

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: P298945

Luminaire Tested: **GLNA-AF-06-LED-E1-T2-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P298945  
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: GLNA-AF-06-LED-E1-T2-7027-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

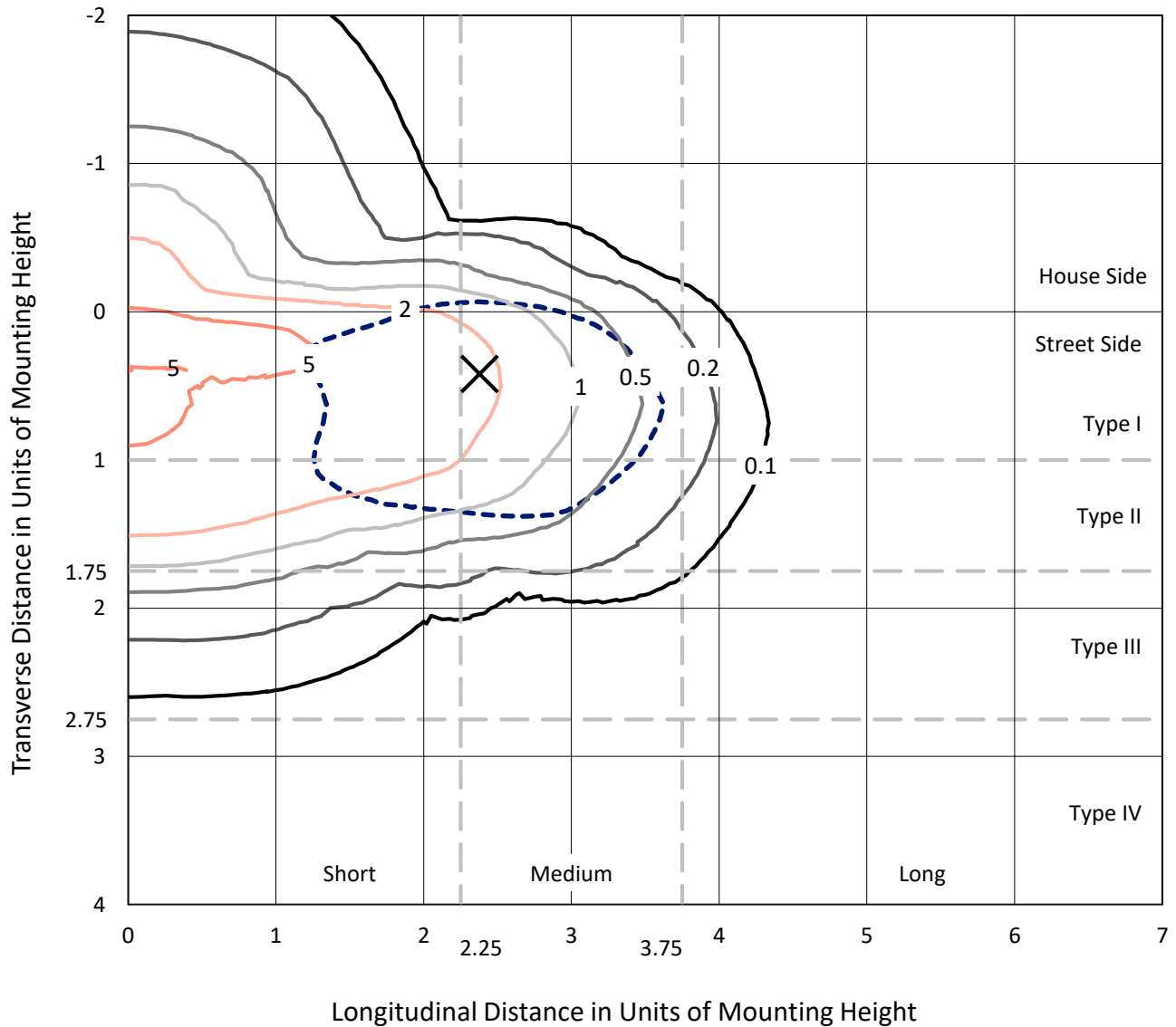
Lumens per Lamp: N/A  
Luminaire Lumens: 24438.6 lumens  
Efficiency: N/A  
Efficacy: 98.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 249  
Input Voltage (V): NR  
Input Current (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

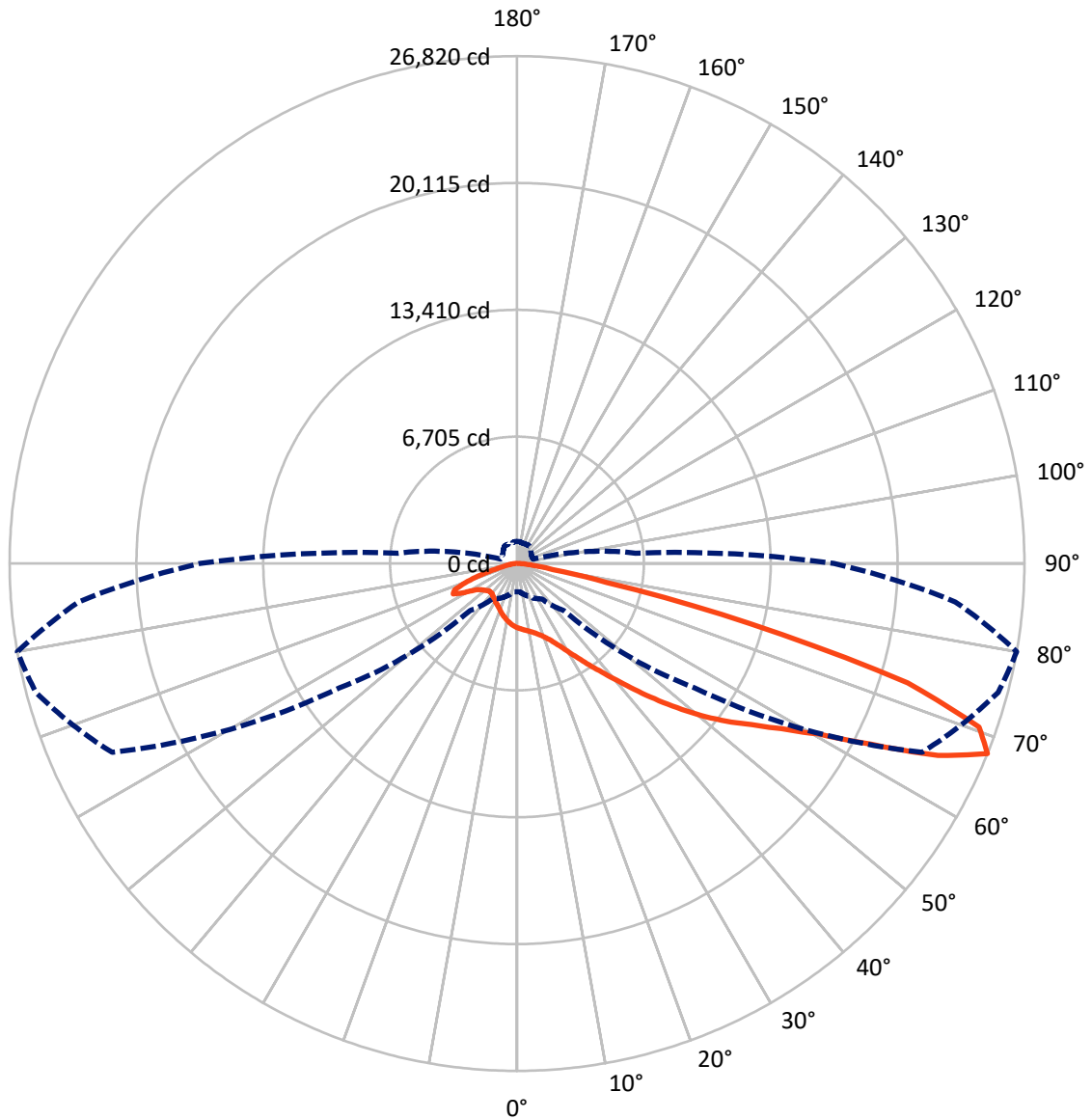


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc  
 Type II - Medium - Full Cutoff

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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	4500.7	0.0	4500.7
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	19937.9	0.0	19937.9
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	24438.6	0.0	24438.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	313.2	1.3
10°-20°	902.2	3.7
20°-30°	1493.4	6.1
30°-40°	2442.8	10.0
40°-50°	3944.1	16.1
50°-60°	5694.1	23.3
60°-70°	6283.8	25.7
70°-80°	2896.5	11.9
80°-90°	468.5	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°	24438.6	100.0
0°-180°	24438.6	100.0



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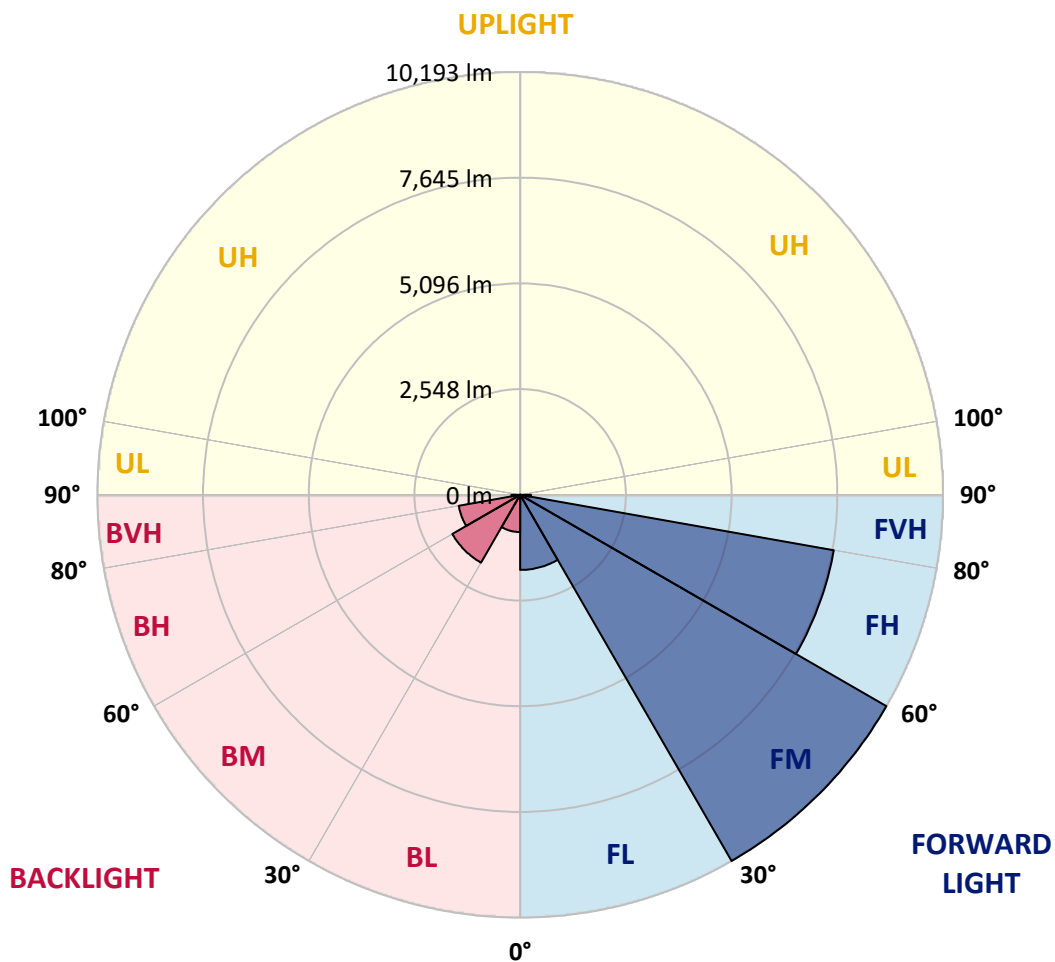
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1810.9	7.4			
FM (30°-60°)	10192.7	41.7			
FH (60°-80°)	7676.8	31.4			G4/12000
FVH (80°-90°)	257.6	1.1			G3/500
BL (0°-30°)	897.9	3.7	B2/1000		
BM (30°-60°)	1888.3	7.7	B2/2500		
BH (60°-80°)	1503.5	6.2	B3/2500		G3/2500
BVH (80°-90°)	210.9	0.9			G2/225
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°	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2
2.5°	3714.1	3692.4	3696.0	3690.0	3672.0	3640.7	3607.0	3545.6	3481.9	3448.2	3421.7
5°	4024.5	4018.5	4010.0	3990.8	3945.1	3880.1	3799.5	3691.2	3574.5	3513.1	3454.2
7.5°	4256.7	4253.1	4242.2	4230.2	4185.7	4107.5	3986.0	3832.0	3662.3	3578.1	3486.7
10°	4275.9	4281.9	4290.4	4322.8	4328.9	4286.8	4162.8	3976.3	3753.8	3645.5	3528.8
12.5°	4112.3	4125.5	4158.0	4241.0	4328.9	4380.6	4316.8	4127.9	3860.8	3729.7	3581.7
15°	3895.7	3903.0	3942.7	4057.0	4214.6	4374.6	4434.7	4295.2	3999.2	3838.0	3661.1
17.5°	3803.1	3806.7	3834.4	3910.2	4057.0	4285.6	4500.9	4476.8	4168.8	3972.7	3758.6
20°	3756.2	3764.6	3804.3	3878.9	3971.5	4171.3	4510.5	4673.0	4371.0	4141.2	3881.3
22.5°	3889.7	3886.1	3900.5	3937.8	4016.0	4136.4	4503.3	4875.1	4628.4	4357.7	4041.3
25°	4201.3	4214.6	4189.3	4147.2	4172.5	4256.7	4541.8	5094.1	4950.9	4635.7	4250.7
27.5°	4645.3	4632.1	4594.8	4496.1	4444.4	4480.5	4669.3	5329.9	5351.5	5001.4	4527.4
30°	5088.0	5077.2	5041.1	4920.8	4814.9	4784.8	4917.2	5600.6	5829.2	5440.6	4866.7
32.5°	5547.6	5535.6	5501.9	5381.6	5254.1	5184.3	5269.7	5913.4	6392.2	5965.1	5266.1
35°	6114.3	6091.4	6020.5	5853.2	5728.1	5674.0	5713.7	6306.8	7041.9	6585.9	5751.0
37.5°	6647.3	6682.2	6610.0	6379.0	6216.6	6197.3	6241.8	6786.9	7742.1	7280.1	6308.0
40°	7182.7	7188.7	7123.7	6934.8	6767.6	6736.3	6848.2	7369.2	8568.7	8110.3	6985.4
42.5°	7736.1	7748.2	7638.7	7464.2	7341.5	7347.5	7475.0	8051.3	9516.8	9088.4	7765.0
45°	8391.8	8409.9	8289.6	8061.0	7949.1	8174.1	8121.1	8816.5	10556.3	10200.1	8660.1
47.5°	9077.6	9105.3	9013.9	8799.7	8660.1	8969.3	8767.2	9664.7	11675.2	11392.4	9643.1
50°	9451.8	9491.5	9580.5	9564.9	9534.8	9483.1	9487.9	10574.3	12829.0	12634.1	10653.7
52.5°	9250.9	9249.7	9574.5	9969.1	10390.2	10421.5	10366.2	11533.2	13907.0	13848.0	11605.4
55°	8331.7	8394.2	8886.3	9650.3	10800.5	11518.8	11682.4	12631.7	14965.7	15034.3	12571.5
57.5°	6801.3	6853.0	7517.2	8581.9	10247.1	12170.9	13554.5	14228.2	16149.6	16469.7	13857.7
60°	4612.8	4675.4	5379.2	6658.1	8757.6	11807.5	15336.3	17077.2	17566.9	18294.8	15662.4
62.5°	2710.7	2767.2	3341.1	4200.1	6166.0	10119.5	16118.3	21130.6	19818.0	21048.8	18415.1
65°	1866.1	1904.6	2183.7	2614.4	3543.2	6815.7	15148.6	23929.1	23281.8	24460.8	21607.0
67.5°	1501.5	1496.7	1718.1	2011.6	2281.1	3514.3	11455.0	23612.6	26328.1	26820.2	23263.7
70°	1236.8	1232.0	1382.4	1625.4	1822.7	1979.1	6239.4	19926.2	25707.3	25907.0	21738.2
72.5°	1034.7	1039.5	1135.8	1316.2	1495.5	1490.7	2741.9	14017.7	20223.4	21604.6	17328.7
75°	873.5	875.9	939.6	1067.2	1214.0	1200.7	1487.1	7594.2	11755.8	12717.1	9605.8
77.5°	743.5	745.9	786.8	857.8	962.5	957.7	1085.2	3280.9	4904.0	4843.8	3285.7
80°	662.9	662.9	682.2	695.4	753.2	731.5	804.9	1576.1	2073.0	1914.2	1311.4
82.5°	519.8	522.2	640.1	635.3	593.1	565.5	565.5	928.8	1098.5	1015.4	767.6
85°	292.4	291.2	412.7	498.1	522.2	398.2	394.6	519.8	598.0	527.0	371.8
87.5°	125.1	127.5	191.3	221.4	296.0	247.8	244.2	268.3	304.4	263.5	172.0
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°	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2	3395.2
2.5°	3396.4	3365.2	3296.6	3211.2	3134.2	3083.6	3037.9	2971.7	2975.3	2929.6	2895.9
5°	3394.0	3329.1	3170.2	2981.4	2799.7	2668.5	2569.9	2480.9	2459.2	2417.1	2391.8
7.5°	3396.4	3290.6	3023.5	2721.5	2496.5	2330.5	2246.2	2199.3	2188.5	2174.1	2175.3
10°	3404.9	3255.7	2862.2	2478.4	2242.6	2133.2	2112.7	2127.1	2144.0	2148.8	2150.0
12.5°	3424.1	3224.4	2685.4	2261.9	2083.8	2050.1	2085.0	2134.4	2166.8	2182.5	2181.3
15°	3467.4	3200.3	2515.7	2092.2	1996.0	2014.0	2079.0	2148.8	2195.7	2217.4	2218.6
17.5°	3514.3	3165.4	2341.3	1962.3	1931.0	1976.7	2057.4	2139.2	2196.9	2221.0	2225.8
20°	3575.7	3122.1	2158.4	1864.9	1869.7	1921.4	1997.2	2079.0	2142.8	2163.2	2172.9
22.5°	3656.3	3075.2	1998.4	1785.4	1799.9	1839.6	1898.5	1969.5	2024.9	2034.5	2042.9
25°	3764.6	3024.7	1870.9	1713.3	1719.3	1742.1	1781.8	1823.9	1862.4	1851.6	1860.0
27.5°	3910.2	2981.4	1775.8	1647.1	1636.3	1641.1	1661.5	1674.8	1695.2	1665.1	1668.7
30°	4081.0	2934.4	1702.4	1589.3	1559.3	1550.8	1555.6	1562.9	1578.5	1537.6	1531.6
32.5°	4279.5	2877.9	1633.9	1538.8	1496.7	1479.9	1482.3	1501.5	1561.7	1536.4	1523.2
35°	4510.5	2814.1	1561.7	1483.5	1454.6	1430.5	1428.1	1488.3	1667.5	1651.9	1639.9
37.5°	4781.2	2750.4	1489.5	1420.9	1423.3	1396.8	1388.4	1457.0	1688.0	1626.6	1618.2
40°	5125.3	2716.7	1428.1	1354.7	1384.8	1381.2	1364.3	1399.2	1553.2	1441.4	1426.9
42.5°	5551.2	2721.5	1382.4	1283.7	1339.1	1377.6	1351.1	1352.3	1407.7	1323.4	1310.2
45°	6077.0	2778.0	1349.9	1227.2	1287.3	1374.0	1346.3	1327.1	1331.9	1287.3	1280.1
47.5°	6690.6	2894.7	1327.1	1180.3	1238.0	1360.7	1345.1	1319.8	1309.0	1284.9	1278.9
50°	7372.8	3064.4	1310.2	1135.8	1193.5	1339.1	1346.3	1312.6	1300.6	1291.0	1287.3
52.5°	8042.9	3258.1	1284.9	1097.3	1158.6	1312.6	1349.9	1305.4	1292.2	1284.9	1281.3
55°	8790.1	3499.9	1246.4	1064.8	1129.7	1278.9	1349.9	1294.6	1280.1	1281.3	1280.1
57.5°	9799.5	3890.9	1200.7	1037.1	1094.8	1238.0	1327.1	1282.5	1264.5	1265.7	1266.9
60°	11376.8	4580.3	1145.4	1009.4	1051.5	1189.9	1295.8	1256.1	1238.0	1242.8	1244.0
62.5°	13696.4	5592.1	1073.2	968.5	1005.8	1138.2	1252.5	1222.4	1204.3	1216.4	1216.4
65°	16107.5	6484.9	984.2	916.8	957.7	1081.6	1198.3	1180.3	1162.2	1189.9	1188.7
67.5°	16756.0	6285.2	895.1	860.2	909.6	1019.1	1133.3	1123.7	1114.1	1162.2	1159.8
70°	14885.1	5045.9	813.3	802.5	856.6	951.7	1063.6	1063.6	1057.6	1093.6	1085.2
72.5°	11340.7	3578.1	735.1	741.1	796.5	878.3	987.8	996.2	986.6	1004.6	997.4
75°	6071.0	2047.7	656.9	673.8	721.9	803.7	903.6	912.0	906.0	904.8	908.4
77.5°	2017.6	1001.0	575.1	601.6	643.7	726.7	815.7	829.0	814.5	812.1	810.9
80°	898.7	629.2	484.9	519.8	557.0	638.9	723.1	733.9	718.3	739.9	712.3
82.5°	577.5	413.9	388.6	427.1	463.2	551.0	630.4	632.8	618.4	718.3	612.4
85°	280.3	256.3	292.4	327.3	358.5	433.1	522.2	523.4	487.3	444.0	428.3
87.5°	139.6	149.2	194.9	226.2	241.8	297.2	380.2	373.0	357.3	324.8	299.6
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)