

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: P191364

Luminaire Tested: **GLEON-AF-06-LED-E1-T2-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191364  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-06-LED-E1-T2-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 28874.8 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

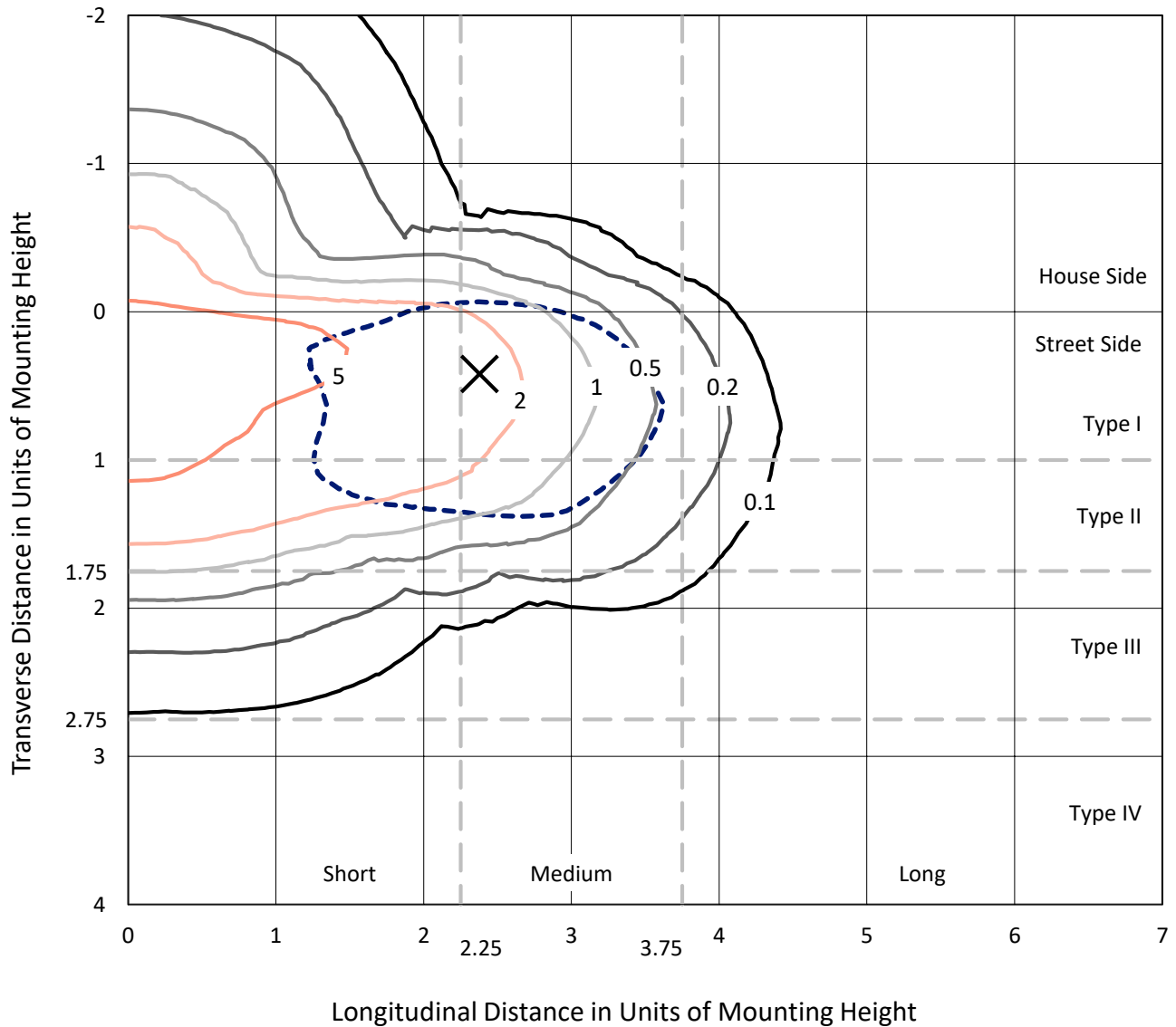
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

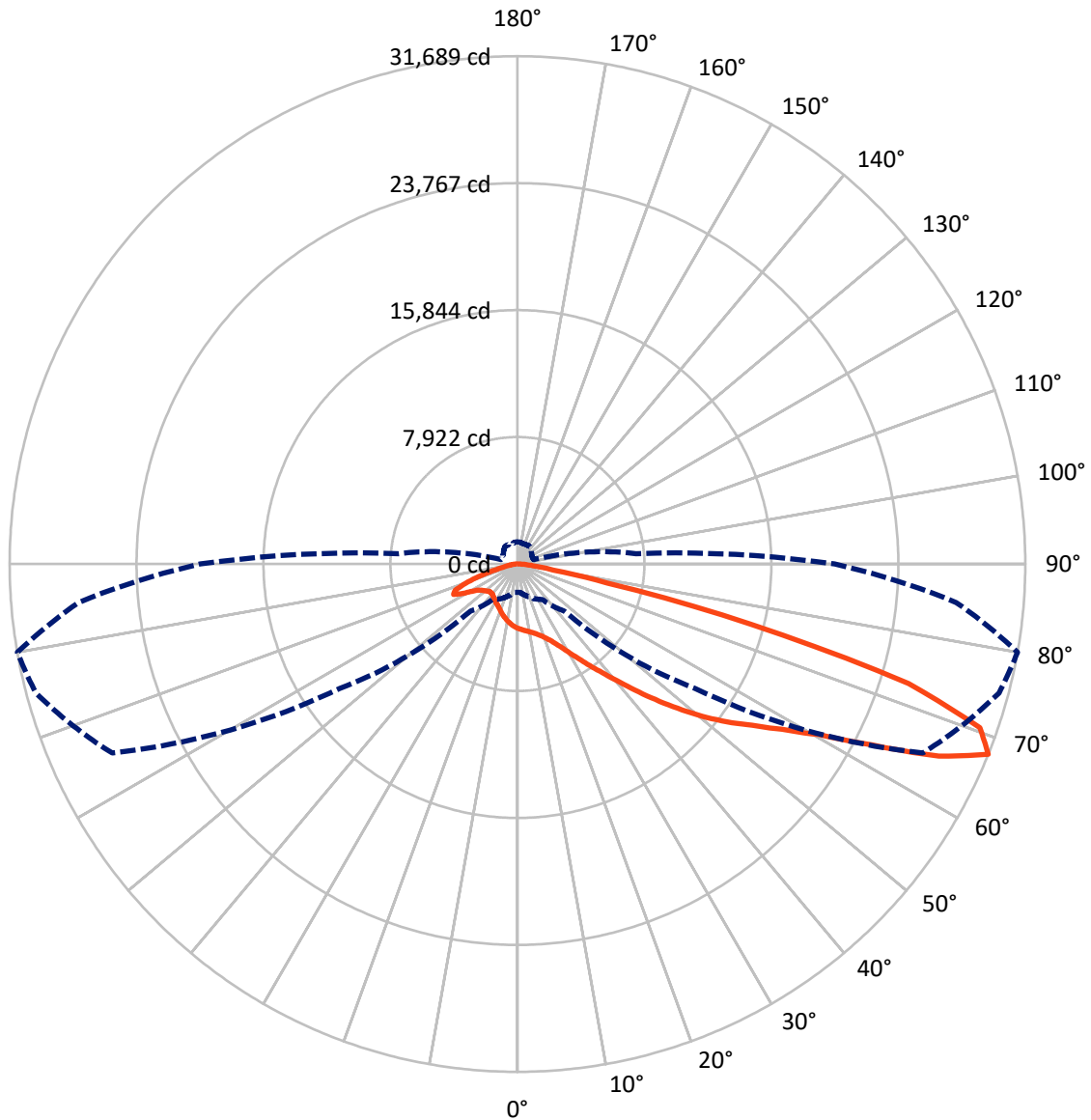
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type II - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5317.6	0.0	5317.6
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	23557.2	0.0	23557.2
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	28874.8	0.0	28874.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	370.0	1.3
10°-20°	1066.0	3.7
20°-30°	1764.5	6.1
30°-40°	2886.2	10.0
40°-50°	4660.1	16.1
50°-60°	6727.8	23.3
60°-70°	7424.5	25.7
70°-80°	3422.2	11.9
80°-90°	553.5	1.9
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°	28874.8	100.0
0°-180°	28874.8	100.0



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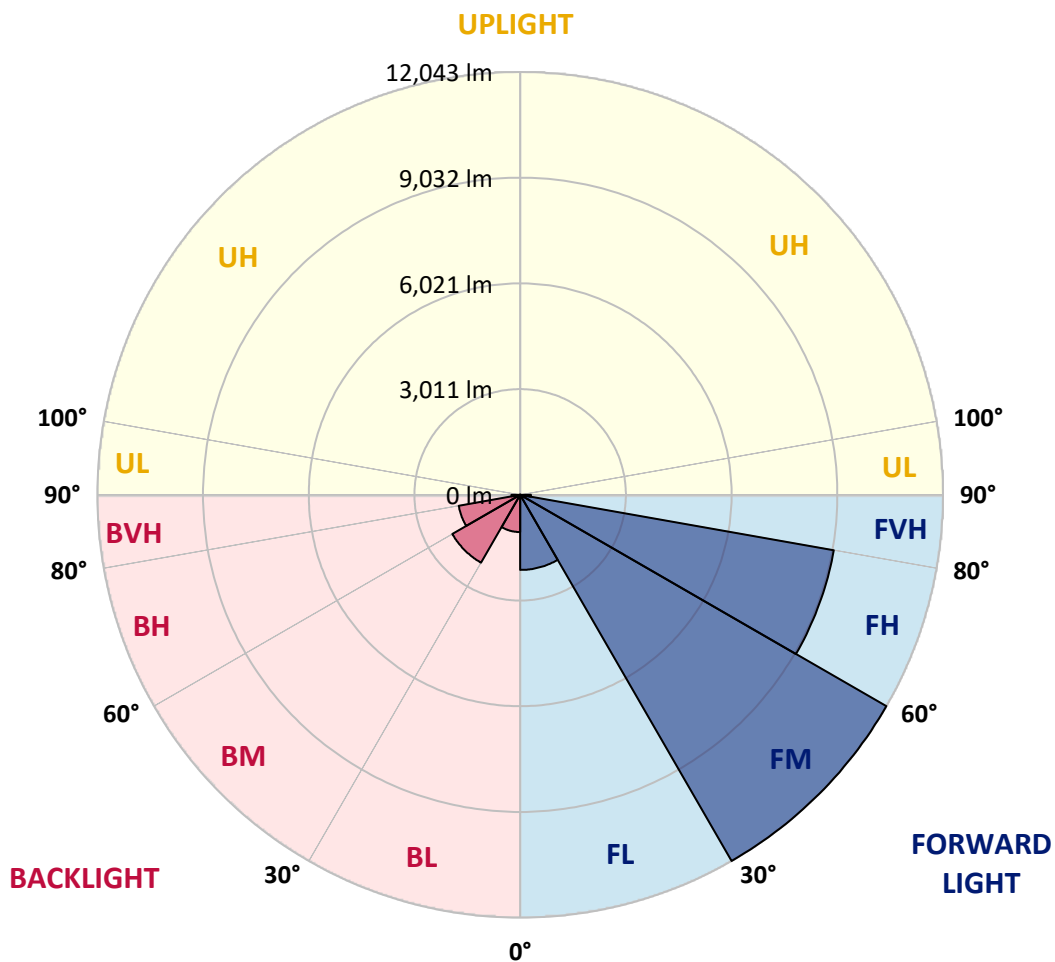
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2139.6	7.4			
FM (30°-60°)	12043.0	41.7			
FH (60°-80°)	9070.3	31.4			G4/12000
FVH (80°-90°)	304.3	1.1			G3/500
BL (0°-30°)	1060.9	3.7	B3/2500		
BM (30°-60°)	2231.1	7.7	B2/2500		
BH (60°-80°)	1776.4	6.2	B3/2500		G3/2500
BVH (80°-90°)	249.2	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6
2.5°	4388.3	4362.7	4367.0	4359.8	4338.5	4301.5	4261.7	4189.3	4113.9	4074.1	4042.8
5°	4755.0	4747.9	4738.0	4715.2	4661.2	4584.5	4489.2	4361.2	4223.4	4150.8	4081.2
7.5°	5029.3	5025.1	5012.4	4998.1	4945.5	4853.1	4709.6	4527.6	4327.2	4227.7	4119.6
10°	5052.1	5059.2	5069.1	5107.6	5114.7	5064.9	4918.4	4698.1	4435.2	4307.2	4169.3
12.5°	4858.8	4874.5	4912.8	5010.9	5114.7	5175.8	5100.4	4877.2	4561.6	4406.8	4231.8
15°	4602.9	4611.5	4658.3	4793.4	4979.6	5168.7	5239.8	5074.9	4725.1	4534.6	4325.8
17.5°	4493.4	4497.7	4530.4	4620.0	4793.4	5063.5	5317.9	5289.5	4925.6	4693.9	4440.8
20°	4438.0	4448.0	4494.8	4583.0	4692.5	4928.5	5329.3	5521.2	5164.4	4892.9	4585.9
22.5°	4595.8	4591.5	4608.6	4652.7	4745.1	4887.2	5320.8	5760.0	5468.6	5148.8	4774.9
25°	4964.0	4979.6	4949.8	4900.0	4929.9	5029.3	5366.3	6018.7	5849.5	5477.2	5022.3
27.5°	5488.5	5472.9	5428.8	5312.3	5251.1	5293.8	5517.0	6297.4	6323.0	5909.3	5349.2
30°	6011.7	5998.9	5956.2	5814.0	5688.9	5653.4	5809.7	6617.3	6887.3	6428.1	5750.1
32.5°	6554.7	6540.4	6500.6	6358.5	6207.8	6125.3	6226.3	6986.9	7552.5	7047.9	6222.0
35°	7224.2	7197.2	7113.3	6915.8	6767.9	6703.9	6750.9	7451.7	8320.2	7781.5	6795.0
37.5°	7853.9	7895.1	7809.9	7536.9	7345.0	7322.3	7374.9	8018.8	9147.5	8601.7	7453.1
40°	8486.5	8493.7	8416.8	8193.7	7996.1	7959.2	8091.3	8706.8	10124.1	9582.5	8253.4
42.5°	9140.5	9154.7	9025.3	8819.2	8674.2	8681.3	8832.0	9512.8	11244.3	10738.2	9174.5
45°	9915.2	9936.5	9794.3	9524.3	9392.0	9657.9	9595.3	10416.9	12472.5	12051.7	10232.2
47.5°	10725.4	10758.2	10650.0	10397.1	10232.2	10597.5	10358.7	11419.1	13794.5	13460.5	11393.5
50°	11167.6	11214.4	11319.7	11301.2	11265.7	11204.5	11210.2	12493.8	15157.8	14927.5	12587.6
52.5°	10930.1	10928.7	11312.5	11778.8	12276.3	12313.3	12247.9	13626.7	16431.5	16361.8	13712.0
55°	9844.1	9918.0	10499.4	11402.1	12761.1	13609.7	13803.1	14924.6	17682.4	17763.4	14853.6
57.5°	8035.9	8097.1	8881.7	10139.8	12107.1	14380.2	16014.9	16811.0	19081.2	19459.3	16373.1
60°	5450.2	5524.0	6355.7	7866.7	10347.4	13950.9	18120.2	20177.2	20755.8	21615.8	18505.5
62.5°	3202.7	3269.6	3947.6	4962.5	7285.4	11956.5	19044.2	24966.3	23415.4	24869.7	21758.0
65°	2204.8	2250.3	2580.1	3089.0	4186.4	8053.0	17898.5	28272.8	27508.0	28901.1	25529.3
67.5°	1774.1	1768.4	2029.9	2376.8	2695.2	4152.3	13534.4	27898.9	31107.3	31688.8	27486.7
70°	1461.3	1455.7	1633.3	1920.5	2153.6	2338.5	7372.0	23543.3	30373.8	30609.8	25684.1
72.5°	1222.5	1228.2	1341.9	1555.2	1766.9	1761.3	3239.7	16562.2	23894.5	25526.4	20474.3
75°	1032.1	1034.9	1110.2	1260.9	1434.3	1418.7	1757.0	8972.7	13889.7	15025.5	11349.4
77.5°	878.5	881.4	929.7	1013.5	1137.2	1131.5	1282.3	3876.5	5794.2	5723.1	3882.2
80°	783.3	783.3	806.0	821.6	889.9	864.3	951.0	1862.2	2449.3	2261.6	1549.5
82.5°	614.1	616.9	756.3	750.5	700.8	668.1	668.1	1097.4	1297.8	1199.8	906.9
85°	345.5	344.0	487.5	588.5	616.9	470.6	466.3	614.1	706.4	622.7	439.3
87.5°	147.8	150.7	226.1	261.6	349.7	292.9	288.6	317.0	359.7	311.3	203.3
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6	4011.6
2.5°	4012.9	3976.0	3895.0	3794.0	3703.1	3643.3	3589.3	3511.2	3515.5	3461.5	3421.7
5°	4010.2	3933.3	3745.7	3522.5	3307.9	3152.9	3036.4	2931.2	2905.6	2855.9	2826.0
7.5°	4012.9	3887.9	3572.3	3215.5	2949.7	2753.5	2653.9	2598.6	2585.7	2568.7	2570.2
10°	4023.0	3846.7	3381.8	2928.3	2649.7	2520.3	2496.2	2513.3	2533.1	2538.9	2540.3
12.5°	4045.7	3809.7	3172.9	2672.5	2462.0	2422.2	2463.5	2521.8	2560.1	2578.7	2577.2
15°	4096.8	3781.2	2972.4	2472.1	2358.3	2379.6	2456.4	2538.9	2594.3	2619.9	2621.3
17.5°	4152.3	3740.0	2766.3	2318.5	2281.6	2335.6	2430.8	2527.5	2595.7	2624.2	2629.8
20°	4224.8	3688.9	2550.2	2203.3	2209.1	2270.1	2359.7	2456.4	2531.7	2555.9	2567.3
22.5°	4320.0	3633.4	2361.2	2109.5	2126.6	2173.6	2243.1	2327.0	2392.5	2403.8	2413.8
25°	4448.0	3573.7	2210.5	2024.2	2031.4	2058.4	2105.3	2155.1	2200.6	2187.7	2197.7
27.5°	4620.0	3522.5	2098.2	1946.1	1933.3	1939.0	1963.1	1978.8	2002.9	1967.4	1971.6
30°	4821.8	3467.1	2011.4	1877.8	1842.3	1832.3	1838.0	1846.5	1865.0	1816.8	1809.6
32.5°	5056.3	3400.3	1930.4	1818.1	1768.4	1748.5	1751.3	1774.1	1845.1	1815.3	1799.7
35°	5329.3	3325.0	1845.1	1752.7	1718.7	1690.2	1687.4	1758.5	1970.2	1951.8	1937.6
37.5°	5649.1	3249.6	1759.9	1678.9	1681.6	1650.4	1640.4	1721.4	1994.4	1921.9	1912.0
40°	6055.7	3209.8	1687.4	1600.6	1636.2	1631.9	1612.0	1653.2	1835.2	1703.0	1685.9
42.5°	6559.0	3215.5	1633.3	1516.7	1582.2	1627.6	1596.4	1597.8	1663.2	1563.7	1548.0
45°	7180.1	3282.3	1595.0	1449.9	1521.0	1623.4	1590.7	1568.0	1573.6	1521.0	1512.5
47.5°	7905.2	3420.2	1568.0	1394.5	1462.7	1607.8	1589.3	1559.4	1546.6	1518.2	1511.1
50°	8711.1	3620.6	1548.0	1341.9	1410.1	1582.2	1590.7	1550.9	1536.7	1525.3	1521.0
52.5°	9502.9	3849.5	1518.2	1296.4	1368.9	1550.9	1595.0	1542.4	1526.8	1518.2	1514.0
55°	10385.7	4135.2	1472.7	1258.0	1334.8	1511.1	1595.0	1529.5	1512.5	1514.0	1512.5
57.5°	11578.4	4597.2	1418.7	1225.4	1293.6	1462.7	1568.0	1515.4	1494.0	1495.5	1496.9
60°	13442.0	5411.7	1353.3	1192.7	1242.4	1405.8	1530.9	1484.1	1462.7	1468.4	1469.9
62.5°	16182.7	6607.2	1268.0	1144.4	1188.4	1344.8	1479.8	1444.3	1422.9	1437.1	1437.1
65°	19031.4	7662.0	1162.8	1083.2	1131.5	1278.0	1415.9	1394.5	1373.2	1405.8	1404.5
67.5°	19797.7	7426.1	1057.6	1016.4	1074.7	1204.0	1339.0	1327.7	1316.3	1373.2	1370.3
70°	17587.2	5961.9	961.0	948.2	1012.1	1124.4	1256.6	1256.6	1249.5	1292.2	1282.3
72.5°	13399.3	4227.7	868.6	875.6	941.0	1037.7	1167.1	1177.0	1165.7	1186.9	1178.4
75°	7173.0	2419.5	776.1	796.1	852.9	949.6	1067.6	1077.5	1070.4	1069.0	1073.3
77.5°	2383.9	1182.7	679.4	710.7	760.6	858.6	963.8	979.5	962.4	959.5	958.1
80°	1061.9	743.5	572.9	614.1	658.2	754.8	854.4	867.2	848.6	874.2	841.6
82.5°	682.3	489.0	459.2	504.6	547.3	651.1	744.9	747.7	730.7	848.6	723.5
85°	331.2	302.8	345.5	386.7	423.6	511.8	616.9	618.4	575.7	524.6	506.1
87.5°	164.9	176.3	230.3	267.3	285.7	351.1	449.2	440.7	422.2	383.8	353.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)