

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: P190991

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190991  
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-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12519.9 lumens  
Efficiency: N/A  
Efficacy: 130.4 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

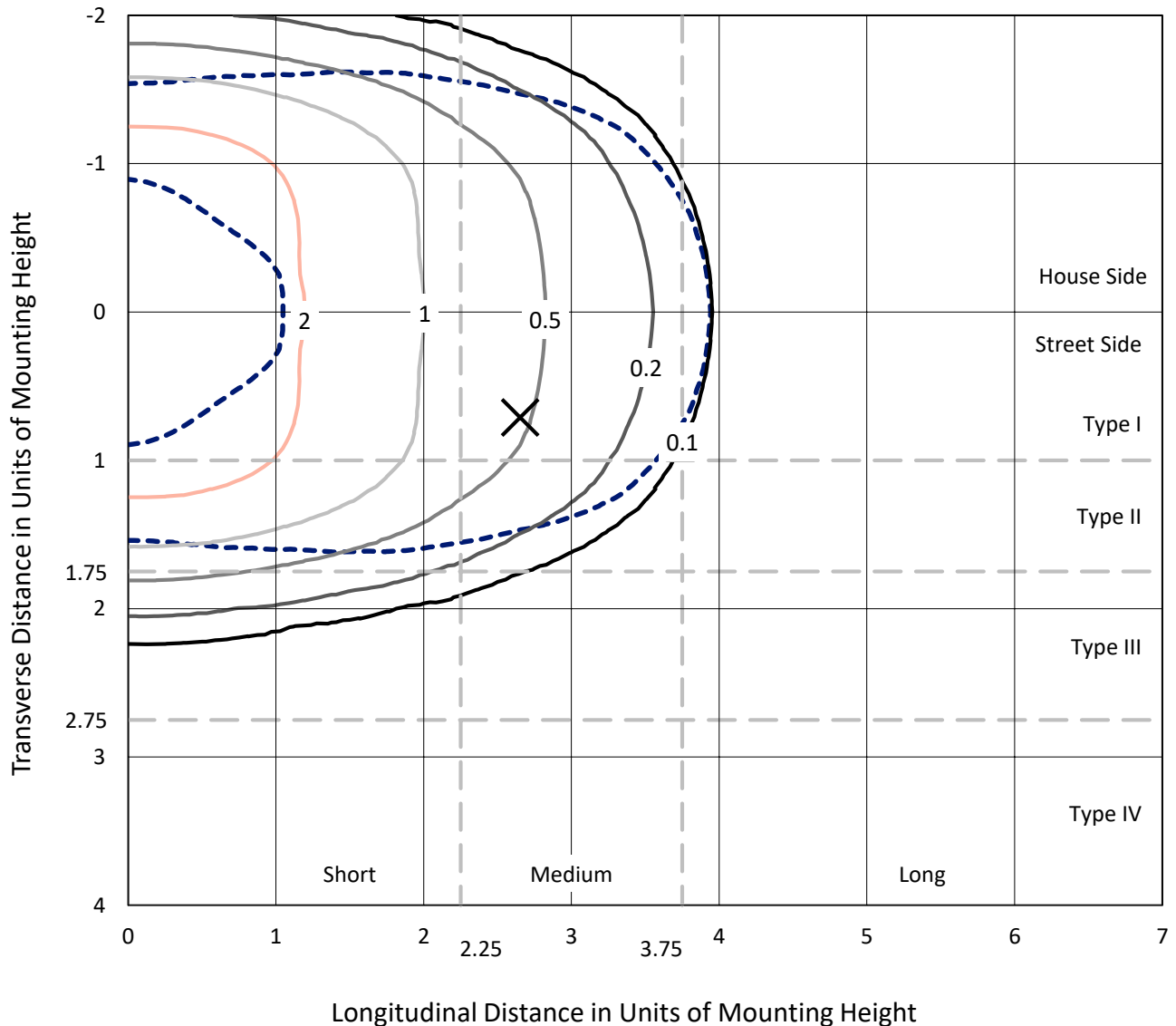


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

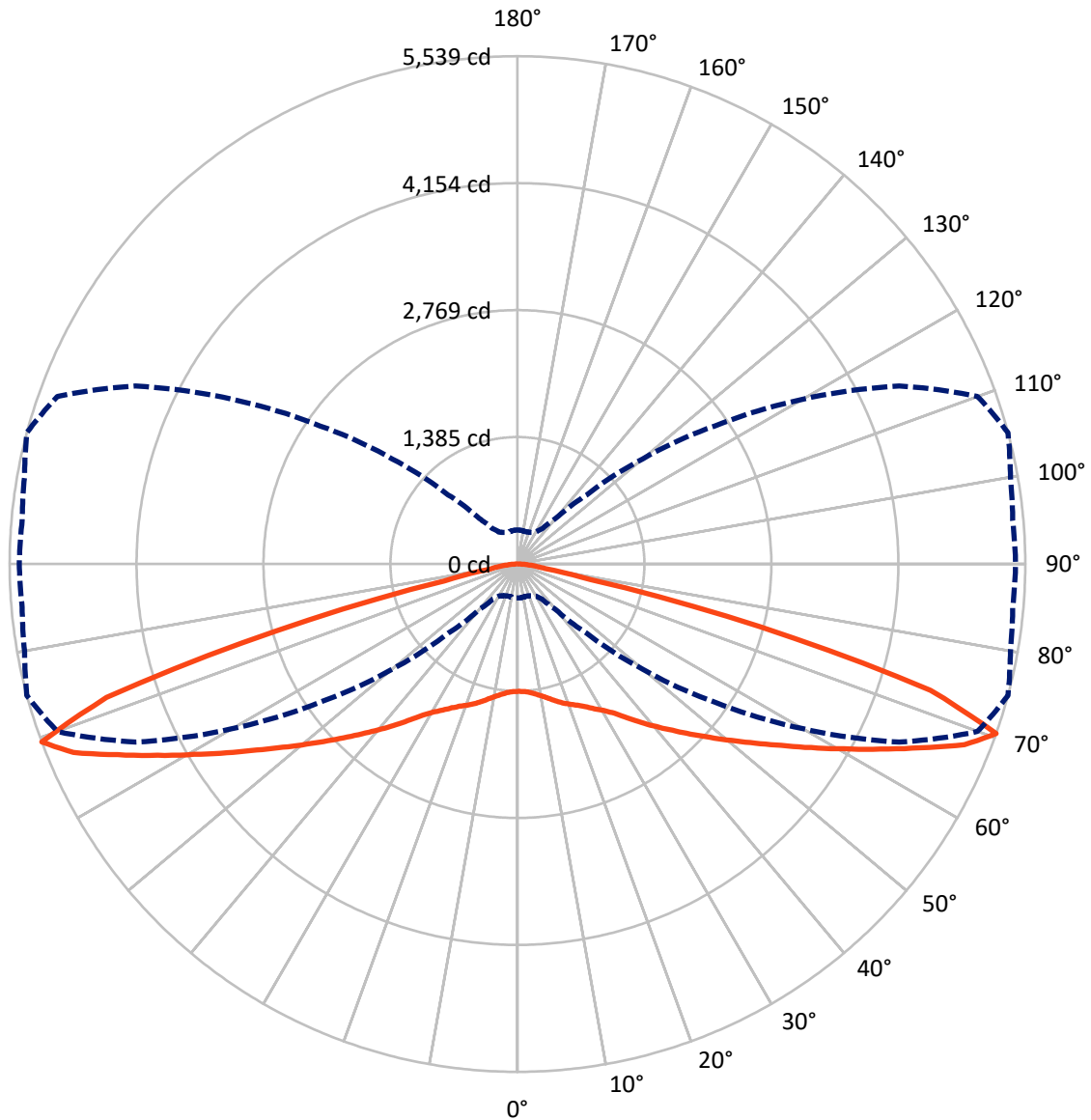


Based on 20 foot mounting height. Maximum calculated value = 3.5 fc  
 Type II - Medium - Full Cutoff

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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	6259.9	0.0	6259.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6259.9	0.0	6259.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12519.9	0.0	12519.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.2	1.1
10°-20°	413.8	3.3
20°-30°	778.9	6.2
30°-40°	1379.3	11.0
40°-50°	2306.7	18.4
50°-60°	3214.3	25.7
60°-70°	2980.8	23.8
70°-80°	1187.9	9.5
80°-90°	124.9	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°	12519.9	100.0
0°-180°	12519.9	100.0



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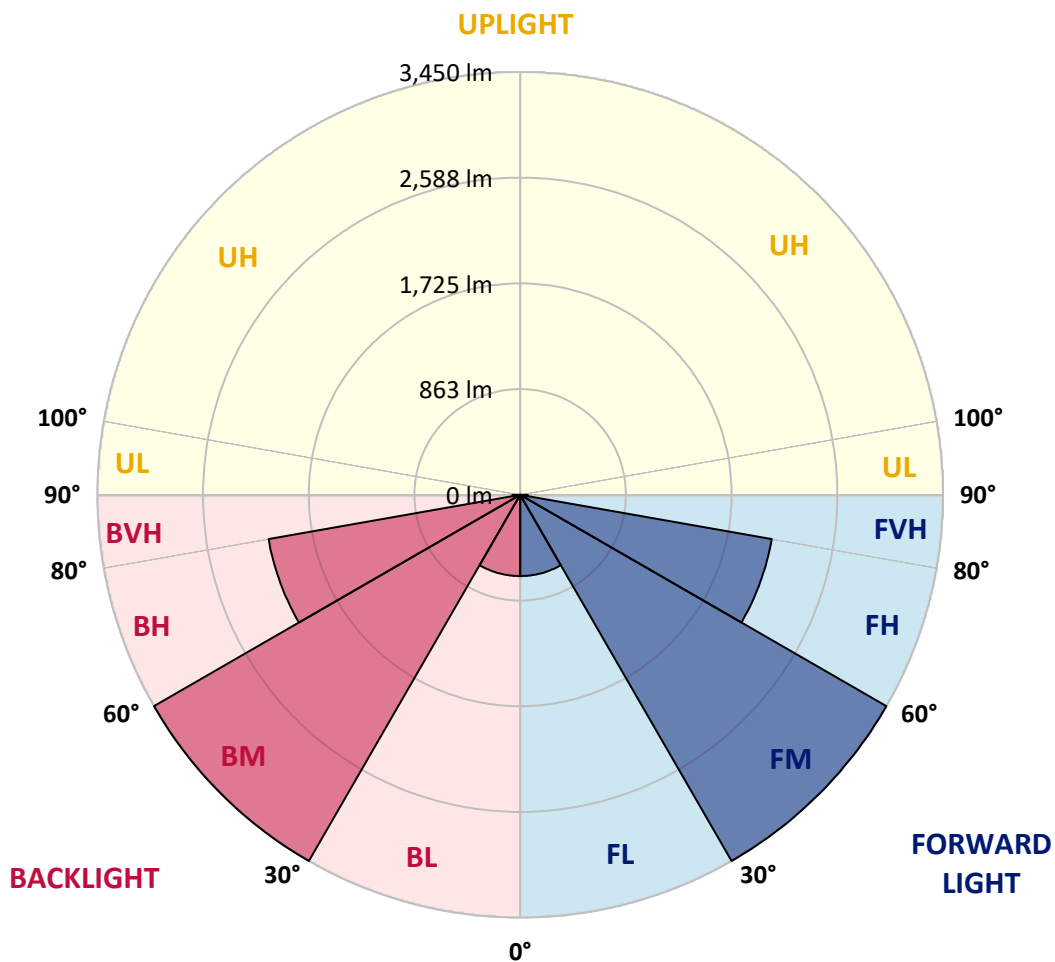
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	663.0	5.3			
FM	(30°-60°)	3450.2	27.6			
FH	(60°-80°)	2084.4	16.6			G2/5000
FVH	(80°-90°)	62.4	0.5			G1/100
BL	(0°-30°)	663.0	5.3	B2/1000		
BM	(30°-60°)	3450.2	27.6	B3/5000		
BH	(60°-80°)	2084.4	16.6	B3/2500		G3/2500
BVH	(80°-90°)	62.4	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°	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8
2.5°	1386.4	1385.2	1386.4	1385.8	1387.0	1387.0	1388.1	1390.5	1390.5	1392.3	1391.7
5°	1372.8	1372.2	1373.9	1375.8	1377.5	1381.1	1384.6	1389.9	1394.1	1397.0	1400.0
7.5°	1346.1	1346.1	1348.6	1352.6	1356.8	1364.5	1372.8	1383.4	1394.1	1403.0	1410.6
10°	1324.2	1325.4	1328.4	1335.5	1342.6	1354.4	1365.6	1381.1	1395.8	1410.6	1422.5
12.5°	1311.2	1313.1	1318.4	1329.0	1340.8	1356.8	1373.9	1393.5	1410.0	1427.8	1439.6
15°	1315.4	1316.5	1324.2	1337.3	1352.6	1372.8	1395.8	1418.9	1438.5	1457.4	1473.4
17.5°	1338.4	1340.3	1349.1	1363.9	1379.9	1403.6	1428.3	1454.4	1478.7	1500.0	1519.5
20°	1379.9	1381.6	1392.8	1408.9	1427.8	1452.1	1476.9	1504.1	1531.4	1553.9	1575.8
22.5°	1438.5	1441.4	1452.1	1468.0	1489.3	1515.4	1545.0	1573.9	1600.0	1620.7	1640.2
25°	1515.4	1521.8	1532.0	1549.7	1572.2	1595.8	1627.8	1657.4	1682.2	1701.8	1716.0
27.5°	1624.2	1633.1	1640.8	1658.0	1679.9	1702.4	1734.3	1760.3	1784.0	1803.0	1813.6
30°	1768.6	1777.5	1785.2	1801.7	1821.9	1843.2	1873.3	1896.4	1911.2	1926.0	1925.4
32.5°	1943.8	1953.2	1956.2	1974.0	1994.7	2017.8	2045.0	2058.0	2069.8	2071.6	2060.9
35°	2139.6	2144.4	2156.2	2179.9	2203.5	2222.5	2248.5	2255.0	2255.0	2246.1	2222.5
37.5°	2354.4	2357.4	2374.0	2400.6	2424.8	2444.3	2462.1	2475.1	2468.6	2449.7	2410.1
40°	2589.9	2595.2	2619.0	2642.6	2669.8	2688.1	2707.0	2709.5	2702.9	2675.1	2621.3
42.5°	2814.8	2819.5	2843.2	2880.4	2915.9	2941.4	2959.2	2962.7	2942.0	2916.5	2849.6
45°	3008.3	3020.7	3051.5	3095.2	3146.7	3182.8	3207.1	3217.2	3198.8	3165.6	3088.2
47.5°	3161.5	3173.9	3217.7	3269.8	3333.7	3392.3	3432.5	3453.8	3449.1	3424.2	3339.6
50°	3274.0	3285.8	3333.1	3397.0	3471.6	3544.3	3613.0	3663.9	3681.6	3670.3	3592.9
52.5°	3286.9	3306.5	3362.1	3447.9	3544.9	3644.4	3742.0	3828.4	3886.9	3895.8	3838.4
55°	3105.3	3124.8	3201.7	3329.0	3473.3	3635.5	3791.7	3937.2	4052.6	4111.9	4081.7
57.5°	2676.9	2711.8	2792.9	2942.0	3154.4	3397.0	3646.1	3904.7	4139.6	4296.4	4326.6
60°	2051.4	2092.9	2174.6	2333.1	2569.8	2859.1	3191.7	3574.0	3988.7	4341.4	4552.0
62.5°	1315.9	1355.0	1440.8	1578.7	1771.5	2085.2	2442.0	2895.9	3453.3	4010.1	4511.8
65°	676.4	697.7	742.6	826.0	976.3	1210.7	1530.7	1983.4	2620.7	3307.7	4033.1
67.5°	428.4	432.5	442.6	454.4	492.9	574.0	723.0	1005.4	1529.6	2246.1	3095.2
70°	370.4	370.4	365.7	363.9	368.7	379.9	402.9	468.6	645.6	1066.2	1785.2
72.5°	339.0	335.5	327.2	320.7	319.6	319.6	324.3	334.3	362.7	434.3	698.8
75°	312.4	302.4	291.1	283.5	280.5	277.5	276.9	278.7	284.6	295.8	333.7
77.5°	279.9	266.9	253.8	246.1	242.6	238.4	234.9	230.8	227.8	231.4	248.0
80°	240.8	226.1	215.9	211.2	207.7	201.7	194.1	187.0	180.4	179.3	189.3
82.5°	194.1	177.0	177.5	179.3	172.8	164.5	156.2	148.5	137.3	131.3	137.3
85°	156.8	147.9	143.8	155.1	145.6	133.1	120.1	106.5	88.8	74.6	81.0
87.5°	61.0	61.0	91.1	140.2	126.0	102.9	88.2	75.2	46.7	36.1	36.7
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°	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8	1388.8
2.5°	1391.1	1392.3	1391.7	1391.1	1391.1	1390.5	1391.1	1391.1
5°	1401.7	1404.7	1404.7	1405.9	1405.9	1406.5	1407.1	1406.5
7.5°	1417.7	1423.0	1426.6	1430.8	1431.3	1431.9	1433.2	1431.9
10°	1433.8	1444.4	1452.1	1459.8	1463.3	1464.5	1465.7	1465.7
12.5°	1453.8	1468.7	1482.3	1495.9	1502.4	1505.9	1505.9	1508.2
15°	1487.0	1501.8	1517.8	1536.1	1547.3	1553.2	1555.0	1555.0
17.5°	1533.7	1546.7	1560.3	1578.1	1592.3	1600.0	1601.7	1601.1
20°	1588.1	1600.6	1608.3	1619.5	1631.9	1640.8	1643.2	1643.2
22.5°	1650.3	1657.4	1658.6	1662.1	1672.2	1684.0	1689.3	1690.5
25°	1719.0	1720.7	1716.0	1716.0	1722.4	1733.7	1739.0	1739.6
27.5°	1807.7	1798.8	1787.0	1782.8	1787.0	1800.0	1806.5	1808.9
30°	1918.3	1897.1	1869.9	1855.0	1852.7	1869.9	1881.6	1883.5
32.5°	2045.0	2014.2	1978.1	1947.9	1940.2	1950.9	1965.1	1964.5
35°	2195.3	2158.5	2114.7	2076.3	2058.6	2069.2	2089.4	2091.7
37.5°	2368.6	2320.7	2270.4	2221.8	2194.0	2197.0	2218.4	2225.4
40°	2562.1	2500.0	2436.7	2371.6	2331.9	2324.2	2350.2	2354.4
42.5°	2769.2	2689.3	2609.4	2528.9	2478.1	2466.2	2496.4	2494.7
45°	2989.9	2888.1	2794.7	2705.9	2645.6	2627.8	2652.6	2652.6
47.5°	3227.2	3101.8	2990.5	2889.9	2824.3	2798.8	2822.4	2824.3
50°	3478.6	3345.6	3214.7	3102.9	3024.3	2991.7	3022.5	3027.2
52.5°	3729.0	3599.4	3467.4	3339.6	3244.4	3204.7	3240.2	3255.6
55°	3982.9	3855.6	3729.6	3604.7	3491.7	3445.0	3482.8	3502.4
57.5°	4250.9	4133.1	4013.0	3886.9	3778.1	3705.3	3745.5	3771.6
60°	4565.0	4464.5	4339.7	4200.5	4090.5	4016.5	4039.6	4062.6
62.5°	4813.6	4852.7	4746.7	4585.8	4444.3	4349.7	4372.2	4396.4
65°	4693.5	5094.1	5188.1	5025.5	4829.6	4682.3	4672.7	4685.2
67.5°	3923.0	4701.2	5268.6	5423.6	5259.7	5055.0	5017.2	5035.5
70°	2624.3	3593.4	4594.7	5340.2	5538.5	5459.2	5421.8	5433.1
72.5°	1260.4	2092.9	3117.1	4108.3	4711.8	4988.7	5077.5	5120.7
75°	460.9	830.7	1502.4	2263.9	2733.1	3163.9	3445.0	3559.8
77.5°	278.1	335.5	479.9	722.5	818.4	916.0	878.1	897.0
80°	205.9	232.5	263.3	295.8	306.5	306.5	294.7	285.2
82.5°	144.3	161.5	176.4	194.1	198.9	190.0	156.2	124.3
85°	92.9	100.6	107.1	118.4	115.4	110.1	74.0	65.7
87.5°	42.6	48.5	50.8	56.3	53.8	51.5	36.7	30.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)