

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: P193541

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193541  
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-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12247 lumens  
Efficiency: N/A  
Efficacy: 98.8 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): 124  
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

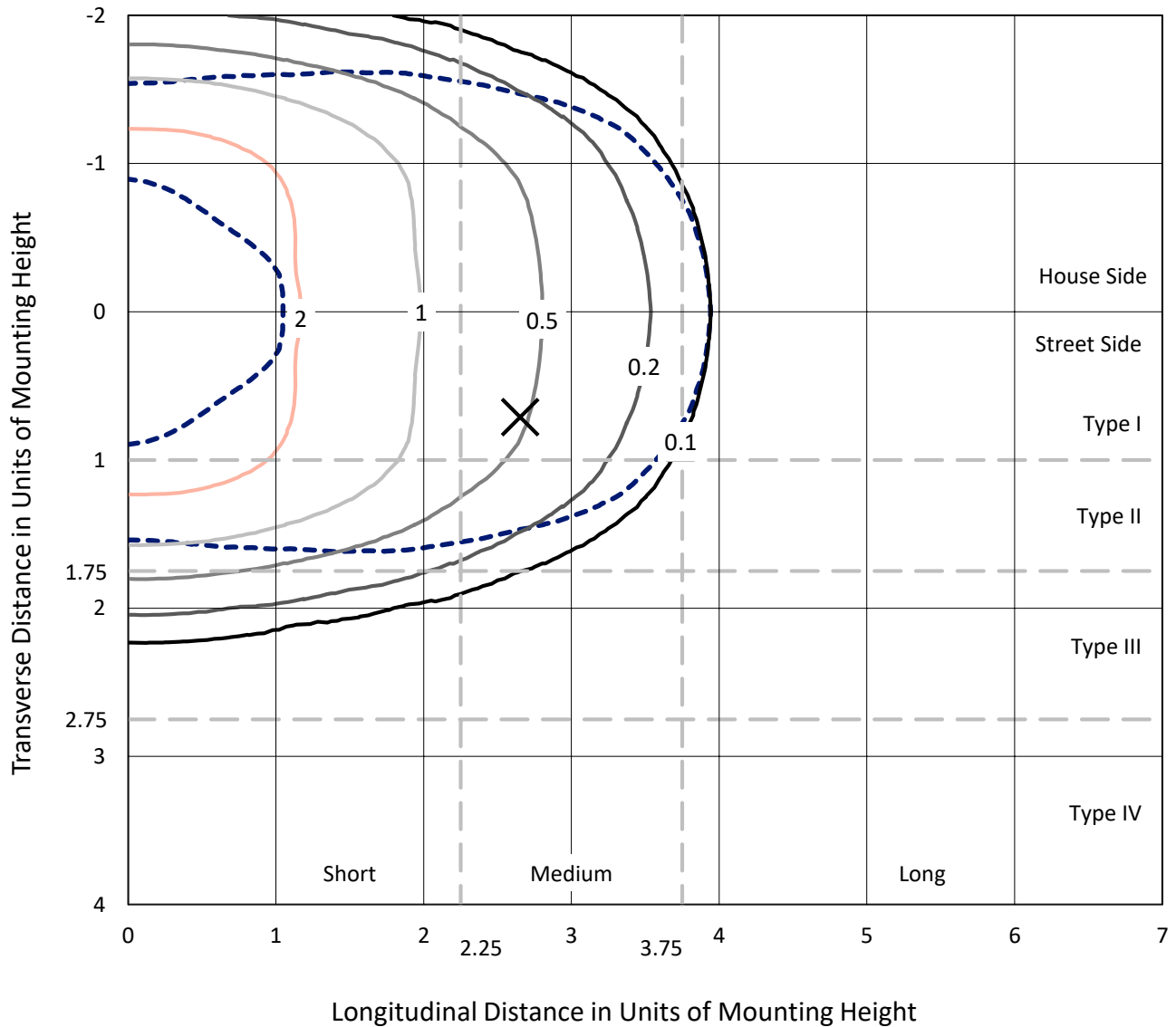


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### Iso-Footcandle Lines of Horizontal Illumination

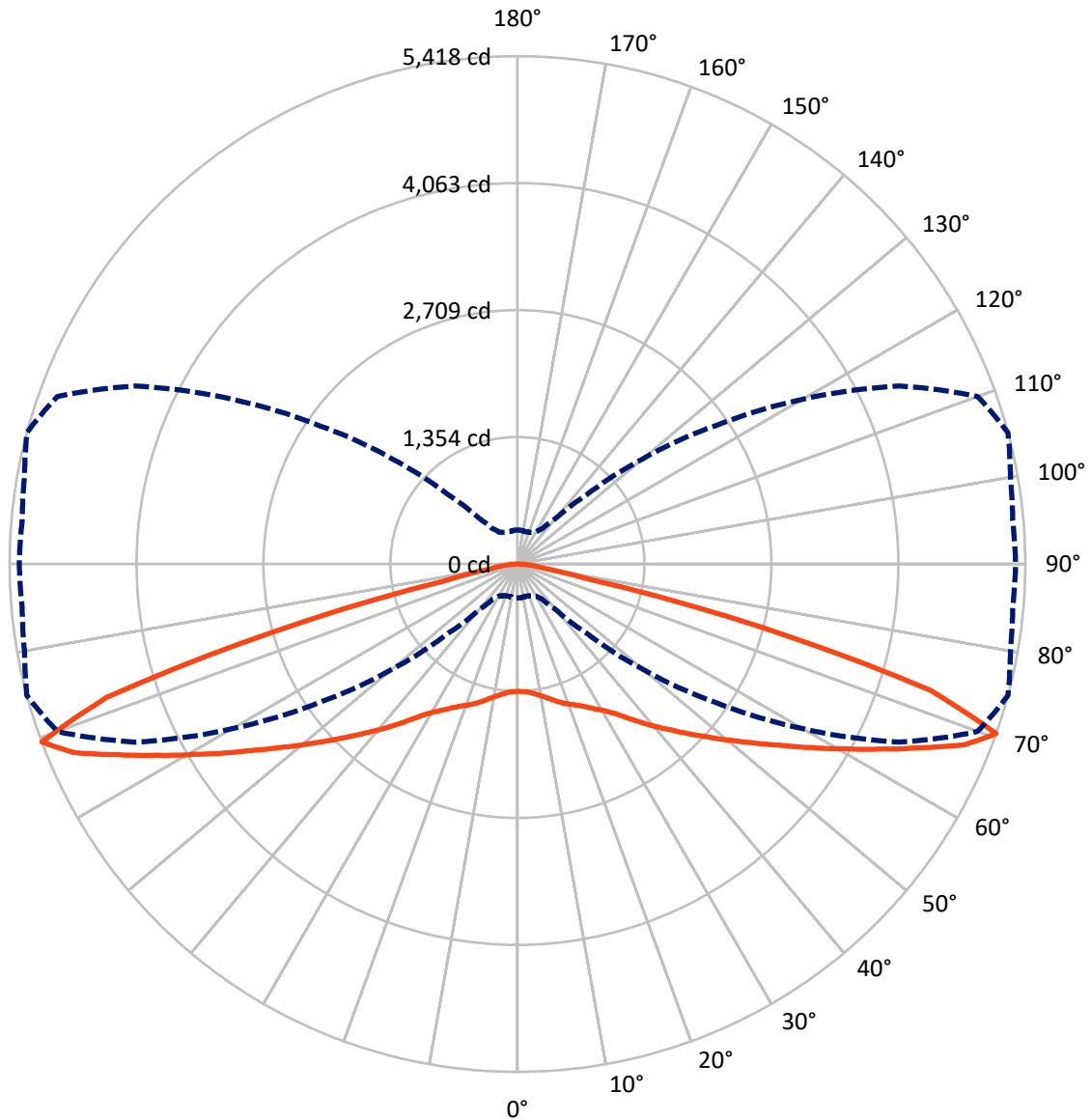
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.4 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	6123.5	0.0	6123.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6123.5	0.0	6123.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12247.0	0.0	12247.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.3	1.1
10°-20°	404.8	3.3
20°-30°	761.9	6.2
30°-40°	1349.3	11.0
40°-50°	2256.4	18.4
50°-60°	3144.3	25.7
60°-70°	2915.8	23.8
70°-80°	1162.0	9.5
80°-90°	122.2	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°	12247.0	100.0
0°-180°	12247.0	100.0



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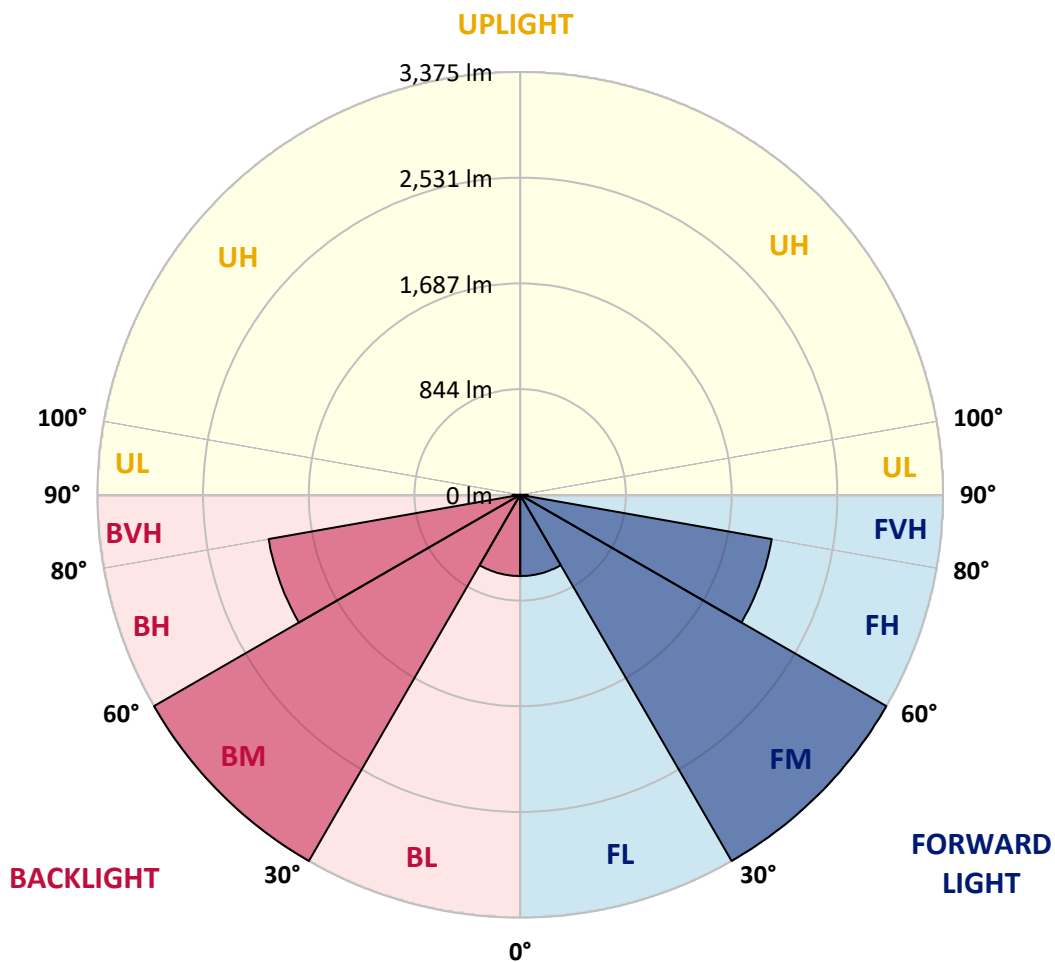
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	648.5	5.3			
FM (30°-60°)	3375.0	27.6			
FH (60°-80°)	2038.9	16.6			G2/5000
FVH (80°-90°)	61.1	0.5			G1/100
BL (0°-30°)	648.5	5.3	B2/1000		
BM (30°-60°)	3375.0	27.6	B3/5000		
BH (60°-80°)	2038.9	16.6	B3/2500		G3/2500
BVH (80°-90°)	61.1	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°	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5
2.5°	1356.2	1355.0	1356.2	1355.6	1356.7	1356.7	1357.9	1360.2	1360.2	1362.0	1361.4
5°	1342.8	1342.3	1344.0	1345.7	1347.5	1351.0	1354.4	1359.6	1363.7	1366.6	1369.5
7.5°	1316.8	1316.8	1319.1	1323.2	1327.2	1334.7	1342.8	1353.3	1363.7	1372.4	1379.9
10°	1295.4	1296.5	1299.4	1306.4	1313.3	1324.9	1335.9	1351.0	1365.4	1379.9	1391.5
12.5°	1282.7	1284.4	1289.6	1300.0	1311.6	1327.2	1344.0	1363.1	1379.3	1396.7	1408.3
15°	1286.7	1287.9	1295.4	1308.1	1323.2	1342.8	1365.4	1388.0	1407.1	1425.6	1441.2
17.5°	1309.3	1311.0	1319.7	1334.2	1349.8	1372.9	1397.3	1422.7	1446.5	1467.3	1486.4
20°	1349.8	1351.5	1362.5	1378.2	1396.7	1420.4	1444.7	1471.3	1498.0	1520.0	1541.4
22.5°	1407.1	1410.0	1420.4	1436.0	1456.9	1482.3	1511.3	1539.6	1565.1	1585.4	1604.5
25°	1482.3	1488.7	1498.6	1515.9	1537.9	1561.1	1592.3	1621.3	1645.6	1664.7	1678.6
27.5°	1588.8	1597.5	1605.1	1621.8	1643.3	1665.2	1696.5	1722.0	1745.1	1763.6	1774.1
30°	1730.1	1738.8	1746.3	1762.5	1782.2	1803.0	1832.5	1855.1	1869.6	1884.0	1883.5
32.5°	1901.4	1910.7	1913.6	1930.9	1951.2	1973.8	2000.4	2013.1	2024.7	2026.4	2016.0
35°	2093.0	2097.6	2109.2	2132.4	2155.5	2174.0	2199.5	2205.9	2205.9	2197.2	2174.0
37.5°	2303.1	2306.0	2322.2	2348.3	2372.0	2391.1	2408.4	2421.2	2414.8	2396.3	2357.5
40°	2533.5	2538.7	2561.8	2585.0	2611.6	2629.6	2648.1	2650.4	2644.0	2616.8	2564.1
42.5°	2753.4	2758.1	2781.2	2817.7	2852.4	2877.3	2894.7	2898.1	2877.9	2853.0	2787.6
45°	2942.7	2954.8	2984.9	3027.8	3078.1	3113.4	3137.2	3147.0	3129.1	3096.7	3020.8
47.5°	3092.6	3104.8	3147.6	3198.5	3261.0	3318.3	3357.7	3378.5	3373.9	3349.6	3266.8
50°	3202.6	3214.2	3260.5	3323.0	3395.9	3467.1	3534.2	3584.0	3601.4	3590.4	3514.6
52.5°	3215.3	3234.4	3288.8	3372.8	3467.7	3564.9	3660.4	3744.9	3802.2	3810.9	3754.8
55°	3037.6	3056.7	3132.0	3256.4	3397.6	3556.2	3709.0	3851.4	3964.3	4022.2	3992.7
57.5°	2618.6	2652.7	2732.0	2877.9	3085.7	3323.0	3566.7	3819.6	4049.4	4202.8	4232.3
60°	2006.7	2047.3	2127.1	2282.3	2513.8	2796.8	3122.1	3496.0	3901.8	4246.8	4452.8
62.5°	1287.3	1325.5	1409.4	1544.3	1733.0	2039.7	2388.8	2832.7	3378.0	3922.6	4413.5
65°	661.6	682.4	726.4	808.0	955.0	1184.3	1497.4	1940.2	2563.6	3235.6	3945.2
67.5°	419.1	423.1	433.0	444.5	482.2	561.5	707.3	983.4	1496.2	2197.2	3027.8
70°	362.3	362.3	357.7	356.0	360.6	371.6	394.2	458.4	631.5	1043.0	1746.3
72.5°	331.7	328.2	320.1	313.7	312.6	312.6	317.2	327.0	354.8	424.8	683.6
75°	305.6	295.8	284.8	277.3	274.4	271.5	270.9	272.6	278.4	289.4	326.5
77.5°	273.8	261.0	248.3	240.8	237.3	233.3	229.8	225.7	222.8	226.3	242.5
80°	235.6	221.1	211.3	206.6	203.2	197.4	189.9	182.9	176.5	175.4	185.2
82.5°	189.9	173.1	173.6	175.4	169.0	160.9	152.8	145.3	134.3	128.5	134.3
85°	153.4	144.7	140.7	151.6	142.4	130.2	117.5	104.2	86.8	72.9	79.3
87.5°	59.6	59.6	89.1	137.2	123.3	100.7	86.2	73.5	45.7	35.3	35.9
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°	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5	1358.5
2.5°	1360.8	1362.0	1361.4	1360.8	1360.8	1360.2	1360.8	1360.8
5°	1371.2	1374.1	1374.1	1375.3	1375.3	1375.8	1376.4	1375.8
7.5°	1386.8	1392.0	1395.5	1399.6	1400.2	1400.7	1401.9	1400.7
10°	1402.5	1412.9	1420.4	1427.9	1431.4	1432.6	1433.7	1433.7
12.5°	1422.1	1436.6	1449.9	1463.2	1469.6	1473.1	1473.1	1475.4
15°	1454.6	1469.0	1484.7	1502.6	1513.6	1519.4	1521.1	1521.1
17.5°	1500.3	1513.0	1526.3	1543.7	1557.6	1565.1	1566.9	1566.3
20°	1553.5	1565.7	1573.2	1584.2	1596.4	1605.1	1607.4	1607.4
22.5°	1614.3	1621.3	1622.4	1625.9	1635.7	1647.3	1652.5	1653.7
25°	1681.5	1683.2	1678.6	1678.6	1684.9	1695.9	1701.1	1701.7
27.5°	1768.3	1759.6	1748.0	1744.0	1748.0	1760.8	1767.1	1769.4
30°	1876.5	1855.7	1829.1	1814.6	1812.3	1829.1	1840.6	1842.4
32.5°	2000.4	1970.3	1935.0	1905.5	1897.9	1908.4	1922.2	1921.7
35°	2147.4	2111.5	2068.7	2031.1	2013.7	2024.1	2043.8	2046.1
37.5°	2317.0	2270.1	2220.9	2173.4	2146.2	2149.1	2170.0	2176.9
40°	2506.3	2445.5	2383.6	2319.9	2281.1	2273.6	2299.1	2303.1
42.5°	2708.9	2630.7	2552.6	2473.9	2424.1	2412.5	2442.0	2440.3
45°	2924.7	2825.2	2733.7	2646.9	2587.9	2570.5	2594.8	2594.8
47.5°	3156.9	3034.1	2925.3	2826.9	2762.7	2737.8	2760.9	2762.7
50°	3402.9	3272.6	3144.7	3035.3	2958.3	2926.5	2956.6	2961.2
52.5°	3647.7	3520.9	3391.9	3266.8	3173.6	3134.9	3169.6	3184.6
55°	3896.0	3771.6	3648.3	3526.1	3415.6	3369.9	3406.9	3426.0
57.5°	4158.2	4043.0	3925.5	3802.2	3695.7	3624.5	3663.9	3689.4
60°	4465.6	4367.2	4245.0	4109.0	4001.3	3929.0	3951.6	3974.1
62.5°	4708.7	4746.9	4643.3	4485.8	4347.5	4254.9	4276.9	4300.6
65°	4591.2	4983.0	5075.0	4915.9	4724.3	4580.2	4570.9	4583.1
67.5°	3837.5	4598.7	5153.8	5305.4	5145.1	4944.8	4907.8	4925.7
70°	2567.0	3515.1	4494.5	5223.8	5417.7	5340.1	5303.7	5314.7
72.5°	1232.9	2047.3	3049.2	4018.7	4609.1	4880.0	4966.8	5009.1
75°	450.9	812.7	1469.6	2214.5	2673.5	3094.9	3369.9	3482.1
77.5°	272.0	328.2	469.4	706.7	800.5	896.0	859.0	877.5
80°	201.4	227.5	257.6	289.4	299.8	299.8	288.2	279.0
82.5°	141.2	158.0	172.5	189.9	194.5	185.8	152.8	121.6
85°	90.9	98.4	104.8	115.8	112.9	107.7	72.4	64.2
87.5°	41.7	47.5	49.8	55.0	52.7	50.4	35.9	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)