

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: P192155

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7050-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192155  
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-07-LED-E1-T2-7050-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27222 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B3 - U0 - G4

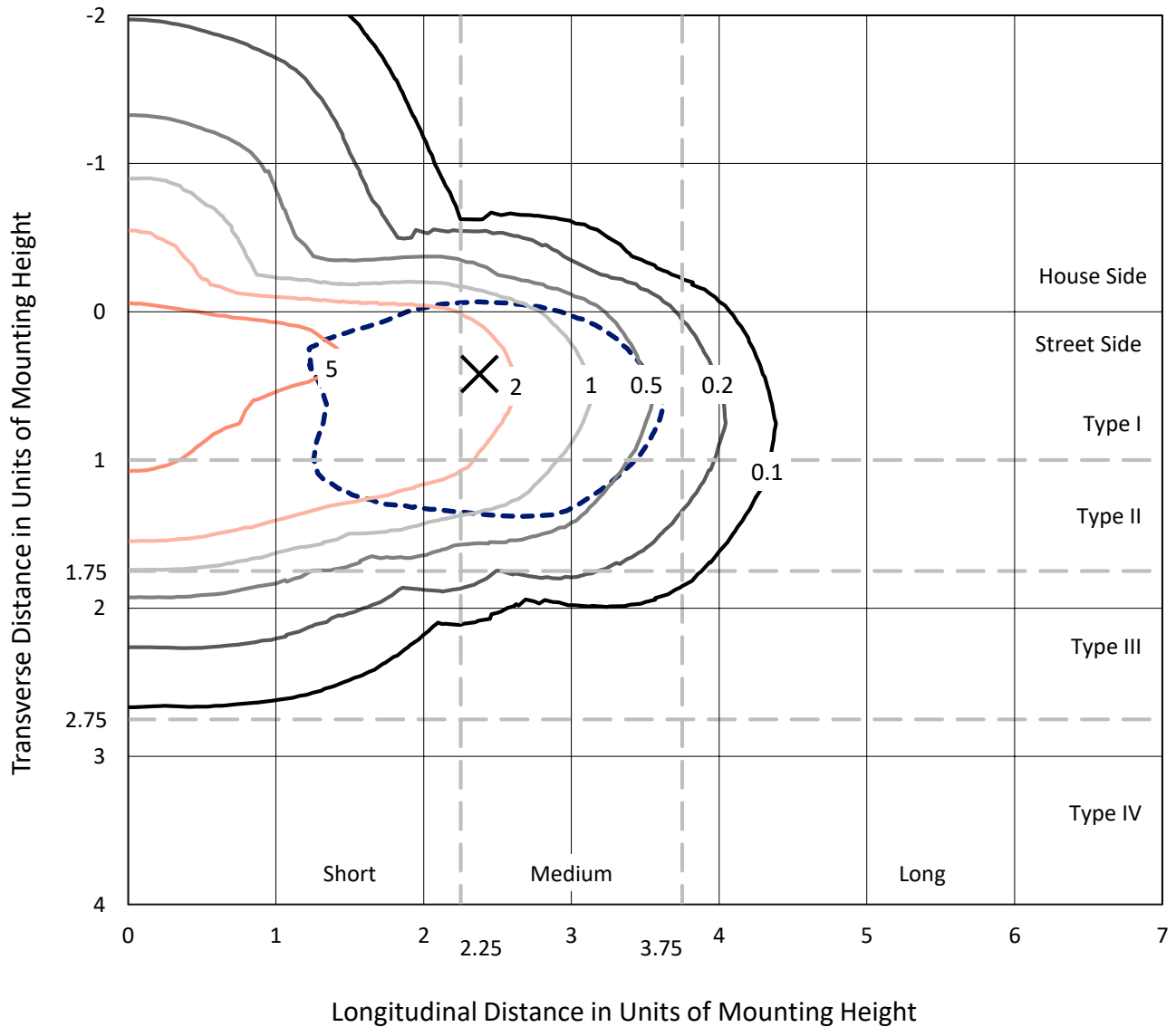
Input Watts (W): 226  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

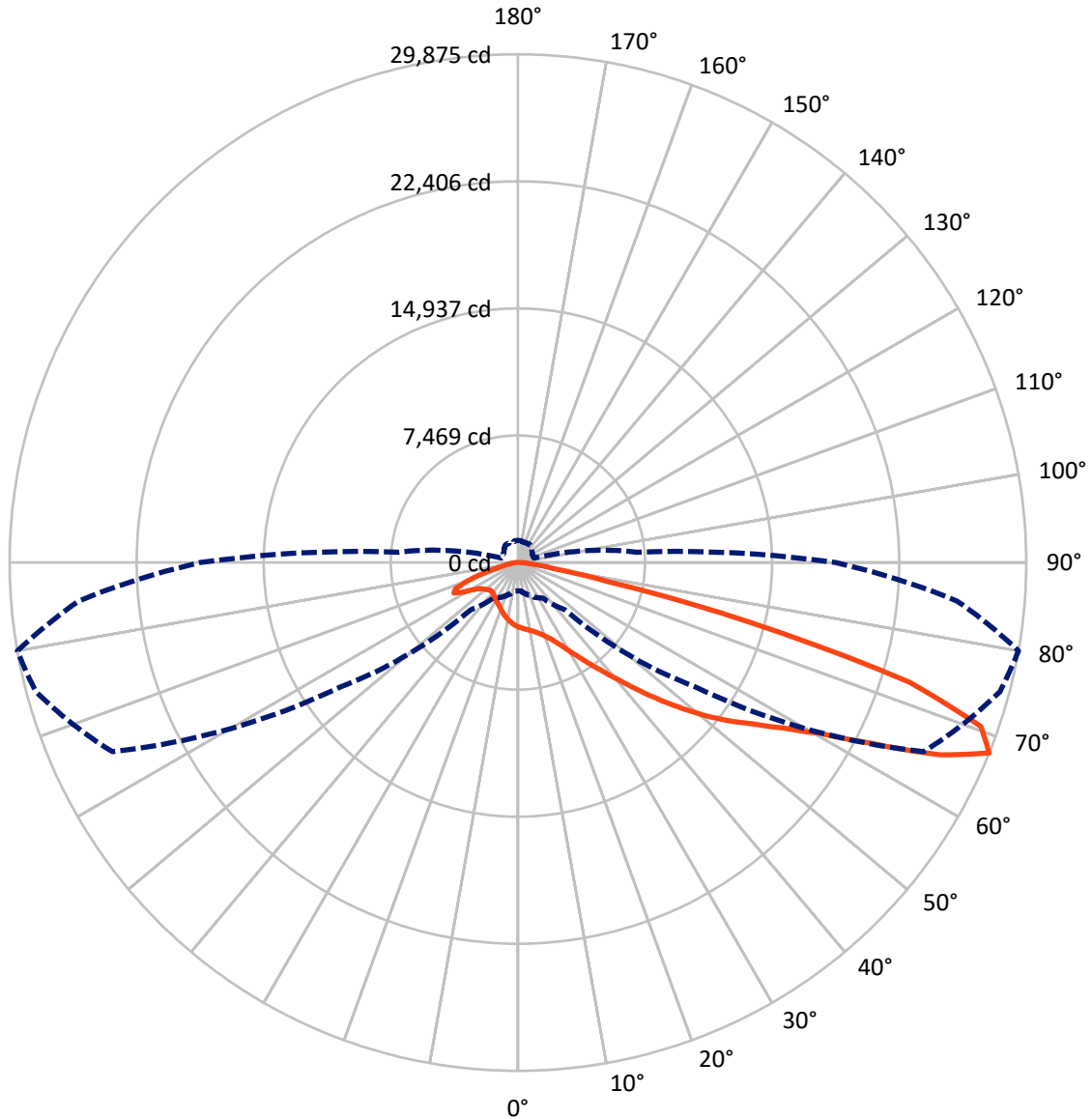
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	5013.2	0.0	5013.2
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	22208.7	0.0	22208.7
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	27222.0	0.0	27222.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.9	1.3
10°-20°	1005.0	3.7
20°-30°	1663.5	6.1
30°-40°	2721.0	10.0
40°-50°	4393.3	16.1
50°-60°	6342.7	23.3
60°-70°	6999.5	25.7
70°-80°	3226.3	11.9
80°-90°	521.8	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°	27222.0	100.0
0°-180°	27222.0	100.0



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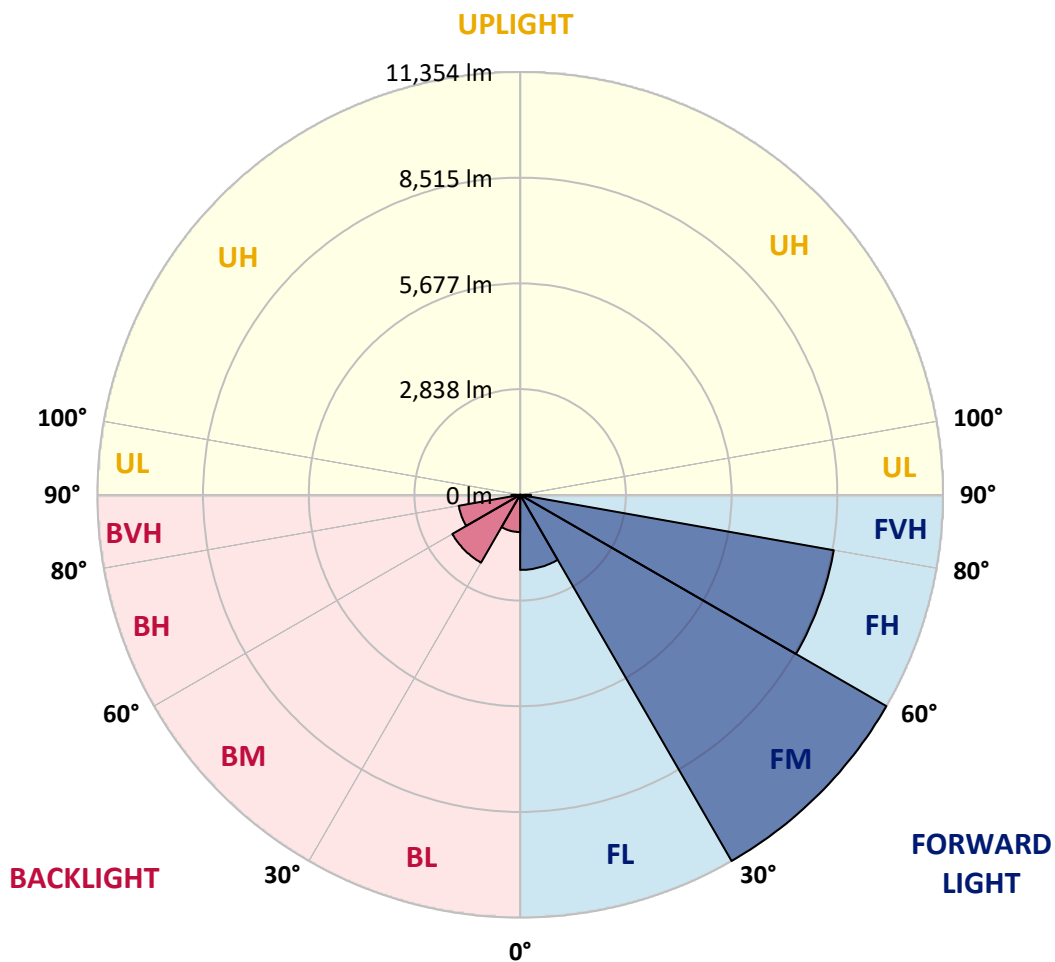
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2017.1	7.4			
FM (30°-60°)	11353.6	41.7			
FH (60°-80°)	8551.1	31.4			G4/12000
FVH (80°-90°)	286.9	1.1			G3/500
BL (0°-30°)	1000.2	3.7	B3/2500		
BM (30°-60°)	2103.4	7.7	B2/2500		
BH (60°-80°)	1674.7	6.2	B3/2500		G3/2500
BVH (80°-90°)	234.9	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°	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9
2.5°	4137.1	4112.9	4117.0	4110.3	4090.2	4055.3	4017.8	3949.4	3878.4	3840.9	3811.4
5°	4482.8	4476.1	4466.7	4445.3	4394.4	4322.0	4232.2	4111.6	3981.6	3913.3	3847.6
7.5°	4741.5	4737.5	4725.4	4712.0	4662.4	4575.3	4439.9	4268.4	4079.4	3985.6	3883.8
10°	4762.9	4769.6	4779.0	4815.2	4821.9	4775.0	4636.9	4429.2	4181.3	4060.7	3930.7
12.5°	4580.7	4595.4	4631.6	4724.1	4821.9	4879.5	4808.5	4598.1	4300.6	4154.5	3989.7
15°	4339.4	4347.5	4391.7	4519.0	4694.6	4872.8	4939.8	4784.4	4454.7	4275.1	4078.1
17.5°	4236.2	4240.3	4271.1	4355.5	4519.0	4773.6	5013.5	4986.7	4643.6	4425.2	4186.7
20°	4184.0	4193.4	4237.6	4320.7	4423.9	4646.3	5024.3	5205.2	4868.8	4612.8	4323.4
22.5°	4332.7	4328.7	4344.8	4386.3	4473.4	4607.5	5016.2	5430.3	5155.6	4854.1	4501.6
25°	4679.8	4694.6	4666.4	4619.5	4647.7	4741.5	5059.1	5674.2	5514.8	5163.6	4734.8
27.5°	5174.4	5159.6	5118.1	5008.2	4950.5	4990.8	5201.2	5936.9	5961.0	5571.0	5043.0
30°	5667.5	5655.5	5615.3	5481.2	5363.3	5329.8	5477.2	6238.4	6493.1	6060.2	5420.9
32.5°	6179.5	6166.1	6128.5	5994.5	5852.5	5774.7	5869.9	6586.9	7120.3	6644.5	5865.9
35°	6810.7	6785.2	6706.2	6519.9	6380.5	6320.2	6364.4	7025.1	7843.9	7336.0	6406.0
37.5°	7404.4	7443.2	7362.8	7105.5	6924.6	6903.2	6952.7	7559.8	8623.9	8109.3	7026.5
40°	8000.7	8007.4	7935.1	7724.7	7538.4	7503.5	7628.2	8208.5	9544.6	9034.0	7781.0
42.5°	8617.2	8630.6	8508.7	8314.3	8177.6	8184.3	8326.4	8968.3	10600.7	10123.6	8649.4
45°	9347.6	9367.7	9233.7	8979.1	8854.4	9105.0	9046.1	9820.7	11758.6	11361.9	9646.5
47.5°	10111.5	10142.3	10040.5	9801.9	9646.5	9990.9	9765.7	10765.5	13004.9	12690.0	10741.4
50°	10528.3	10572.5	10671.7	10654.3	10620.8	10563.1	10568.5	11778.7	14290.1	14073.0	11867.1
52.5°	10304.5	10303.1	10665.0	11104.6	11573.6	11608.5	11546.8	12846.8	15490.9	15425.2	12927.2
55°	9280.6	9350.3	9898.4	10749.4	12030.6	12830.7	13012.9	14070.3	16670.2	16746.6	14003.3
57.5°	7575.9	7633.5	8373.3	9559.4	11414.1	13557.0	15098.2	15848.7	17988.9	18345.4	15435.9
60°	5138.2	5207.9	5991.8	7416.4	9755.0	13152.3	17083.0	19022.2	19567.7	20378.5	17446.2
62.5°	3019.4	3082.4	3721.6	4678.5	6868.3	11272.1	17954.1	23537.2	22075.1	23446.1	20512.5
65°	2078.6	2121.5	2432.4	2912.2	3946.8	7592.0	16873.9	26654.4	25933.4	27246.8	24067.9
67.5°	1672.5	1667.2	1913.7	2240.7	2540.9	3914.6	12759.6	26302.0	29326.7	29874.8	25913.3
70°	1377.7	1372.3	1539.8	1810.6	2030.3	2204.6	6950.1	22195.7	28635.2	28857.6	24214.0
72.5°	1152.5	1157.9	1265.1	1466.1	1665.8	1660.5	3054.2	15614.2	22526.7	24065.2	19302.3
75°	973.0	975.6	1046.7	1188.7	1352.2	1337.5	1656.4	8459.1	13094.7	14165.5	10699.8
77.5°	828.2	830.9	876.5	955.5	1072.1	1066.8	1208.8	3654.6	5462.5	5395.5	3660.0
80°	738.4	738.4	759.9	774.6	838.9	814.8	896.6	1755.6	2309.1	2132.2	1460.8
82.5°	578.9	581.6	713.0	707.6	660.7	629.9	629.9	1034.6	1223.6	1131.1	855.0
85°	325.7	324.3	459.7	554.8	581.6	443.6	439.6	578.9	666.1	587.0	414.1
87.5°	139.4	142.1	213.1	246.6	329.7	276.1	272.1	298.9	339.1	293.5	191.6
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°	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9	3781.9
2.5°	3783.3	3748.4	3672.0	3576.9	3491.1	3434.8	3383.9	3310.2	3314.2	3263.3	3225.8
5°	3780.6	3708.2	3531.3	3320.9	3118.5	2972.5	2862.6	2763.4	2739.3	2692.4	2664.2
7.5°	3783.3	3665.3	3367.8	3031.4	2780.8	2595.9	2502.1	2449.8	2437.7	2421.7	2423.0
10°	3792.6	3626.5	3188.2	2760.7	2498.1	2376.1	2353.3	2369.4	2388.2	2393.5	2394.9
12.5°	3814.1	3591.6	2991.2	2519.5	2321.2	2283.6	2322.5	2377.4	2413.6	2431.0	2429.7
15°	3862.3	3564.8	2802.3	2330.5	2223.3	2243.4	2315.8	2393.5	2445.8	2469.9	2471.3
17.5°	3914.6	3526.0	2607.9	2185.8	2151.0	2201.9	2291.7	2382.8	2447.1	2473.9	2479.3
20°	3983.0	3477.7	2404.2	2077.2	2082.6	2140.2	2224.7	2315.8	2386.8	2409.6	2420.3
22.5°	4072.7	3425.4	2226.0	1988.8	2004.9	2049.1	2114.8	2193.8	2255.5	2266.2	2275.6
25°	4193.4	3369.2	2083.9	1908.4	1915.1	1940.5	1984.8	2031.7	2074.6	2062.5	2071.9
27.5°	4355.5	3320.9	1978.1	1834.7	1822.6	1828.0	1850.8	1865.5	1888.3	1854.8	1858.8
30°	4545.8	3268.6	1896.3	1770.3	1736.8	1727.5	1732.8	1740.9	1758.3	1712.7	1706.0
32.5°	4766.9	3205.7	1819.9	1714.1	1667.2	1648.4	1651.1	1672.5	1739.5	1711.4	1696.6
35°	5024.3	3134.6	1739.5	1652.4	1620.3	1593.4	1590.8	1657.8	1857.5	1840.0	1826.6
37.5°	5325.8	3063.6	1659.1	1582.7	1585.4	1555.9	1546.5	1622.9	1880.2	1811.9	1802.5
40°	5709.1	3026.1	1590.8	1509.0	1542.5	1538.5	1519.7	1558.6	1730.1	1605.5	1589.4
42.5°	6183.5	3031.4	1539.8	1429.9	1491.6	1534.5	1505.0	1506.3	1568.0	1474.2	1459.4
45°	6769.1	3094.4	1503.7	1367.0	1434.0	1530.5	1499.6	1478.2	1483.6	1434.0	1425.9
47.5°	7452.6	3224.4	1478.2	1314.7	1379.0	1515.7	1498.3	1470.2	1458.1	1431.3	1424.6
50°	8212.5	3413.4	1459.4	1265.1	1329.4	1491.6	1499.6	1462.1	1448.7	1438.0	1434.0
52.5°	8959.0	3629.1	1431.3	1222.2	1290.6	1462.1	1503.7	1454.1	1439.3	1431.3	1427.3
55°	9791.2	3898.5	1388.4	1186.0	1258.4	1424.6	1503.7	1442.0	1425.9	1427.3	1425.9
57.5°	10915.6	4334.1	1337.5	1155.2	1219.5	1379.0	1478.2	1428.6	1408.5	1409.8	1411.2
60°	12672.5	5102.0	1275.8	1124.4	1171.3	1325.4	1443.4	1399.1	1379.0	1384.4	1385.7
62.5°	15256.4	6229.1	1195.4	1078.8	1120.4	1267.8	1395.1	1361.6	1341.5	1354.9	1354.9
65°	17942.0	7223.5	1096.2	1021.2	1066.8	1204.8	1334.8	1314.7	1294.6	1325.4	1324.1
67.5°	18664.4	7001.0	997.1	958.2	1013.2	1135.1	1262.4	1251.7	1241.0	1294.6	1291.9
70°	16580.4	5620.6	905.9	893.9	954.2	1060.1	1184.7	1184.7	1178.0	1218.2	1208.8
72.5°	12632.3	3985.6	818.8	825.5	887.2	978.3	1100.3	1109.7	1098.9	1119.0	1111.0
75°	6762.4	2280.9	731.7	750.5	804.1	895.2	1006.5	1015.8	1009.1	1007.8	1011.8
77.5°	2247.4	1115.0	640.6	670.1	717.0	809.5	908.6	923.4	907.3	904.6	903.3
80°	1001.1	700.9	540.1	578.9	620.5	711.6	805.4	817.5	800.1	824.2	793.4
82.5°	643.3	461.0	432.9	475.8	516.0	613.8	702.2	704.9	688.8	800.1	682.1
85°	312.3	285.5	325.7	364.5	399.4	482.5	581.6	583.0	542.8	494.5	477.1
87.5°	155.5	166.2	217.1	251.9	269.4	331.0	423.5	415.4	398.0	361.8	333.7
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)