

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: P269580

Luminaire Tested: **GLEON-AF-08-LED-E1-T2-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269580  
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-08-LED-E1-T2-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 44617.2 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Medium - Full Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 511  
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

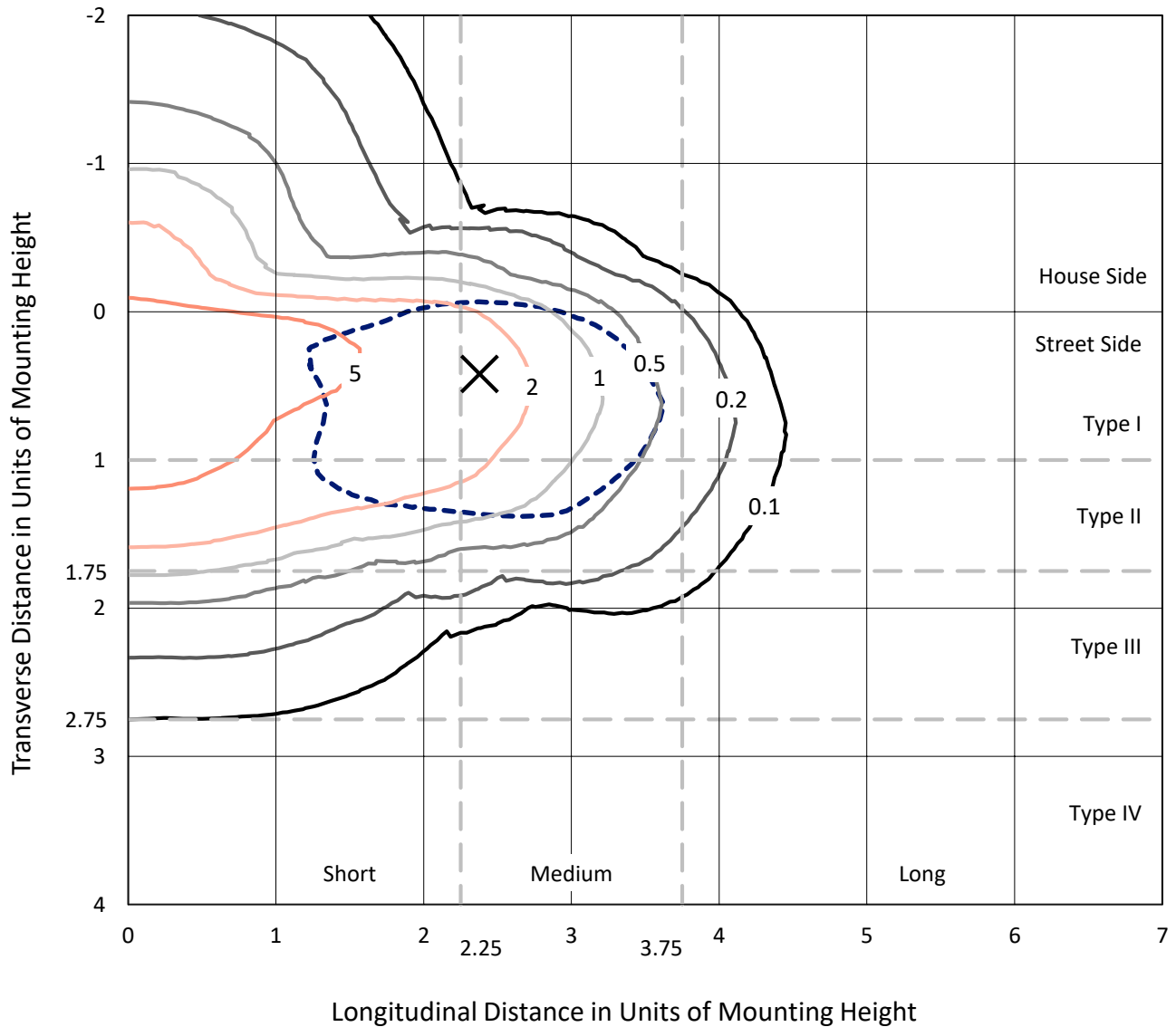


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

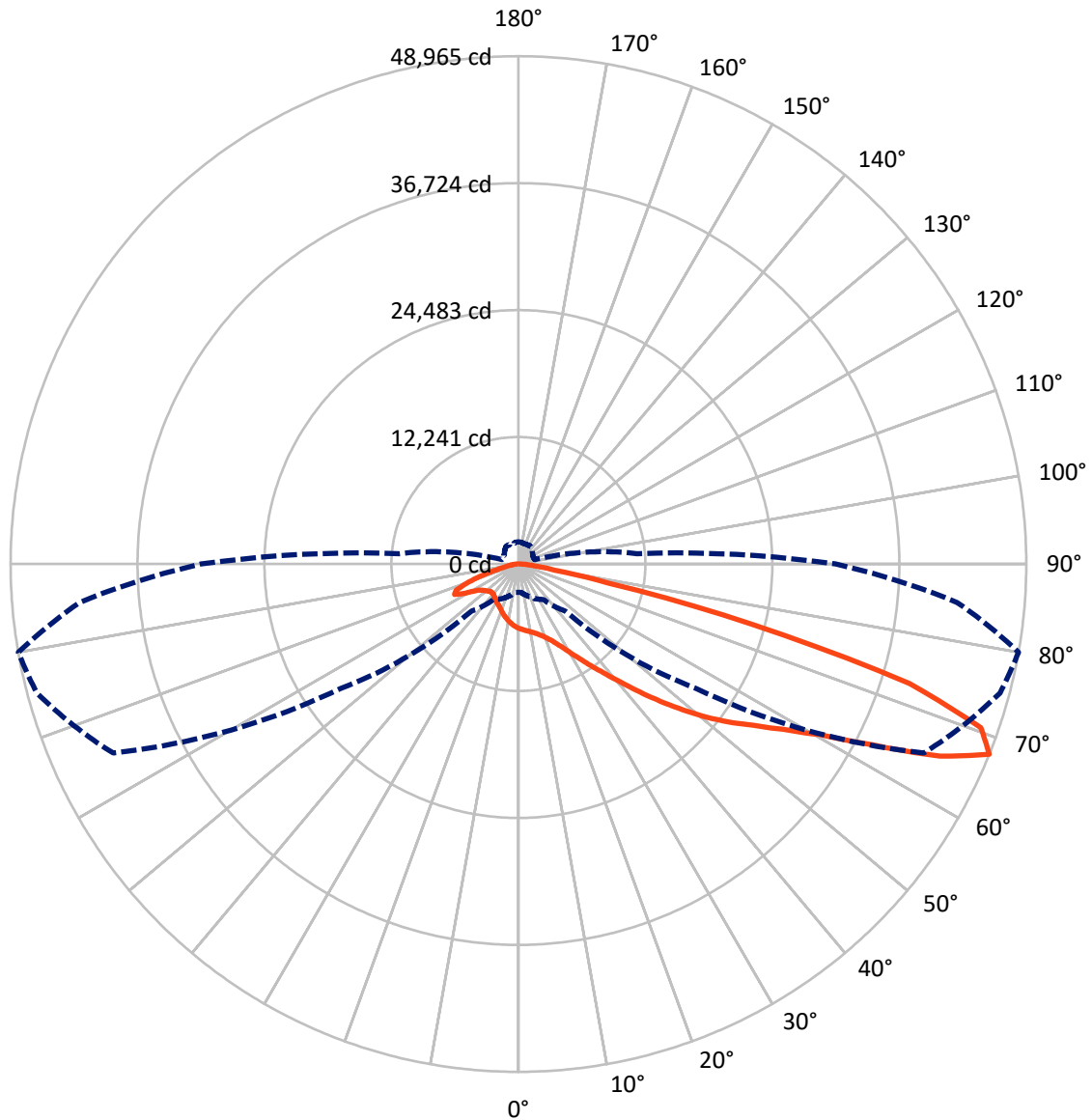


Based on 30 foot mounting height. Maximum calculated value = 8.4 fc  
 Type II - Medium - Full Cutoff

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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	8216.8	0.0	8216.8
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	36400.4	0.0	36400.4
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	44617.2	0.0	44617.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	571.8	1.3
10°-20°	1647.2	3.7
20°-30°	2726.4	6.1
30°-40°	4459.7	10.0
40°-50°	7200.7	16.1
50°-60°	10395.7	23.3
60°-70°	11472.3	25.7
70°-80°	5288.0	11.9
80°-90°	855.3	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°	44617.2	100.0
0°-180°	44617.2	100.0



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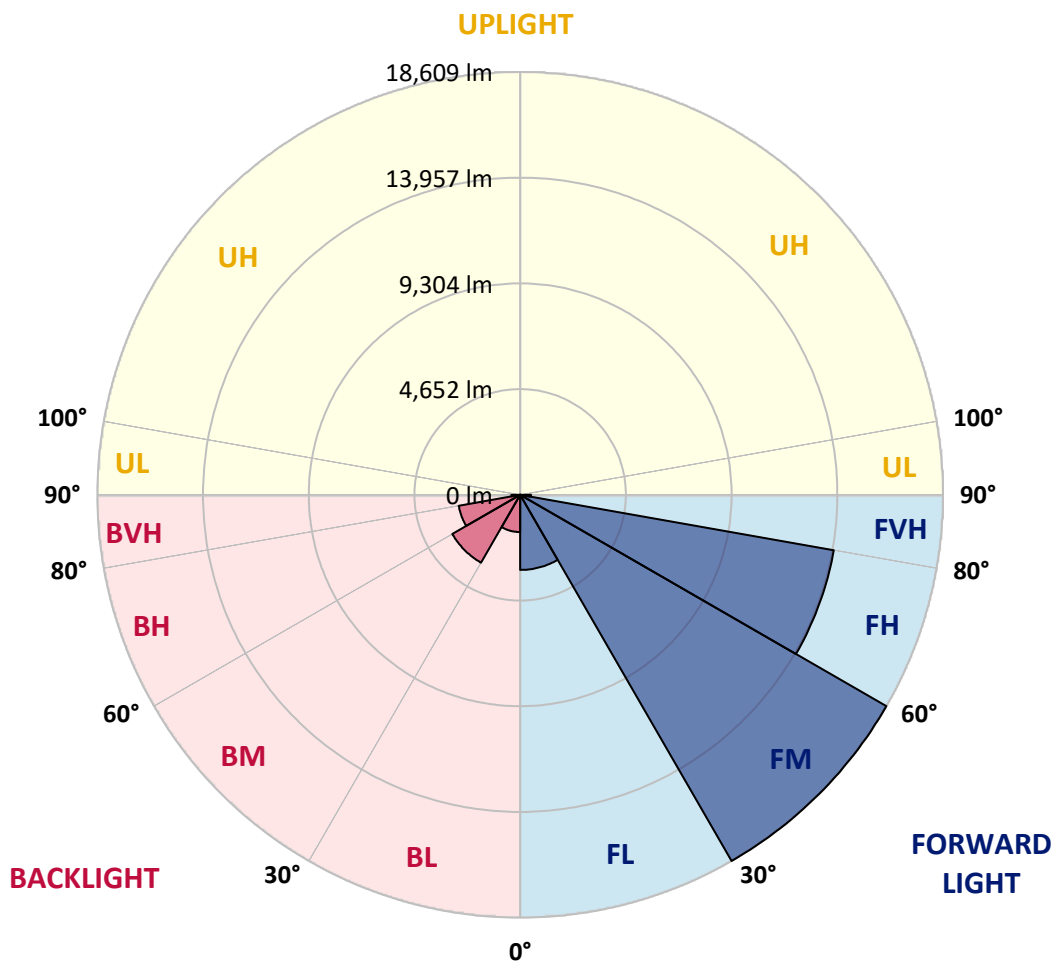
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3306.0	7.4			
FM (30°-60°)	18608.7	41.7			
FH (60°-80°)	14015.4	31.4			G5
FVH (80°-90°)	470.2	1.1			G3/500
BL (0°-30°)	1639.4	3.7	B3/2500		
BM (30°-60°)	3447.5	7.7	B3/5000		
BH (60°-80°)	2744.9	6.2	B4/5000		G4/5000
BVH (80°-90°)	385.1	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7
2.5°	6780.6	6741.2	6747.8	6736.7	6703.8	6646.6	6585.2	6473.1	6356.8	6295.2	6247.0
5°	7347.3	7336.5	7321.0	7286.0	7202.4	7083.9	6936.6	6738.9	6525.8	6413.9	6306.2
7.5°	7771.3	7764.8	7744.9	7723.0	7641.7	7499.1	7277.1	6996.0	6686.3	6532.6	6365.6
10°	7806.5	7817.5	7832.9	7892.1	7903.1	7826.3	7600.0	7259.6	6853.2	6655.5	6442.5
12.5°	7507.8	7531.8	7591.2	7742.9	7903.1	7997.6	7881.2	7536.3	7048.7	6809.2	6539.1
15°	7112.4	7125.5	7198.1	7406.7	7694.4	7986.7	8096.5	7841.7	7301.2	7007.0	6684.1
17.5°	6943.3	6949.8	7000.3	7138.7	7406.7	7824.1	8217.2	8173.3	7611.0	7252.9	6862.0
20°	6857.7	6872.9	6945.4	7081.6	7250.8	7615.4	8234.9	8531.4	7980.1	7560.5	7086.0
22.5°	7101.5	7094.9	7121.1	7189.2	7332.1	7551.7	8221.6	8900.3	8450.0	7955.8	7378.1
25°	7670.3	7694.4	7648.3	7571.5	7617.5	7771.3	8292.0	9300.2	9038.7	8463.2	7760.4
27.5°	8480.8	8456.6	8388.6	8208.4	8114.0	8179.8	8524.7	9730.6	9770.1	9131.0	8265.6
30°	9289.2	9269.4	9203.5	8983.8	8790.5	8735.6	8977.2	10224.9	10642.2	9932.6	8885.0
32.5°	10128.2	10106.2	10044.8	9825.1	9592.3	9464.9	9620.8	10796.0	11670.2	10890.4	9614.2
35°	11162.8	11121.0	10991.4	10686.1	10457.7	10358.9	10431.4	11514.2	12856.4	12023.9	10499.4
37.5°	12135.8	12199.5	12067.8	11646.0	11349.5	11314.3	11395.5	12390.6	14134.7	13291.2	11516.5
40°	13113.3	13124.2	13005.8	12660.8	12355.5	12298.3	12502.7	13453.7	15643.8	14806.9	12753.1
42.5°	14123.7	14145.7	13945.7	13627.3	13403.3	13414.2	13647.1	14699.2	17374.6	16592.7	14176.4
45°	15320.9	15353.8	15134.1	14716.8	14512.5	14923.3	14826.6	16096.2	19272.3	18622.3	15810.7
47.5°	16572.9	16623.3	16456.4	16065.5	15810.7	16375.2	16006.2	17644.8	21315.2	20798.9	17605.3
50°	17256.0	17328.5	17491.0	17462.4	17407.5	17313.2	17321.8	19305.4	23421.7	23065.8	19450.3
52.5°	16889.2	16887.0	17479.9	18200.5	18969.2	19026.5	18925.3	21056.0	25389.8	25282.1	21187.8
55°	15211.0	15325.3	16223.6	17618.4	19718.2	21029.6	21328.4	23061.4	27322.7	27447.9	22951.5
57.5°	12417.0	12511.5	13723.9	15667.9	18707.9	22220.1	24746.1	25976.2	29484.1	30068.3	25299.7
60°	8421.5	8535.8	9820.7	12155.7	15988.7	21556.7	27999.2	31177.7	32071.6	33400.5	28594.5
62.5°	4948.9	5052.1	6099.9	7668.1	11257.2	18475.0	29426.9	38577.7	36181.4	38428.4	33620.1
65°	3406.8	3477.1	3986.7	4773.1	6468.8	12443.4	27656.6	43686.9	42505.1	44657.8	39447.6
67.5°	2741.3	2732.5	3136.6	3672.6	4164.6	6416.1	20913.3	43109.2	48066.8	48965.2	42472.3
70°	2258.0	2249.3	2523.8	2967.6	3327.7	3613.3	11391.2	36379.0	46933.3	47298.0	39686.9
72.5°	1889.0	1897.8	2073.6	2403.0	2730.3	2721.5	5006.0	25591.9	36921.5	39443.1	31636.7
75°	1594.8	1599.1	1715.6	1948.3	2216.3	2192.1	2714.9	13864.5	21462.3	23217.4	17537.2
77.5°	1357.5	1361.8	1436.5	1566.1	1757.3	1748.5	1981.3	5990.0	8953.0	8843.3	5998.7
80°	1210.2	1210.2	1245.4	1269.7	1375.0	1335.5	1469.4	2877.5	3784.6	3494.6	2394.3
82.5°	948.9	953.3	1168.5	1159.8	1082.8	1032.4	1032.4	1695.7	2005.5	1853.9	1401.4
85°	533.8	531.5	753.4	909.4	953.3	727.1	720.5	948.9	1091.7	962.1	678.7
87.5°	228.3	232.8	349.3	404.1	540.3	452.4	445.9	489.8	555.7	481.0	314.0
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°	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7	6198.7
2.5°	6200.8	6143.7	6018.6	5862.6	5721.9	5629.7	5546.2	5425.5	5432.1	5348.6	5287.1
5°	6196.4	6077.8	5787.9	5443.0	5111.4	4871.9	4691.8	4529.3	4489.6	4412.8	4366.8
7.5°	6200.8	6007.5	5519.8	4968.5	4557.8	4254.7	4100.9	4015.2	3995.5	3969.2	3971.3
10°	6216.2	5943.8	5225.6	4524.9	4094.4	3894.4	3857.1	3883.5	3914.3	3923.0	3925.2
12.5°	6251.3	5886.8	4902.7	4129.5	3804.4	3742.9	3806.6	3896.7	3956.0	3984.5	3982.4
15°	6330.4	5842.8	4592.9	3819.8	3644.1	3677.0	3795.6	3923.0	4008.6	4048.2	4050.4
17.5°	6416.1	5779.1	4274.4	3582.5	3525.5	3608.9	3756.1	3905.4	4010.8	4054.8	4063.7
20°	6528.2	5700.0	3940.5	3404.7	3413.4	3507.9	3646.2	3795.6	3911.9	3949.4	3966.9
22.5°	6675.2	5614.3	3648.5	3259.7	3286.0	3358.6	3466.1	3595.7	3696.7	3714.3	3729.8
25°	6872.9	5522.2	3415.6	3127.9	3138.9	3180.5	3253.0	3329.9	3400.3	3380.4	3395.9
27.5°	7138.7	5443.0	3242.2	3007.0	2987.4	2996.0	3033.3	3057.7	3094.9	3040.0	3046.6
30°	7450.6	5357.3	3108.0	2901.6	2846.6	2831.4	2840.1	2853.2	2881.9	2807.2	2796.2
32.5°	7813.1	5254.0	2982.9	2809.4	2732.5	2701.7	2706.1	2741.3	2851.1	2805.0	2780.9
35°	8234.9	5137.6	2851.1	2708.3	2655.6	2611.7	2607.3	2717.2	3044.4	3015.8	2994.0
37.5°	8729.0	5021.3	2719.3	2594.1	2598.4	2550.2	2534.7	2660.1	3081.7	2969.6	2954.3
40°	9357.3	4959.8	2607.3	2473.4	2528.2	2521.6	2490.9	2554.6	2835.7	2631.4	2605.1
42.5°	10134.8	4968.5	2523.8	2343.7	2444.7	2515.1	2466.7	2468.9	2570.0	2416.3	2392.0
45°	11094.6	5071.8	2464.5	2240.5	2350.2	2508.4	2457.9	2422.8	2431.5	2350.2	2337.1
47.5°	12215.0	5284.9	2422.8	2154.9	2260.2	2484.4	2455.7	2409.7	2389.9	2346.0	2335.0
50°	13460.4	5594.6	2392.0	2073.6	2179.0	2444.7	2457.9	2396.4	2374.5	2357.0	2350.2
52.5°	14683.9	5948.1	2346.0	2003.2	2115.2	2396.4	2464.5	2383.3	2359.0	2346.0	2339.2
55°	16048.0	6389.7	2275.5	1943.9	2062.6	2335.0	2464.5	2363.5	2337.1	2339.2	2337.1
57.5°	17890.7	7103.5	2192.1	1893.4	1998.9	2260.2	2422.8	2341.5	2308.6	2310.8	2313.0
60°	20770.4	8362.2	2091.2	1843.0	1919.8	2172.5	2365.6	2293.3	2260.2	2268.9	2271.3
62.5°	25005.4	10209.4	1959.4	1768.3	1836.3	2077.9	2286.5	2231.7	2198.7	2220.7	2220.7
65°	29407.3	11839.3	1796.8	1673.7	1748.5	1974.7	2187.7	2154.9	2121.8	2172.5	2170.1
67.5°	30591.2	11474.7	1634.2	1570.5	1660.5	1860.5	2069.2	2051.5	2034.0	2121.8	2117.5
70°	27175.5	9212.3	1484.9	1465.0	1563.9	1737.4	1941.7	1941.7	1930.7	1996.7	1981.3
72.5°	20704.6	6532.6	1342.1	1353.0	1454.0	1603.5	1803.3	1818.7	1801.1	1834.1	1821.0
75°	11083.6	3738.4	1199.2	1230.0	1318.0	1467.3	1649.6	1665.0	1654.0	1651.9	1658.5
77.5°	3683.6	1827.5	1049.9	1098.3	1175.2	1326.6	1489.2	1513.5	1487.1	1482.7	1480.4
80°	1640.8	1148.8	885.2	948.9	1017.1	1166.4	1320.1	1339.9	1311.3	1351.0	1300.3
82.5°	1054.3	755.7	709.5	779.8	845.7	1006.0	1151.0	1155.4	1129.0	1311.3	1118.0
85°	511.8	467.8	533.8	597.5	654.5	790.8	953.3	955.4	889.6	810.5	782.0
87.5°	254.8	272.4	355.9	413.0	441.4	542.5	694.1	680.9	652.3	593.2	547.0
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)