

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: P193206

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193206
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-08-LED-E1-T3-7030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 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: 50624.2 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - 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

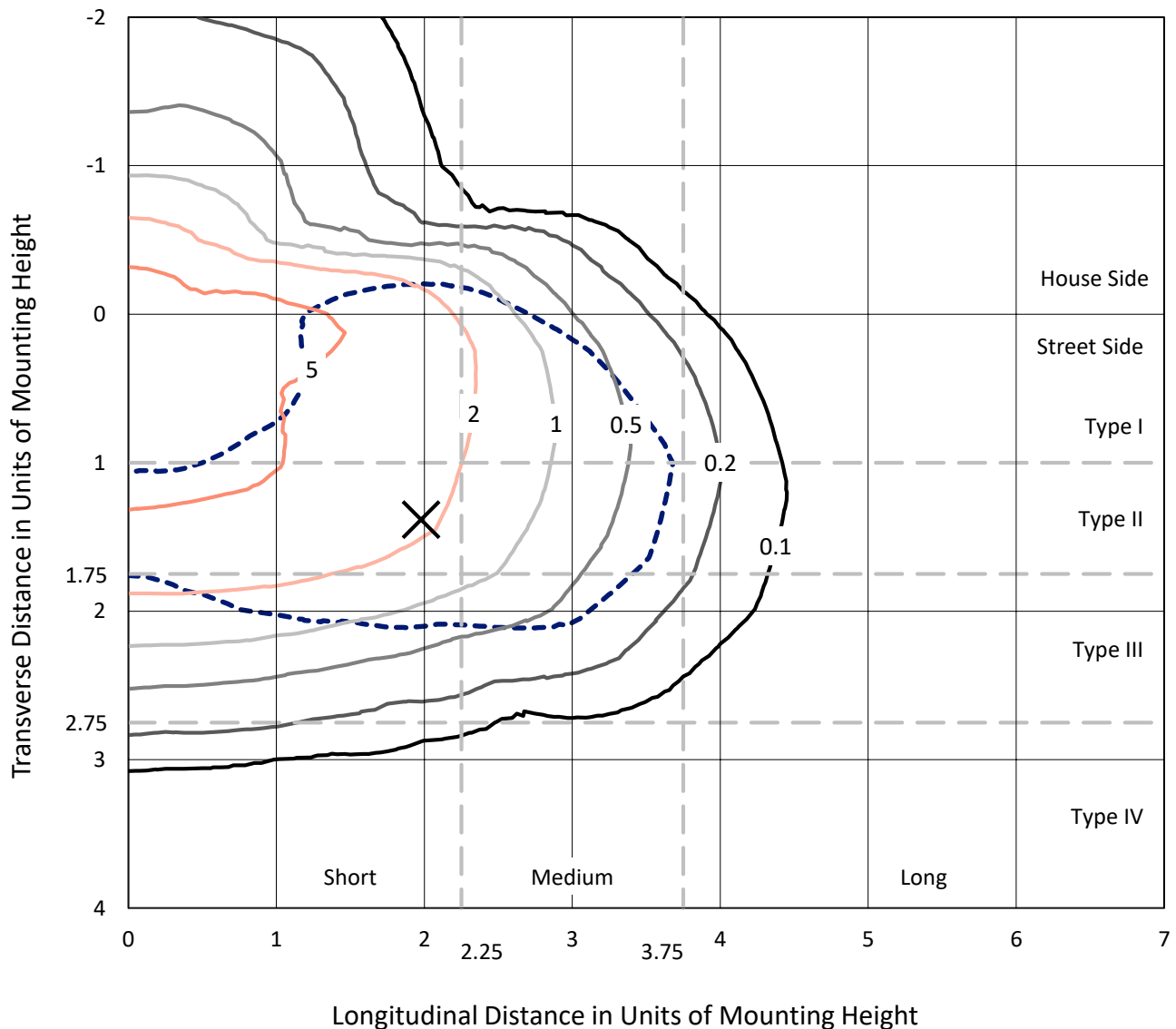


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

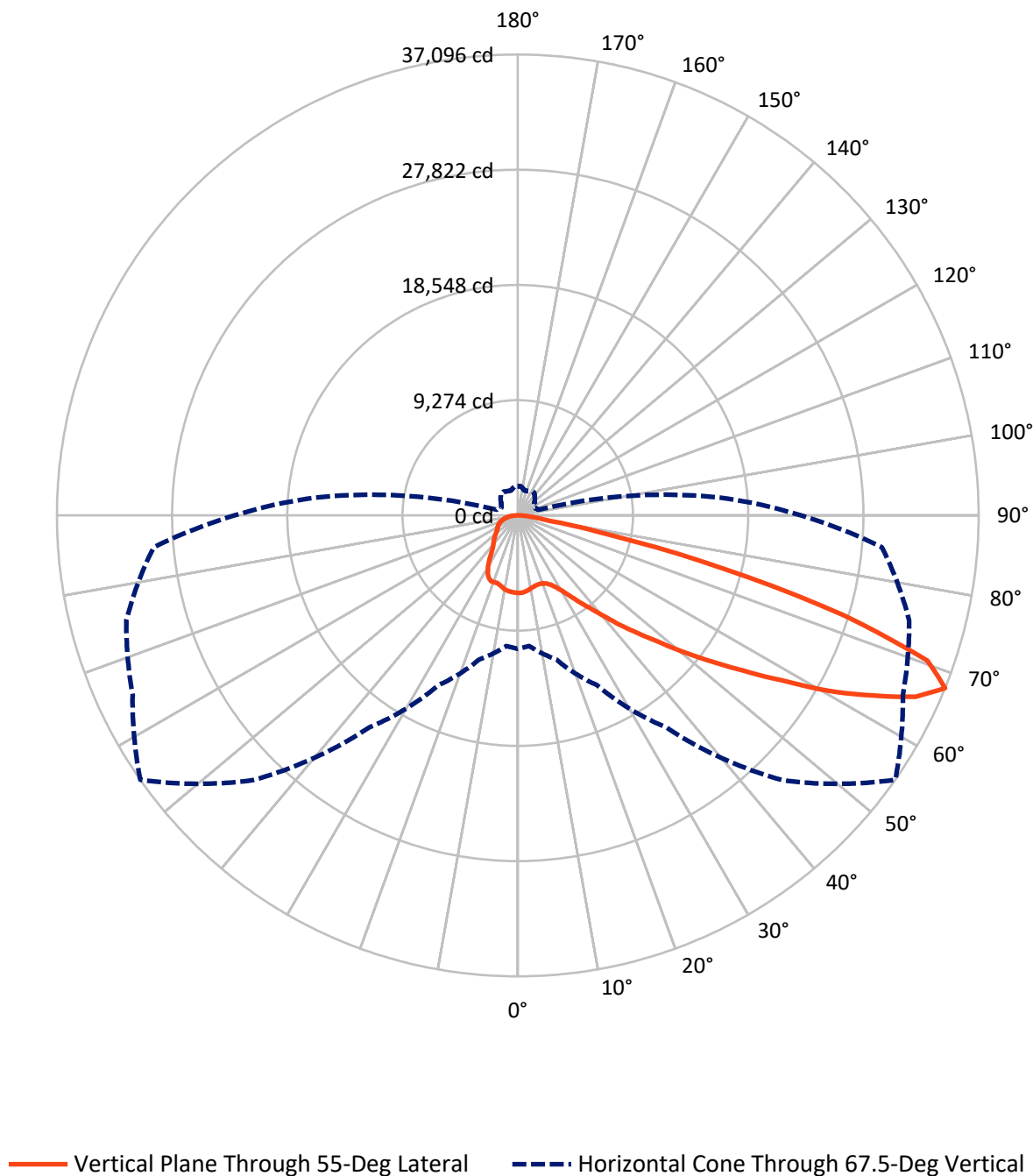


Based on 30 foot mounting height. Maximum calculated value = 7.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10935.9	0.0	10935.9
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	39688.3	0.0	39688.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	50624.2	0.0	50624.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	582.7	1.2
10°-20°	1650.2	3.3
20°-30°	2764.3	5.5
30°-40°	4545.7	9.0
40°-50°	7651.9	15.1
50°-60°	12043.5	23.8
60°-70°	14372.6	28.4
70°-80°	6171.9	12.2
80°-90°	841.5	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°	50624.2	100.0
0°-180°	50624.2	100.0

Coefficient of Utilization



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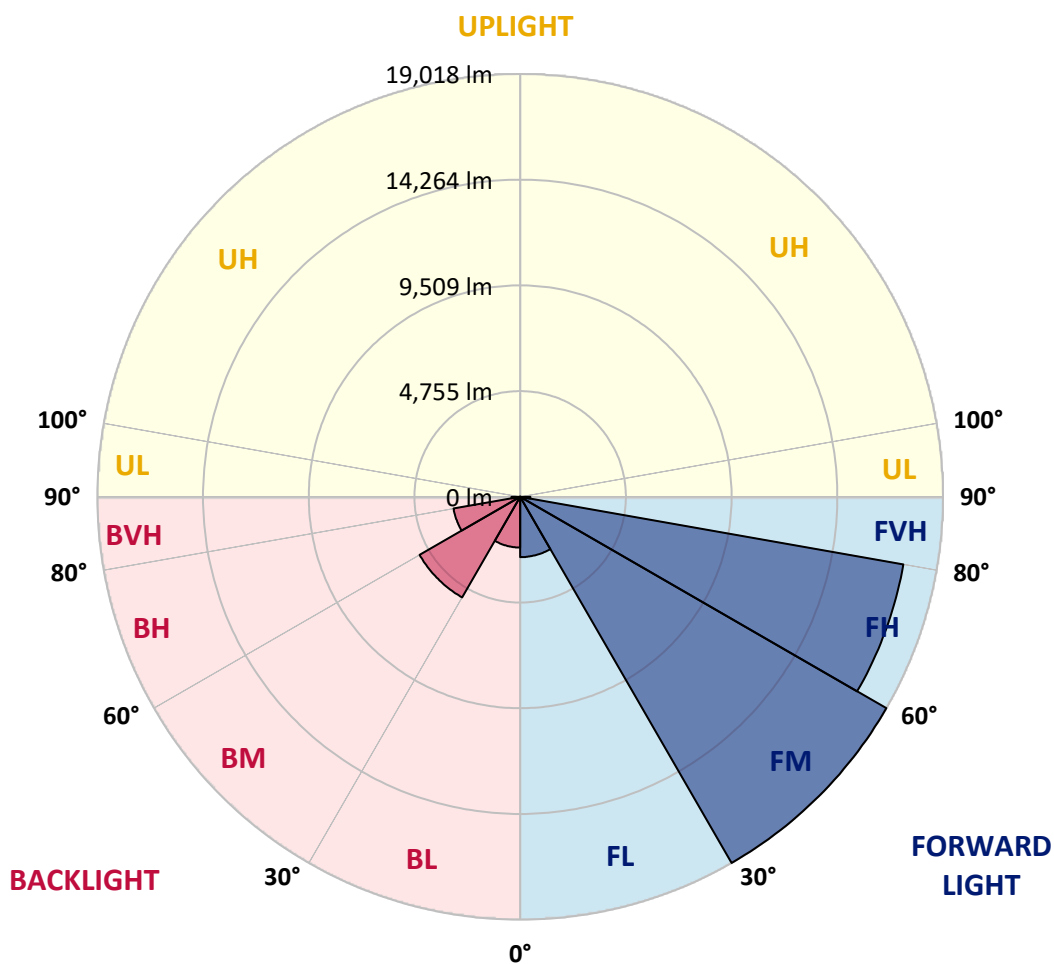
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2713.6	5.4			
FM	(30°-60°)	19018.2	37.6			
FH	(60°-80°)	17501.0	34.6			G5
FVH	(80°-90°)	455.5	0.9			G3/500
BL	(0°-30°)	2283.6	4.5	B3/2500		
BM	(30°-60°)	5222.9	10.3	B4/8500		
BH	(60°-80°)	3043.4	6.0	B4/5000		G4/5000
BVH	(80°-90°)	386.0	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°	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5
2.5°	6188.8	6191.1	6196.1	6215.6	6232.7	6227.9	6230.3	6220.4	6218.1	6203.4	6218.1
5°	6110.5	6117.9	6120.2	6152.1	6171.6	6176.5	6169.1	6157.0	6142.2	6127.6	6134.9
7.5°	5932.0	5951.6	5954.0	5998.0	6029.8	6071.3	6073.8	6076.2	6069.0	6059.1	6073.8
10°	5819.4	5824.4	5822.0	5853.8	5878.1	5924.7	5951.6	5998.0	6017.6	6022.5	6032.2
12.5°	5812.1	5807.2	5799.9	5799.9	5792.6	5812.1	5861.1	5927.1	5973.5	5988.2	6000.4
15°	5890.3	5888.0	5863.5	5826.8	5780.4	5765.7	5807.2	5880.7	5941.7	5973.5	5985.8
17.5°	6066.5	6051.8	6012.6	5929.5	5829.3	5790.2	5795.0	5856.2	5927.1	5968.7	5980.9
20°	6389.3	6389.3	6306.1	6149.5	5971.1	5878.1	5834.2	5870.8	5939.4	5995.6	6012.6
22.5°	6946.7	6951.6	6812.2	6555.4	6254.8	6056.7	5946.7	5939.4	6019.9	6083.5	6103.1
25°	7736.5	7717.0	7521.3	7154.6	6697.3	6369.7	6178.9	6134.9	6203.4	6274.3	6298.8
27.5°	8655.8	8584.9	8352.7	7910.2	7318.4	6839.1	6545.7	6474.8	6540.8	6621.5	6646.0
30°	9565.5	9492.1	9215.8	8731.7	8073.9	7467.6	7047.0	6932.1	7025.0	7139.9	7154.6
32.5°	10475.1	10475.1	10167.0	9602.1	8885.7	8218.3	7714.5	7577.5	7731.6	7871.0	7902.8
35°	11563.2	11568.1	11269.8	10590.1	9819.7	9113.1	8558.1	8457.9	8690.2	8787.9	8863.7
37.5°	12900.7	12927.5	12543.7	11722.1	10878.5	10135.2	9475.1	9338.1	9570.3	9836.9	10081.5
40°	14345.8	14380.0	13957.0	12944.7	12101.1	11323.5	10609.6	10362.5	10748.9	11257.5	11573.0
42.5°	15724.9	15900.9	15492.6	14450.9	13543.8	12739.3	12015.6	11656.1	12140.3	12908.0	13181.9
45°	17717.7	17844.9	17133.3	16189.5	15336.0	14436.3	13477.7	13098.8	13776.1	14744.3	14800.6
47.5°	19045.4	18950.0	18588.2	18001.3	17460.9	16619.9	15177.2	14761.5	15661.3	16800.8	16485.4
50°	19752.1	19781.4	19732.5	19766.7	19786.3	19258.1	17260.4	16690.8	17764.1	19140.8	18414.5
52.5°	20412.3	20216.7	20378.1	21180.0	22148.4	21952.7	19527.2	18933.0	20018.6	21737.5	20453.9
55°	20397.6	20099.4	20625.0	22040.8	24141.2	24366.1	22072.5	21387.9	22402.6	24522.5	22615.3
57.5°	19676.3	19690.9	20500.4	22353.7	25529.9	26635.2	25026.3	23999.4	24930.9	27344.4	24588.6
60°	18683.6	18818.0	19984.4	22302.3	26642.6	28496.0	28650.1	26813.8	27407.9	29909.2	26222.0
62.5°	17081.9	17223.7	18832.7	21769.4	26473.8	30288.3	31926.5	30007.1	29997.3	31464.5	26701.3
65°	14556.1	14514.5	16204.1	19776.5	25058.1	31613.6	35181.1	32767.7	31948.6	31488.8	25737.8
67.5°	10734.2	10548.4	11998.5	15062.3	20828.0	30129.4	37095.7	34205.5	32613.7	29417.8	22793.8
70°	5570.1	5384.3	6558.0	8795.3	13697.9	23515.3	34975.6	33462.2	31144.2	24659.5	17857.2
72.5°	2381.7	2349.8	2826.6	3858.5	6626.3	13563.3	27425.0	28963.0	26723.2	18373.0	12277.3
75°	1601.6	1591.8	1770.3	2102.8	2980.7	5504.1	17162.7	20559.0	19551.6	11392.0	6905.1
77.5°	1256.8	1244.6	1349.7	1511.2	1931.7	2171.3	7616.7	11037.5	10216.0	4958.8	3022.2
80°	983.0	973.2	1039.2	1127.2	1388.9	1369.3	2506.3	4391.5	3398.8	1899.9	1469.5
82.5°	775.0	775.0	829.0	831.4	985.4	934.0	1308.2	1934.1	1696.9	1107.7	899.9
85°	709.1	709.1	765.4	621.0	643.1	589.2	811.8	1146.7	1075.8	454.8	391.2
87.5°	356.9	347.2	643.1	550.1	349.6	313.0	396.1	555.0	596.7	251.9	195.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5	6242.5
2.5°	6213.1	6210.8	6215.6	6218.1	6237.6	6264.5	6276.7	6293.9	6303.6	6298.8
5°	6139.9	6144.7	6164.3	6178.9	6213.1	6257.2	6281.7	6301.2	6318.4	6311.1
7.5°	6078.6	6090.8	6120.2	6132.5	6152.1	6164.3	6161.7	6169.1	6183.8	6166.7
10°	6044.4	6059.1	6081.2	6064.0	6017.6	5951.6	5890.3	5858.6	5868.5	5856.2
12.5°	6010.3	6029.8	6012.6	5932.0	5802.4	5716.8	5670.3	5675.3	5697.3	5702.1
15°	5990.6	5998.0	5924.7	5773.0	5641.0	5628.8	5653.2	5648.3	5650.8	5650.8
17.5°	5990.6	5971.1	5834.2	5682.6	5626.3	5604.4	5528.5	5433.1	5391.6	5376.9
20°	6022.5	5971.1	5804.8	5704.5	5582.3	5394.0	5193.5	5017.5	4939.3	4917.2
22.5°	6117.9	6029.8	5888.0	5714.4	5367.2	5051.7	4733.8	4523.6	4381.8	4357.3
25°	6311.1	6213.1	6051.8	5584.8	5024.9	4574.9	4213.0	3978.2	3836.4	3816.9
27.5°	6648.4	6584.8	6139.9	5298.6	4570.0	4088.4	3753.4	3572.3	3467.3	3459.9
30°	7157.0	7125.3	6095.8	4875.7	4010.1	3616.4	3455.0	3349.9	3271.7	3269.1
32.5°	7968.9	7712.1	5951.6	4359.8	3499.0	3281.4	3215.4	3151.8	3090.7	3090.7
35°	9012.9	8186.5	5677.6	3807.1	3188.5	3095.6	3012.5	2912.2	2831.5	2826.6
37.5°	10240.4	8479.8	5186.2	3362.1	3041.8	2970.9	2848.6	2699.5	2557.6	2533.1
40°	11480.1	8567.9	4494.3	3088.2	2948.9	2846.2	2697.1	2520.9	2384.0	2376.7
42.5°	12617.0	8399.2	3760.7	2900.0	2855.9	2719.0	2562.5	2406.0	2298.5	2296.0
45°	13570.6	7961.5	3144.5	2721.4	2758.1	2604.0	2464.8	2337.6	2254.4	2237.3
47.5°	14468.1	7342.9	2711.7	2533.1	2660.4	2540.5	2423.2	2303.3	2222.7	2210.5
50°	15509.7	6675.3	2408.5	2349.8	2574.8	2518.5	2457.3	2332.6	2198.2	2183.5
52.5°	16771.4	6098.2	2171.3	2188.5	2508.7	2547.8	2545.4	2415.8	2181.2	2161.4
55°	18179.8	5457.6	1992.8	2056.4	2481.9	2601.7	2567.4	2494.1	2195.8	2166.4
57.5°	19566.2	4709.4	1868.2	1956.2	2442.7	2596.8	2462.2	2357.2	2230.0	2188.5
60°	20605.4	3704.4	1772.7	1868.2	2357.2	2516.1	2347.3	2208.0	2222.7	2190.8
62.5°	20673.9	2863.2	1657.8	1792.3	2227.6	2435.4	2271.6	2141.9	2254.4	2225.1
65°	19458.6	2164.0	1547.7	1701.8	2088.2	2384.0	2198.2	2105.3	2320.4	2288.7
67.5°	16382.7	1740.9	1454.9	1609.0	1948.7	2276.4	2132.2	2071.0	2379.1	2323.0
70°	11827.4	1484.2	1364.4	1496.5	1824.1	2154.1	2073.5	2010.0	2220.2	2132.2
72.5°	7281.7	1286.2	1261.7	1347.2	1728.7	2027.1	1985.5	1895.0	2000.1	1929.2
75°	3635.9	1115.0	1146.7	1200.5	1594.2	1882.7	1838.8	1748.2	1763.0	1748.2
77.5°	1740.9	953.7	1012.3	1054.0	1420.6	1718.9	1672.5	1579.6	1562.5	1564.9
80°	1102.8	797.1	853.4	882.7	1269.0	1528.2	1481.8	1388.9	1584.5	1469.5
82.5°	689.5	648.0	662.6	716.4	1105.2	1330.1	1269.0	1185.9	1428.0	1129.6
85°	381.5	452.4	471.9	518.3	850.9	1112.6	1051.4	946.3	848.5	833.7
87.5°	227.4	269.0	276.3	310.6	572.2	804.4	711.5	674.9	560.0	557.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)