

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: P191791

Luminaire Tested: **GLEON-AF-03-LED-E1-RW-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191791  
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-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12239 lumens  
Efficiency: N/A  
Efficacy: 127.5 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

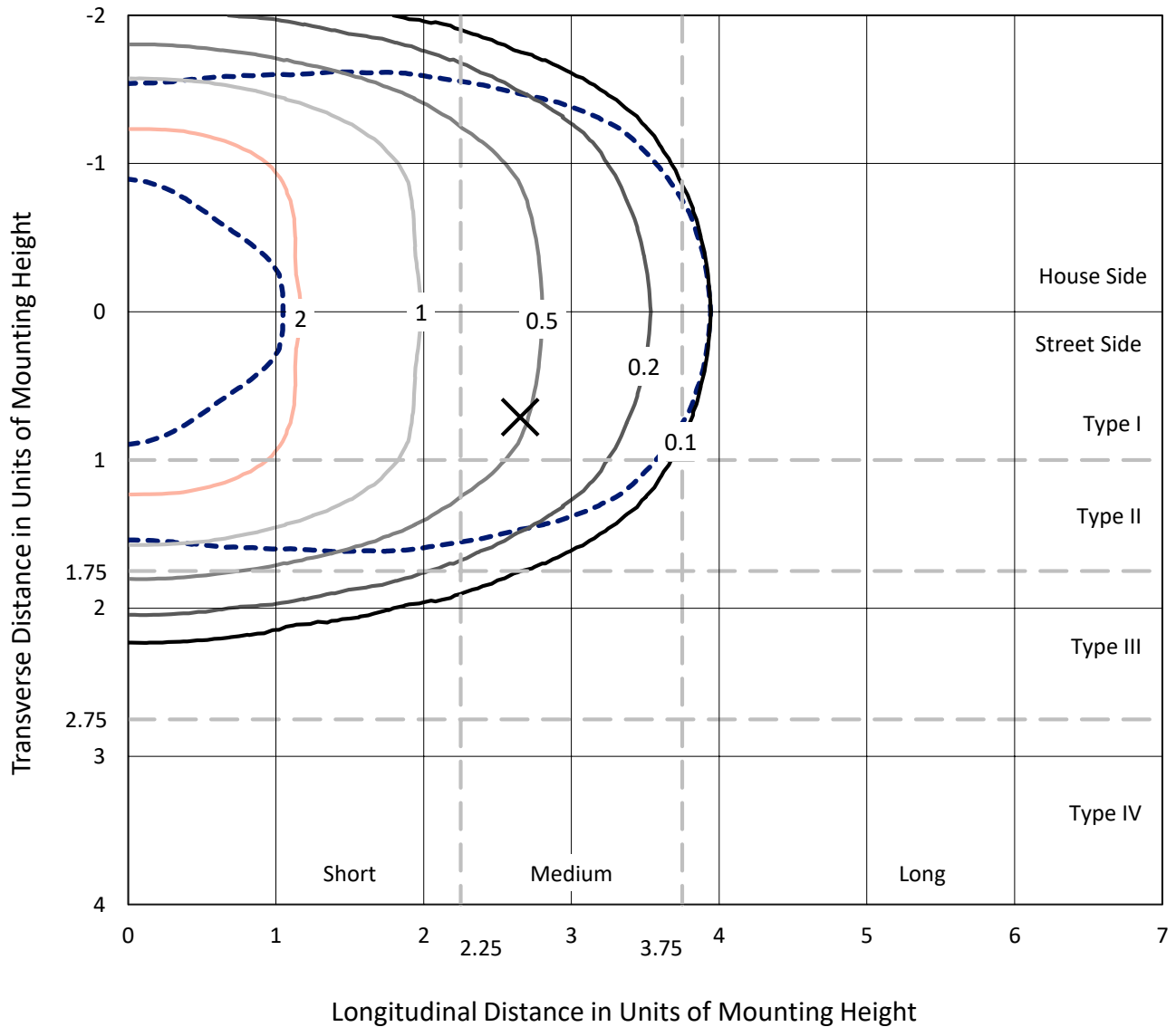


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

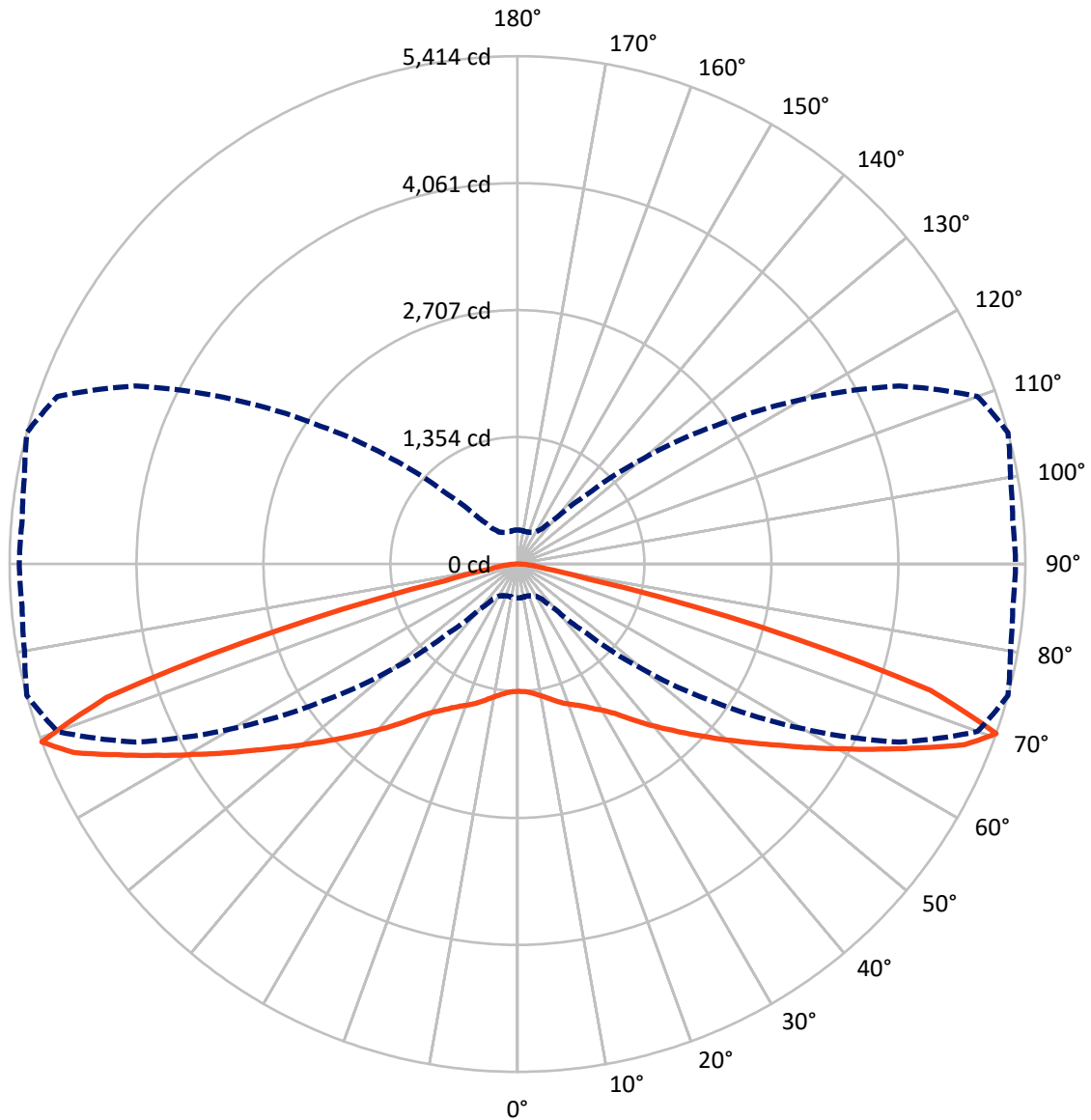


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc  
 Type II - Medium - Full Cutoff

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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	6119.5	0.0	6119.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6119.5	0.0	6119.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12239.0	0.0	12239.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	130.2	1.1
10°-20°	404.6	3.3
20°-30°	761.4	6.2
30°-40°	1348.4	11.0
40°-50°	2254.9	18.4
50°-60°	3142.2	25.7
60°-70°	2913.9	23.8
70°-80°	1161.3	9.5
80°-90°	122.1	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°	12239.0	100.0
0°-180°	12239.0	100.0



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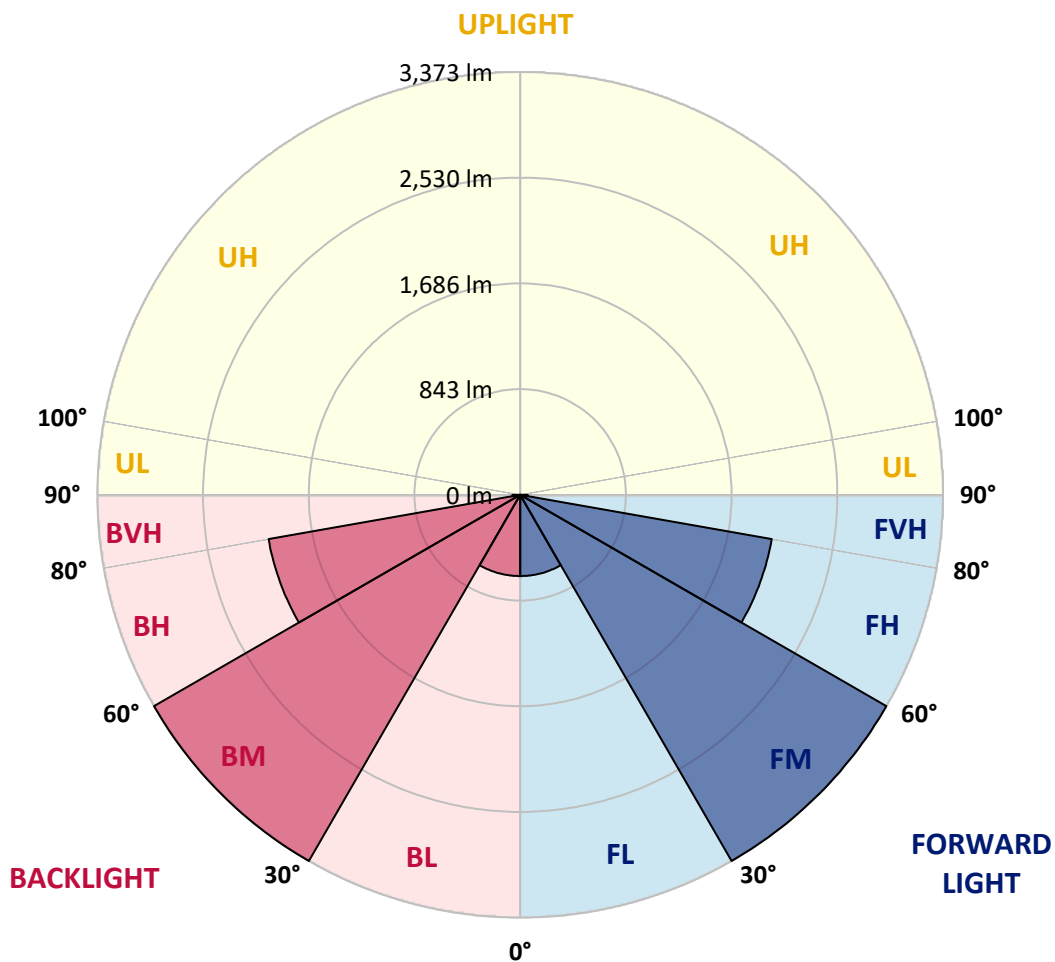
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	648.1	5.3			
FM	(30°-60°)	3372.8	27.6			
FH	(60°-80°)	2037.6	16.6			G2/5000
FVH	(80°-90°)	61.0	0.5			G1/100
BL	(0°-30°)	648.1	5.3	B2/1000		
BM	(30°-60°)	3372.8	27.6	B3/5000		
BH	(60°-80°)	2037.6	16.6	B3/2500		G3/2500
BVH	(80°-90°)	61.0	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°	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6
2.5°	1355.3	1354.1	1355.3	1354.7	1355.9	1355.9	1357.0	1359.3	1359.3	1361.1	1360.5
5°	1342.0	1341.4	1343.1	1344.9	1346.6	1350.1	1353.5	1358.7	1362.8	1365.7	1368.6
7.5°	1315.9	1315.9	1318.3	1322.3	1326.4	1333.9	1342.0	1352.4	1362.8	1371.5	1379.0
10°	1294.5	1295.7	1298.6	1305.5	1312.5	1324.0	1335.0	1350.1	1364.5	1379.0	1390.6
12.5°	1281.8	1283.6	1288.8	1299.2	1310.7	1326.4	1343.1	1362.2	1378.4	1395.8	1407.3
15°	1285.9	1287.0	1294.5	1307.3	1322.3	1342.0	1364.5	1387.1	1406.2	1424.7	1440.3
17.5°	1308.4	1310.2	1318.8	1333.3	1348.9	1372.1	1396.3	1421.8	1445.5	1466.3	1485.4
20°	1348.9	1350.6	1361.6	1377.3	1395.8	1419.5	1443.8	1470.4	1497.0	1519.0	1540.4
22.5°	1406.2	1409.1	1419.5	1435.1	1455.9	1481.4	1510.3	1538.6	1564.1	1584.3	1603.4
25°	1481.4	1487.7	1497.6	1514.9	1536.9	1560.0	1591.3	1620.2	1644.5	1663.6	1677.5
27.5°	1587.8	1596.5	1604.0	1620.8	1642.2	1664.2	1695.4	1720.8	1744.0	1762.5	1772.9
30°	1728.9	1737.6	1745.1	1761.3	1781.0	1801.8	1831.3	1853.9	1868.3	1882.8	1882.2
32.5°	1900.2	1909.4	1912.3	1929.7	1949.9	1972.5	1999.1	2011.8	2023.4	2025.1	2014.7
35°	2091.6	2096.3	2107.8	2131.0	2154.1	2172.6	2198.1	2204.4	2204.4	2195.7	2172.6
37.5°	2301.6	2304.5	2320.7	2346.7	2370.4	2389.5	2406.9	2419.6	2413.2	2394.7	2356.0
40°	2531.8	2537.0	2560.2	2583.3	2609.9	2627.8	2646.3	2648.7	2642.3	2615.1	2562.5
42.5°	2751.6	2756.2	2779.4	2815.8	2850.5	2875.4	2892.8	2896.2	2876.0	2851.1	2785.7
45°	2940.8	2952.9	2983.0	3025.8	3076.1	3111.4	3135.1	3145.0	3127.0	3094.6	3018.9
47.5°	3090.6	3102.7	3145.5	3196.4	3258.9	3316.2	3355.5	3376.3	3371.7	3347.4	3264.7
50°	3200.5	3212.1	3258.3	3320.8	3393.7	3464.8	3531.9	3581.7	3599.0	3588.0	3512.3
52.5°	3213.2	3232.3	3286.7	3370.5	3465.4	3562.6	3658.0	3742.5	3799.7	3808.4	3752.3
55°	3035.6	3054.7	3129.9	3254.3	3395.4	3553.9	3706.6	3848.9	3961.7	4019.6	3990.1
57.5°	2616.8	2651.0	2730.2	2876.0	3083.6	3320.8	3564.3	3817.1	4046.7	4200.0	4229.5
60°	2005.4	2045.9	2125.8	2280.8	2512.1	2795.0	3120.1	3493.8	3899.2	4244.0	4449.9
62.5°	1286.4	1324.6	1408.5	1543.3	1731.8	2038.4	2387.2	2830.9	3375.8	3920.1	4410.6
65°	661.2	682.0	725.9	807.5	954.4	1183.5	1496.4	1938.9	2561.9	3233.5	3942.6
67.5°	418.8	422.8	432.7	444.2	481.8	561.1	706.8	982.8	1495.3	2195.7	3025.8
70°	362.1	362.1	357.5	355.7	360.4	371.4	393.9	458.1	631.1	1042.3	1745.1
72.5°	331.4	328.0	319.9	313.5	312.4	312.4	317.0	326.8	354.6	424.6	683.1
75°	305.4	295.6	284.6	277.1	274.2	271.3	270.7	272.4	278.2	289.2	326.2
77.5°	273.6	260.9	248.1	240.6	237.2	233.1	229.6	225.6	222.7	226.2	242.4
80°	235.4	221.0	211.1	206.5	203.0	197.2	189.7	182.8	176.4	175.3	185.1
82.5°	189.7	173.0	173.5	175.3	168.9	160.8	152.7	145.2	134.2	128.4	134.2
85°	153.3	144.6	140.6	151.6	142.3	130.1	117.4	104.1	86.8	72.9	79.2
87.5°	59.6	59.6	89.1	137.1	123.2	100.6	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°	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6	1357.6
2.5°	1359.9	1361.1	1360.5	1359.9	1359.9	1359.3	1359.9	1359.9
5°	1370.3	1373.2	1373.2	1374.4	1374.4	1374.9	1375.5	1374.9
7.5°	1385.9	1391.1	1394.6	1398.7	1399.2	1399.8	1401.0	1399.8
10°	1401.6	1412.0	1419.5	1427.0	1430.5	1431.6	1432.8	1432.8
12.5°	1421.2	1435.7	1449.0	1462.3	1468.7	1472.1	1472.1	1474.4
15°	1453.6	1468.1	1483.7	1501.6	1512.6	1518.4	1520.1	1520.1
17.5°	1499.3	1512.0	1525.3	1542.7	1556.6	1564.1	1565.8	1565.2
20°	1552.5	1564.7	1572.2	1583.2	1595.3	1604.0	1606.3	1606.3
22.5°	1613.3	1620.2	1621.4	1624.8	1634.7	1646.2	1651.4	1652.6
25°	1680.4	1682.1	1677.5	1677.5	1683.8	1694.8	1700.0	1700.6
27.5°	1767.1	1758.4	1746.9	1742.8	1746.9	1759.6	1766.0	1768.3
30°	1875.3	1854.5	1827.9	1813.4	1811.1	1827.9	1839.4	1841.2
32.5°	1999.1	1969.0	1933.7	1904.2	1896.7	1907.1	1921.0	1920.4
35°	2146.0	2110.1	2067.3	2029.7	2012.4	2022.8	2042.5	2044.8
37.5°	2315.5	2268.6	2219.5	2172.0	2144.8	2147.7	2168.6	2175.5
40°	2504.6	2443.9	2382.0	2318.4	2279.6	2272.1	2297.5	2301.6
42.5°	2707.1	2629.0	2550.9	2472.2	2422.5	2410.9	2440.4	2438.7
45°	2922.8	2823.3	2732.0	2645.2	2586.2	2568.8	2593.1	2593.1
47.5°	3154.8	3032.2	2923.4	2825.1	2760.9	2736.0	2759.1	2760.9
50°	3400.6	3270.5	3142.6	3033.3	2956.4	2924.6	2954.7	2959.3
52.5°	3645.3	3518.6	3389.6	3264.7	3171.6	3132.8	3167.5	3182.6
55°	3893.5	3769.1	3645.9	3523.8	3413.4	3367.7	3404.7	3423.8
57.5°	4155.5	4040.4	3923.0	3799.7	3693.3	3622.2	3661.5	3687.0
60°	4462.6	4364.3	4242.3	4106.3	3998.7	3926.4	3949.0	3971.5
62.5°	4705.6	4743.8	4640.2	4482.9	4344.6	4252.1	4274.1	4297.8
65°	4588.2	4979.8	5071.7	4912.7	4721.2	4577.2	4567.9	4580.1
67.5°	3835.0	4595.7	5150.4	5301.9	5141.7	4941.6	4904.6	4922.5
70°	2565.4	3512.8	4491.6	5220.4	5414.2	5336.7	5300.2	5311.2
72.5°	1232.1	2045.9	3047.2	4016.1	4606.1	4876.8	4963.6	5005.8
75°	450.6	812.1	1468.7	2213.1	2671.8	3092.9	3367.7	3479.9
77.5°	271.9	328.0	469.1	706.3	800.0	895.4	858.4	876.9
80°	201.3	227.3	257.4	289.2	299.6	299.6	288.1	278.8
82.5°	141.1	157.9	172.4	189.7	194.4	185.7	152.7	121.5
85°	90.8	98.3	104.7	115.7	112.8	107.6	72.3	64.2
87.5°	41.6	47.4	49.7	55.0	52.6	50.3	35.9	30.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)