0
40°-50°	1853.1	18.4
50°-60°	2582.3	25.7
60°-70°	2394.7	23.8
70°-80°	954.3	9.5
80°-90°	100.3	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°	10058.0	100.0
0°-180°	10058.0	100.0



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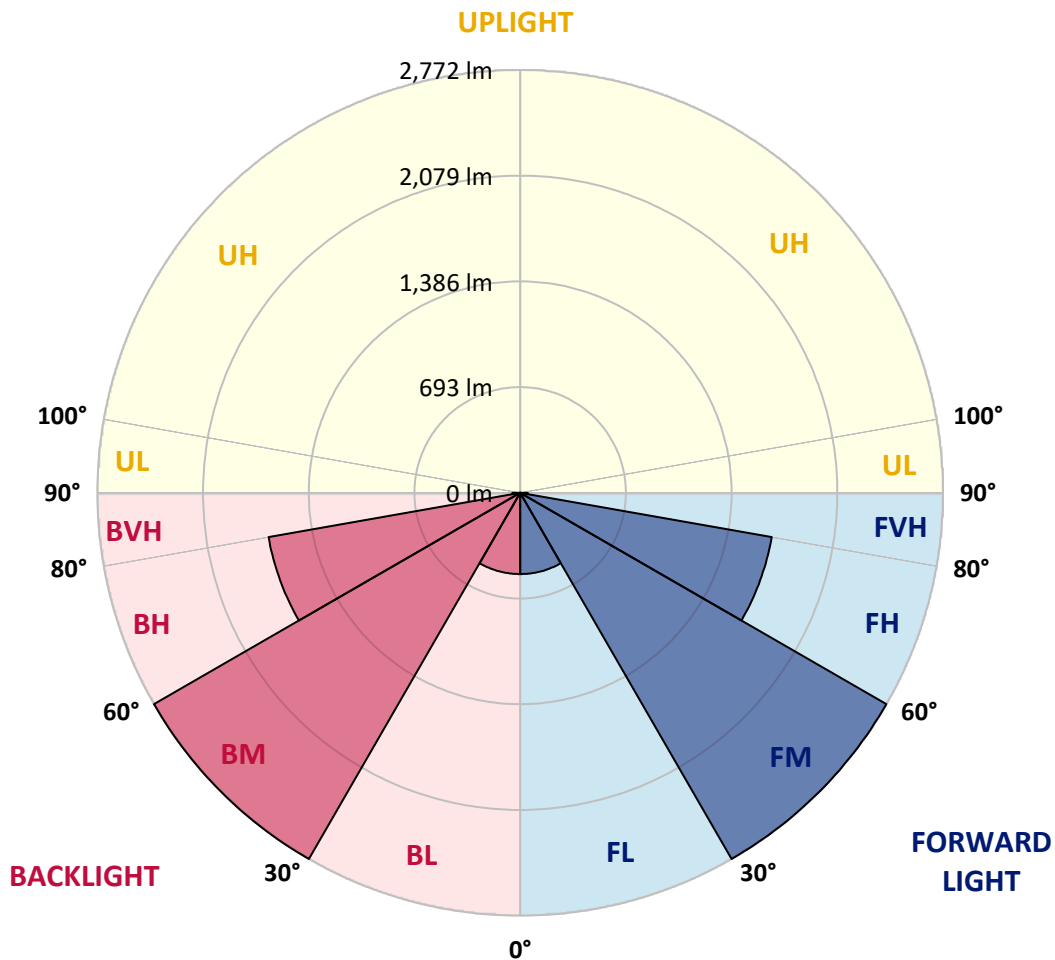
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.6	5.3			
FM (30°-60°)	2771.7	27.6			
FH (60°-80°)	1674.5	16.6			G1/1800
FVH (80°-90°)	50.2	0.5			G1/100
BL (0°-30°)	532.6	5.3	B2/1000		
BM (30°-60°)	2771.7	27.6	B3/5000		
BH (60°-80°)	1674.5	16.6	B3/2500		G3/2500
BVH (80°-90°)	50.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1115.7	1115.7	1115.7	1115.7	1115.7	1115.7	1115.7	1115.7	1115.7	1115.7	1115.7
2.5°	1113.8	1112.8	1113.8	1113.3	1114.2	1114.2	1115.2	1117.1	1117.1	1118.5	1118.0
5°	1102.8	1102.4	1103.8	1105.2	1106.6	1109.5	1112.3	1116.6	1119.9	1122.3	1124.7
7.5°	1081.4	1081.4	1083.3	1086.7	1090.0	1096.2	1102.8	1111.4	1119.9	1127.1	1133.3
10°	1063.9	1064.8	1067.2	1072.9	1078.6	1088.1	1097.1	1109.5	1121.4	1133.3	1142.8
12.5°	1053.4	1054.8	1059.1	1067.7	1077.2	1090.0	1103.8	1119.5	1132.8	1147.0	1156.5
15°	1056.7	1057.7	1063.9	1074.3	1086.7	1102.8	1121.4	1139.9	1155.6	1170.8	1183.6
17.5°	1075.3	1076.7	1083.8	1095.7	1108.5	1127.6	1147.5	1168.4	1187.9	1205.0	1220.7
20°	1108.5	1110.0	1119.0	1131.8	1147.0	1166.5	1186.5	1208.4	1230.2	1248.3	1265.9
22.5°	1155.6	1158.0	1166.5	1179.4	1196.5	1217.4	1241.2	1264.5	1285.4	1302.0	1317.7
25°	1217.4	1222.6	1230.7	1245.0	1263.0	1282.0	1307.7	1331.5	1351.4	1367.1	1378.5
27.5°	1304.9	1312.0	1318.2	1332.0	1349.5	1367.6	1393.3	1414.2	1433.2	1448.4	1457.0
30°	1420.8	1428.0	1434.2	1447.5	1463.6	1480.7	1505.0	1523.5	1535.4	1547.3	1546.8
32.5°	1561.6	1569.2	1571.5	1585.8	1602.4	1621.0	1642.8	1653.3	1662.8	1664.2	1655.7
35°	1718.9	1722.7	1732.2	1751.2	1770.2	1785.4	1806.4	1811.6	1811.6	1804.5	1785.4
37.5°	1891.5	1893.8	1907.1	1928.5	1948.0	1963.7	1978.0	1988.4	1983.2	1968.0	1936.1
40°	2080.6	2084.9	2103.9	2123.0	2144.8	2159.6	2174.8	2176.7	2171.4	2149.1	2105.8
42.5°	2261.3	2265.1	2284.1	2314.0	2342.6	2363.0	2377.3	2380.1	2363.5	2343.0	2289.3
45°	2416.7	2426.7	2451.4	2486.6	2528.0	2557.0	2576.4	2584.5	2569.8	2543.2	2480.9
47.5°	2539.8	2549.8	2585.0	2626.8	2678.2	2725.2	2757.6	2774.7	2770.9	2750.9	2682.9
50°	2630.2	2639.7	2677.7	2729.0	2788.9	2847.4	2902.5	2943.4	2957.7	2948.6	2886.4
52.5°	2640.6	2656.3	2701.0	2769.9	2847.9	2927.7	3006.2	3075.6	3122.6	3129.8	3083.7
55°	2494.7	2510.4	2572.2	2674.4	2790.4	2920.6	3046.1	3163.0	3255.7	3303.3	3279.0
57.5°	2150.5	2178.6	2243.7	2363.5	2534.1	2729.0	2929.2	3136.9	3325.6	3451.6	3475.8
60°	1648.1	1681.3	1746.9	1874.3	2064.5	2296.9	2564.1	2871.2	3204.4	3487.7	3656.9
62.5°	1057.2	1088.6	1157.5	1268.3	1423.2	1675.2	1961.8	2326.4	2774.2	3221.5	3624.6
65°	543.3	560.4	596.6	663.6	784.3	972.6	1229.8	1593.4	2105.4	2657.3	3240.0
67.5°	344.2	347.5	355.6	365.1	396.0	461.1	580.9	807.6	1228.8	1804.5	2486.6
70°	297.6	297.6	293.8	292.3	296.1	305.2	323.7	376.5	518.6	856.6	1434.2
72.5°	272.4	269.5	262.9	257.6	256.7	256.7	260.5	268.6	291.4	348.9	561.4
75°	251.0	242.9	233.9	227.7	225.3	222.9	222.5	223.9	228.6	237.7	268.1
77.5°	224.8	214.4	203.9	197.7	194.9	191.6	188.7	185.4	183.0	185.9	199.2
80°	193.5	181.6	173.5	169.7	166.9	162.1	155.9	150.2	145.0	144.0	152.1
82.5°	155.9	142.1	142.6	144.0	138.8	132.1	125.5	119.3	110.3	105.5	110.3
85°	126.0	118.8	115.5	124.5	116.9	107.0	96.5	85.6	71.3	59.9	65.1
87.5°	49.0	49.0	73.2	112.7	101.3	82.7	70.8	60.4	37.6	29.0	29.5
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°	1115.7	1115.7	1115.7	1115.7	1115.7	1115.7	1115.7	1115.7
2.5°	1117.6	1118.5	1118.0	1117.6	1117.6	1117.1	1117.6	1117.6
5°	1126.1	1128.5	1128.5	1129.5	1129.5	1129.9	1130.4	1129.9
7.5°	1139.0	1143.2	1146.1	1149.4	1149.9	1150.4	1151.3	1150.4
10°	1151.8	1160.4	1166.5	1172.7	1175.6	1176.5	1177.5	1177.5
12.5°	1168.0	1179.8	1190.8	1201.7	1206.9	1209.8	1209.8	1211.7
15°	1194.6	1206.5	1219.3	1234.0	1243.1	1247.8	1249.2	1249.2
17.5°	1232.1	1242.6	1253.5	1267.8	1279.2	1285.4	1286.8	1286.3
20°	1275.9	1285.8	1292.0	1301.1	1311.0	1318.2	1320.1	1320.1
22.5°	1325.8	1331.5	1332.4	1335.3	1343.4	1352.9	1357.1	1358.1
25°	1380.9	1382.3	1378.5	1378.5	1383.8	1392.8	1397.1	1397.6
27.5°	1452.2	1445.1	1435.6	1432.3	1435.6	1446.0	1451.3	1453.2
30°	1541.1	1524.0	1502.1	1490.2	1488.3	1502.1	1511.6	1513.1
32.5°	1642.8	1618.1	1589.1	1564.9	1558.7	1567.3	1578.7	1578.2
35°	1763.6	1734.1	1698.9	1668.0	1653.8	1662.3	1678.5	1680.4
37.5°	1902.9	1864.4	1824.0	1785.0	1762.6	1765.0	1782.1	1787.8
40°	2058.3	2008.4	1957.5	1905.2	1873.4	1867.2	1888.1	1891.5
42.5°	2224.7	2160.5	2096.3	2031.7	1990.8	1981.3	2005.5	2004.1
45°	2402.0	2320.2	2245.1	2173.8	2125.3	2111.1	2131.0	2131.0
47.5°	2592.6	2491.8	2402.5	2321.7	2268.9	2248.4	2267.5	2268.9
50°	2794.6	2687.7	2582.6	2492.8	2429.6	2403.4	2428.1	2431.9
52.5°	2995.7	2891.6	2785.6	2682.9	2606.4	2574.5	2603.1	2615.4
55°	3199.6	3097.4	2996.2	2895.9	2805.1	2767.5	2798.0	2813.6
57.5°	3415.0	3320.4	3223.9	3122.6	3035.2	2976.7	3009.0	3029.9
60°	3667.4	3586.6	3486.3	3374.6	3286.2	3226.7	3245.3	3263.8
62.5°	3867.0	3898.4	3813.3	3684.0	3570.4	3494.4	3512.4	3531.9
65°	3770.5	4092.4	4167.9	4037.2	3879.9	3761.5	3753.9	3763.9
67.5°	3151.6	3776.7	4232.6	4357.1	4225.5	4061.0	4030.6	4045.3
70°	2108.2	2886.9	3691.2	4290.1	4449.4	4385.7	4355.7	4364.7
72.5°	1012.5	1681.3	2504.2	3300.4	3785.3	4007.7	4079.1	4113.8
75°	370.3	667.4	1206.9	1818.7	2195.7	2541.7	2767.5	2859.8
77.5°	223.4	269.5	385.5	580.4	657.4	735.9	705.4	720.6
80°	165.4	186.8	211.5	237.7	246.2	246.2	236.7	229.1
82.5°	116.0	129.8	141.7	155.9	159.7	152.6	125.5	99.8
85°	74.6	80.8	86.0	95.1	92.7	88.4	59.4	52.8
87.5°	34.2	39.0	40.9	45.2	43.3	41.4	29.5	24.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)