

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: P194007

Luminaire Tested: **GLEON-AF-09-LED-E1-T3-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194007  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-09-LED-E1-T3-8030-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47645 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B4 - U0 - G5

Input Watts (W): 575  
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

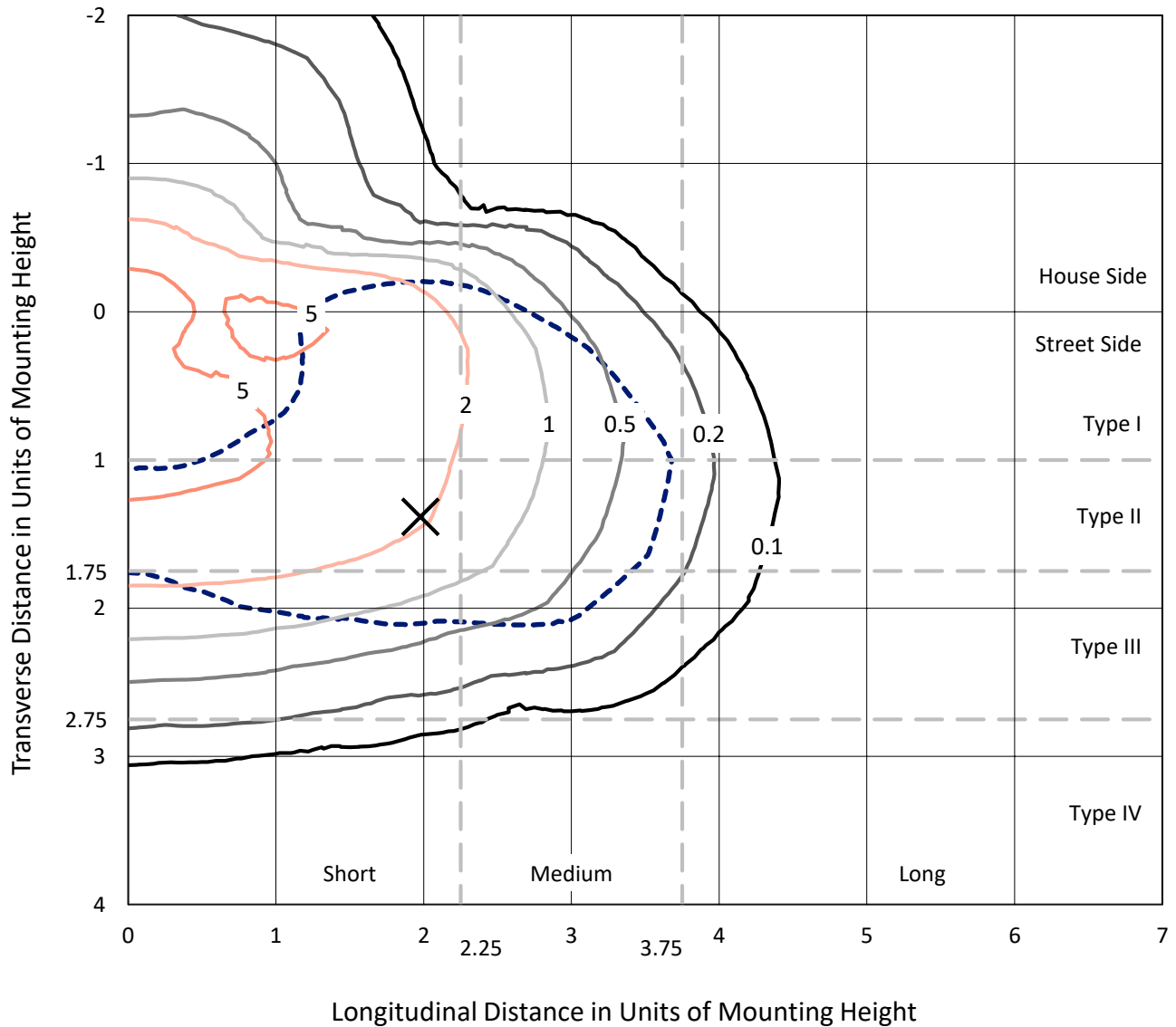


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

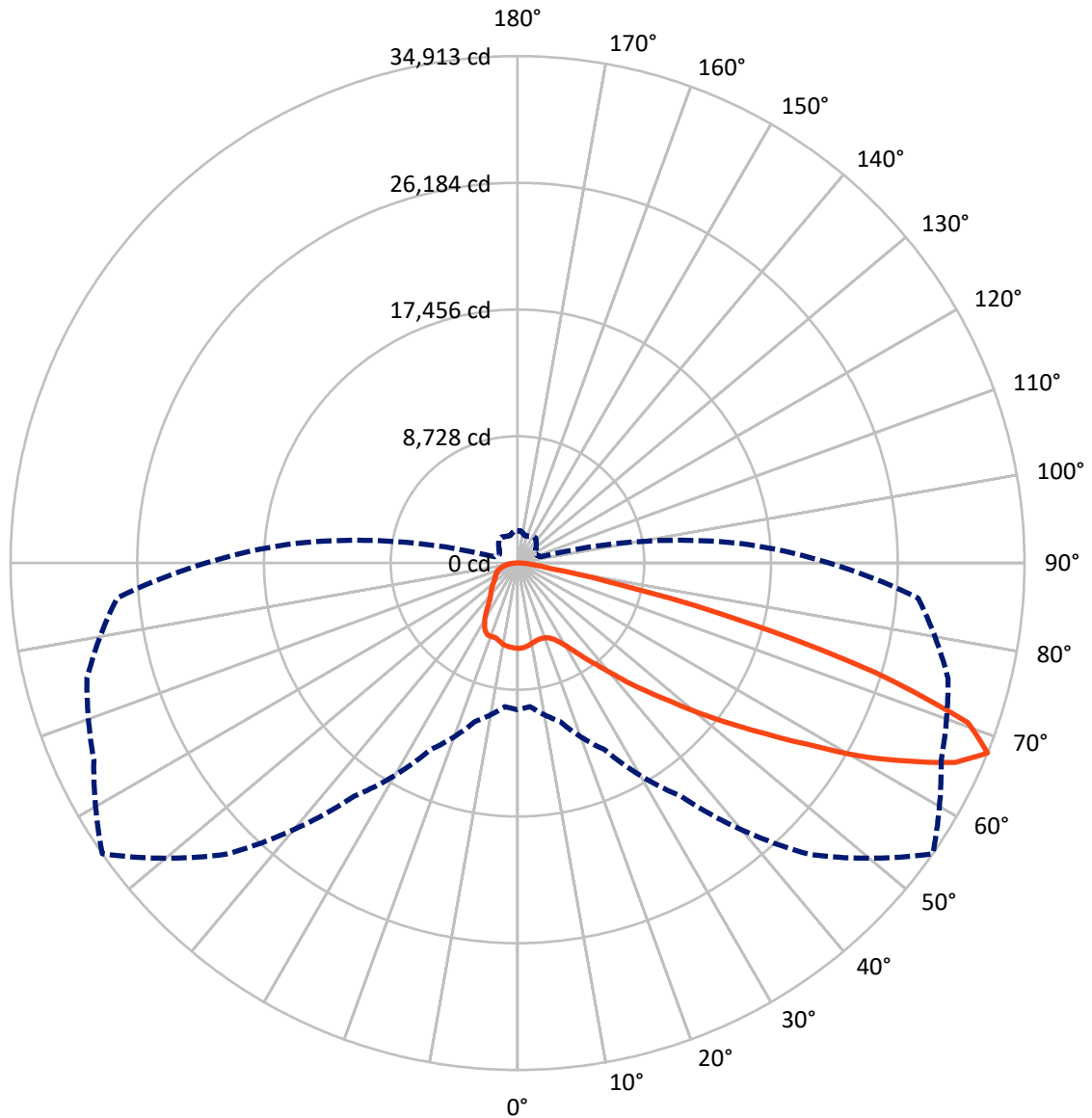


Based on 30 foot mounting height. Maximum calculated value = 6.7 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10292.3	0.0	10292.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	37352.7	0.0	37352.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	47645.0	0.0	47645.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	548.4	1.2
10°-20°	1553.1	3.3
20°-30°	2601.6	5.5
30°-40°	4278.2	9.0
40°-50°	7201.6	15.1
50°-60°	11334.7	23.8
60°-70°	13526.8	28.4
70°-80°	5808.6	12.2
80°-90°	792.0	1.7
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°	47645.0	100.0
0°-180°	47645.0	100.0



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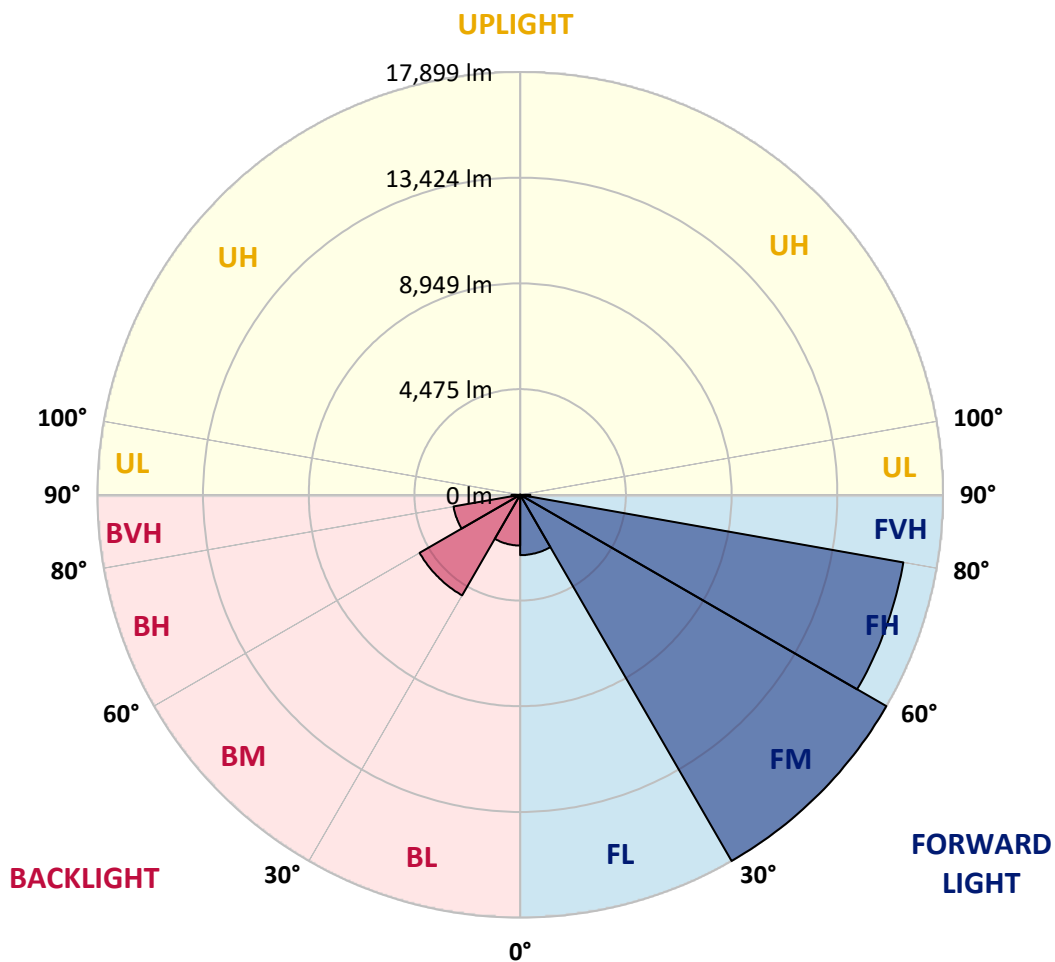
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2553.9	5.4			
FM	(30°-60°)	17899.0	37.6			
FH	(60°-80°)	16471.1	34.6			G5
FVH	(80°-90°)	428.7	0.9			G3/500
BL	(0°-30°)	2149.2	4.5	B3/2500		
BM	(30°-60°)	4915.5	10.3	B3/5000		
BH	(60°-80°)	2864.3	6.0	B4/5000		G4/5000
BVH	(80°-90°)	363.3	0.8			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1
2.5°	5824.5	5826.8	5831.4	5849.8	5865.9	5861.3	5863.6	5854.4	5852.1	5838.3	5852.1
5°	5750.9	5757.8	5760.1	5790.0	5808.4	5813.0	5806.1	5794.6	5780.8	5767.0	5773.9
7.5°	5582.9	5601.3	5603.6	5645.0	5674.9	5714.1	5716.4	5718.7	5711.8	5702.6	5716.4
10°	5477.0	5481.6	5479.3	5509.2	5532.3	5576.0	5601.3	5645.0	5663.4	5668.0	5677.2
12.5°	5470.1	5465.5	5458.6	5458.6	5451.7	5470.1	5516.2	5578.3	5622.0	5635.8	5647.3
15°	5543.8	5541.5	5518.5	5483.9	5440.2	5426.4	5465.5	5534.6	5592.1	5622.0	5633.5
17.5°	5709.5	5695.6	5658.8	5580.6	5486.2	5449.4	5454.0	5511.5	5578.3	5617.4	5628.9
20°	6013.2	6013.2	5935.0	5787.7	5619.7	5532.3	5490.8	5525.4	5589.8	5642.7	5658.8
22.5°	6537.9	6542.5	6411.3	6169.7	5886.7	5700.3	5596.7	5589.8	5665.7	5725.6	5744.0
25°	7281.2	7262.8	7078.7	6733.5	6303.2	5994.8	5815.3	5773.9	5838.3	5905.1	5928.1
27.5°	8146.5	8079.8	7861.1	7444.6	6887.7	6436.7	6160.5	6093.8	6155.9	6231.8	6254.9
30°	9002.6	8933.5	8673.5	8217.8	7598.8	7028.1	6632.3	6524.1	6611.6	6719.7	6733.5
32.5°	9858.7	9858.7	9568.7	9037.1	8362.8	7734.6	7260.5	7131.6	7276.6	7407.8	7437.7
35°	10882.7	10887.3	10606.6	9966.8	9241.9	8576.8	8054.5	7960.1	8178.7	8270.8	8342.1
37.5°	12141.5	12166.8	11805.5	11032.3	10238.4	9538.8	8917.4	8788.6	9007.2	9258.0	9488.1
40°	13501.6	13533.8	13135.7	12182.9	11389.0	10657.2	9985.2	9752.8	10116.4	10595.1	10891.9
42.5°	14799.5	14965.2	14580.9	13600.5	12746.7	11989.6	11308.5	10970.2	11425.8	12148.4	12406.2
45°	16675.0	16794.7	16125.0	15236.7	14433.6	13586.7	12684.6	12327.9	12965.4	13876.7	13929.6
47.5°	17924.6	17834.9	17494.3	16942.0	16433.4	15641.7	14284.0	13892.8	14739.7	15812.0	15515.2
50°	18589.7	18617.3	18571.3	18603.5	18621.9	18124.8	16244.7	15708.5	16718.7	18014.4	17330.9
52.5°	19211.0	19026.9	19178.8	19933.6	20844.9	20660.8	18378.0	17818.8	18840.5	20458.3	19250.1
55°	19197.2	18916.5	19411.2	20743.7	22720.5	22932.2	20773.6	20129.2	21084.3	23079.5	21284.5
57.5°	18518.3	18532.1	19293.9	21038.2	24027.6	25067.8	23553.5	22587.0	23463.8	25735.1	23141.6
60°	17584.0	17710.6	18808.3	20989.9	25074.7	26819.0	26964.0	25235.8	25795.0	28149.2	24678.8
62.5°	16076.7	16210.2	17724.4	20488.2	24915.9	28505.9	30047.7	28241.2	28232.0	29612.8	25129.9
65°	13699.5	13660.4	15250.5	18612.7	23583.4	29753.2	33110.7	30839.4	30068.4	29635.8	24223.2
67.5°	10102.6	9927.7	11292.3	14175.8	19602.2	28356.3	34912.6	32192.5	30694.4	27686.6	21452.5
70°	5242.3	5067.4	6172.0	8277.7	12891.7	22131.3	32917.4	31492.9	29311.3	23208.3	16806.2
72.5°	2241.4	2211.5	2660.3	3631.4	6236.4	12765.2	25811.1	27258.6	25150.6	17291.8	11554.7
75°	1507.3	1498.1	1666.1	1979.1	2805.3	5180.2	16152.6	19349.1	18401.0	10721.6	6498.8
77.5°	1182.9	1171.3	1270.3	1422.2	1818.0	2043.5	7168.5	10387.9	9614.7	4667.0	2844.4
80°	925.1	915.9	978.0	1060.9	1307.1	1288.7	2358.8	4133.1	3198.8	1788.1	1383.1
82.5°	729.5	729.5	780.1	782.4	927.4	879.1	1231.2	1820.3	1597.1	1042.5	846.9
85°	667.4	667.4	720.3	584.5	605.2	554.6	764.0	1079.3	1012.6	428.0	368.2
87.5°	336.0	326.8	605.2	517.8	329.1	294.6	372.8	522.4	561.5	237.0	184.1
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1	5875.1
2.5°	5847.5	5845.2	5849.8	5852.1	5870.5	5895.9	5907.4	5923.5	5932.7	5928.1
5°	5778.5	5783.1	5801.5	5815.3	5847.5	5889.0	5912.0	5930.4	5946.5	5939.6
7.5°	5721.0	5732.5	5760.1	5771.6	5790.0	5801.5	5799.2	5806.1	5819.9	5803.8
10°	5688.7	5702.6	5723.3	5707.2	5663.4	5601.3	5543.8	5513.8	5523.1	5511.5
12.5°	5656.5	5674.9	5658.8	5582.9	5460.9	5380.4	5336.7	5341.3	5362.0	5366.6
15°	5638.1	5645.0	5576.0	5433.3	5309.0	5297.5	5320.5	5315.9	5318.2	5318.2
17.5°	5638.1	5619.7	5490.8	5348.2	5295.2	5274.5	5203.2	5113.4	5074.3	5060.5
20°	5668.0	5619.7	5463.2	5368.9	5253.8	5076.6	4887.9	4722.2	4648.6	4627.9
22.5°	5757.8	5674.9	5541.5	5378.1	5051.3	4754.4	4455.3	4257.4	4123.9	4100.9
25°	5939.6	5847.5	5695.6	5256.1	4729.1	4305.7	3965.1	3744.2	3610.7	3592.3
27.5°	6257.2	6197.3	5778.5	4986.9	4301.1	3847.7	3532.5	3362.2	3263.2	3256.3
30°	6735.8	6705.9	5737.1	4588.7	3774.1	3403.6	3251.7	3152.7	3079.1	3076.8
32.5°	7499.8	7258.2	5601.3	4103.2	3293.1	3088.3	3026.2	2966.3	2908.8	2908.8
35°	8482.5	7704.7	5343.6	3583.1	3000.9	2913.4	2835.2	2740.8	2664.9	2660.3
37.5°	9637.7	7980.8	4881.0	3164.2	2862.8	2796.0	2681.0	2540.6	2407.1	2384.1
40°	10804.5	8063.7	4229.7	2906.5	2775.3	2678.7	2538.3	2372.6	2243.7	2236.8
42.5°	11874.6	7904.9	3539.4	2729.3	2687.9	2559.0	2411.7	2264.5	2163.2	2160.9
45°	12772.1	7492.9	2959.4	2561.3	2595.8	2450.9	2319.7	2200.0	2121.8	2105.7
47.5°	13616.6	6910.7	2552.1	2384.1	2503.8	2391.0	2280.6	2167.8	2091.9	2080.4
50°	14597.0	6282.5	2266.8	2211.5	2423.2	2370.3	2312.8	2195.4	2068.8	2055.0
52.5°	15784.4	5739.4	2043.5	2059.6	2361.1	2397.9	2395.6	2273.7	2052.7	2034.3
55°	17110.0	5136.4	1875.5	1935.4	2335.8	2448.6	2416.3	2347.3	2066.5	2038.9
57.5°	18414.8	4432.3	1758.2	1841.0	2299.0	2444.0	2317.4	2218.4	2098.8	2059.6
60°	19392.8	3486.4	1668.4	1758.2	2218.4	2368.0	2209.2	2078.0	2091.9	2061.9
62.5°	19457.3	2694.8	1560.3	1686.8	2096.5	2292.1	2137.9	2015.9	2121.8	2094.2
65°	18313.5	2036.6	1456.7	1601.7	1965.3	2243.7	2068.8	1981.4	2183.9	2154.0
67.5°	15418.5	1638.5	1369.3	1514.2	1834.1	2142.5	2006.7	1949.2	2239.1	2186.2
70°	11131.3	1396.9	1284.1	1408.4	1716.7	2027.4	1951.5	1891.6	2089.6	2006.7
72.5°	6853.2	1210.5	1187.5	1268.0	1627.0	1907.8	1868.6	1783.5	1882.4	1815.7
75°	3422.0	1049.4	1079.3	1129.9	1500.4	1772.0	1730.6	1645.4	1659.2	1645.4
77.5°	1638.5	897.5	952.7	991.8	1337.0	1617.8	1574.1	1486.6	1470.5	1472.8
80°	1037.9	750.2	803.1	830.8	1194.4	1438.3	1394.6	1307.1	1491.2	1383.1
82.5°	649.0	609.8	623.6	674.3	1040.2	1251.9	1194.4	1116.1	1343.9	1063.2
85°	359.0	425.7	444.1	487.9	800.8	1047.1	989.5	890.6	798.5	784.7
87.5°	214.0	253.1	260.0	292.3	538.5	757.1	669.7	635.2	527.0	524.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)