

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: P269588

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269588
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-T3-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45476 lumens
Efficiency: N/A
Efficacy: 89.0 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

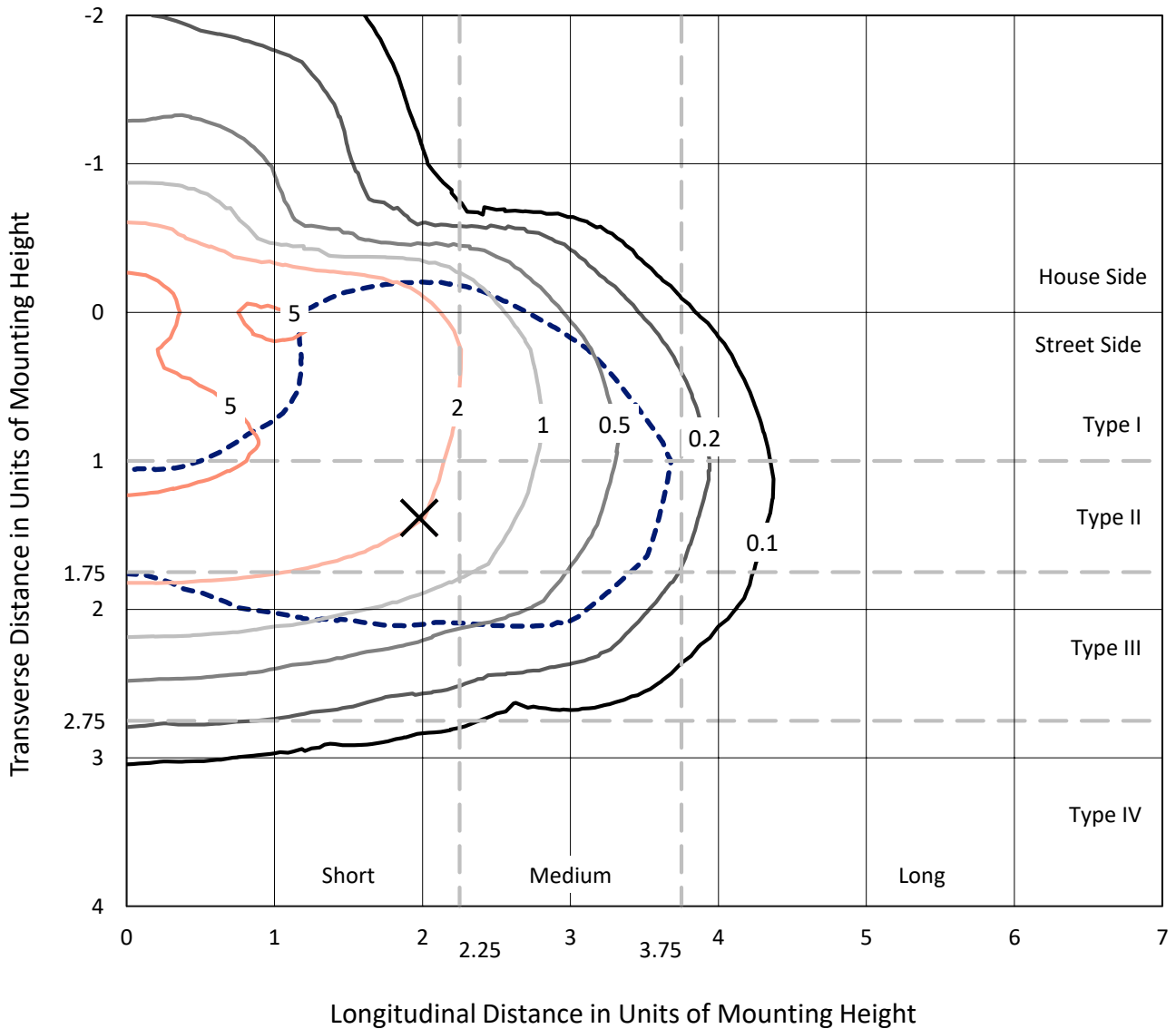


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

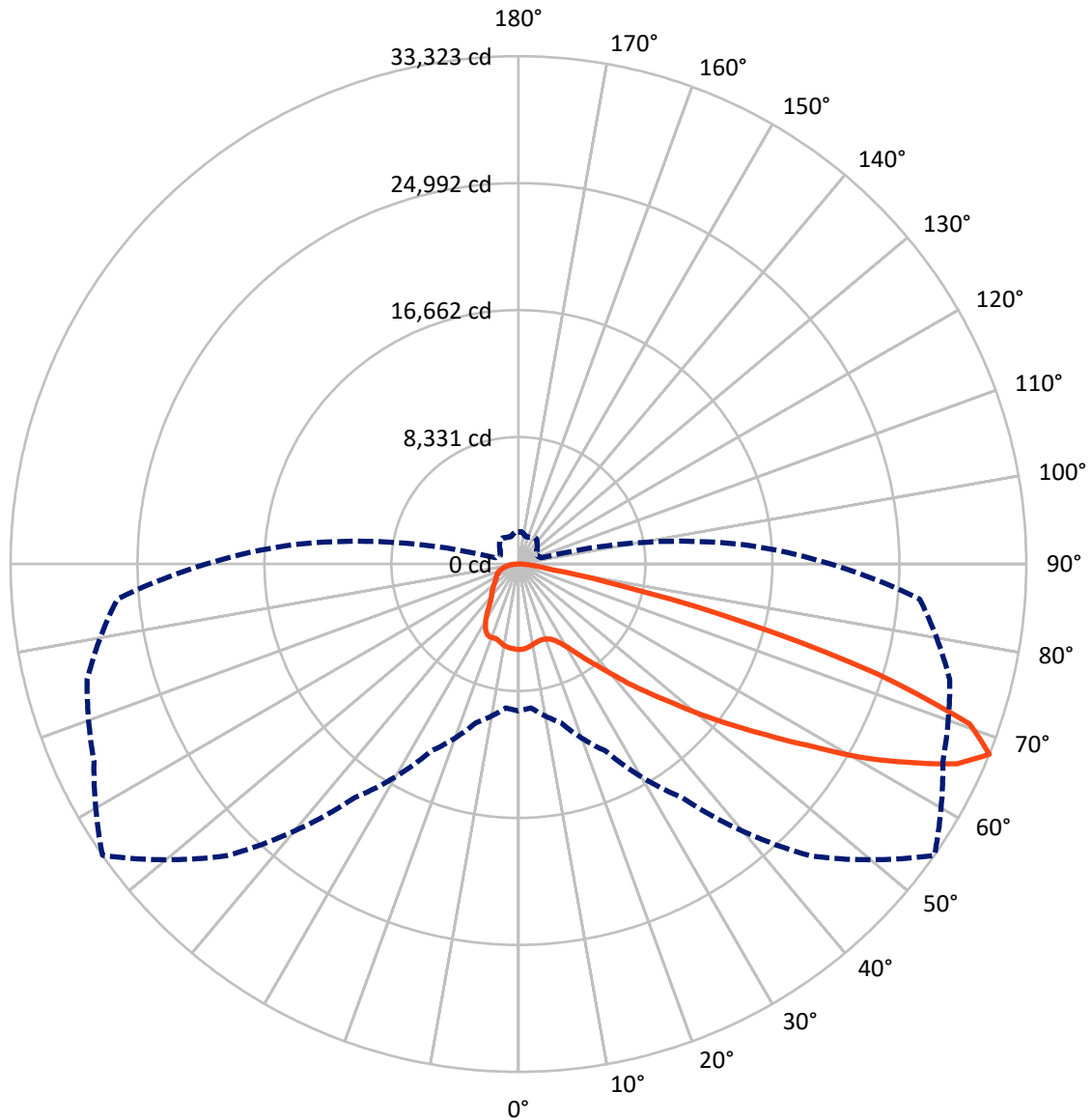


Based on 30 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - Full Cutoff

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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
House Side	Lumens	9823.8	0.0	9823.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	35652.2	0.0	35652.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	45476.0	0.0	45476.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.4	1.2
10°-20°	1482.4	3.3
20°-30°	2483.2	5.5
30°-40°	4083.5	9.0
40°-50°	6873.7	15.1
50°-60°	10818.7	23.8
60°-70°	12911.0	28.4
70°-80°	5544.2	12.2
80°-90°	755.9	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°	45476.0	100.0
0°-180°	45476.0	100.0



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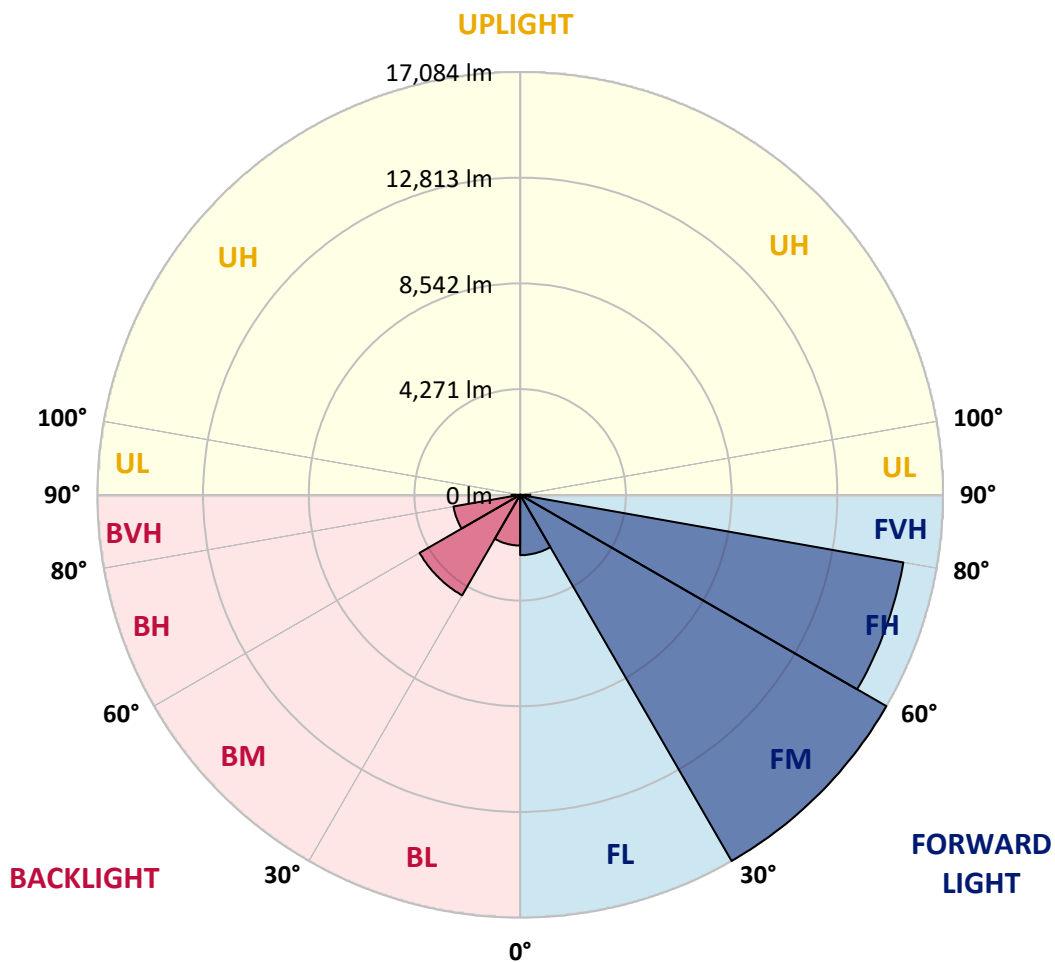
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2437.6	5.4			
FM (30°-60°)	17084.1	37.6			
FH (60°-80°)	15721.3	34.6			G5
FVH (80°-90°)	409.2	0.9			G3/500
BL (0°-30°)	2051.4	4.5	B3/2500		
BM (30°-60°)	4691.7	10.3	B3/5000		
BH (60°-80°)	2733.9	6.0	B4/5000		G4/5000
BVH (80°-90°)	346.7	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°	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7
2.5°	5559.4	5561.5	5566.0	5583.5	5598.9	5594.6	5596.7	5587.8	5585.8	5572.5	5585.8
5°	5489.1	5495.7	5497.8	5526.5	5544.0	5548.4	5541.7	5530.9	5517.6	5504.5	5511.0
7.5°	5328.7	5346.4	5348.5	5388.0	5416.6	5453.9	5456.1	5458.3	5451.8	5442.9	5456.1
10°	5227.6	5232.1	5229.9	5258.5	5280.3	5322.2	5346.4	5388.0	5405.6	5410.0	5418.8
12.5°	5221.0	5216.6	5210.1	5210.1	5203.5	5221.0	5265.1	5324.3	5366.0	5379.2	5390.2
15°	5291.3	5289.2	5267.2	5234.2	5192.6	5179.4	5216.6	5282.7	5337.5	5366.0	5377.1
17.5°	5449.6	5436.4	5401.1	5326.5	5236.5	5201.4	5205.7	5260.7	5324.3	5361.7	5372.7
20°	5739.5	5739.5	5664.8	5524.1	5363.9	5280.3	5240.9	5273.8	5335.4	5385.9	5401.1
22.5°	6240.3	6244.7	6119.4	5888.7	5618.7	5440.8	5342.0	5335.4	5407.7	5464.8	5482.4
25°	6949.7	6932.2	6756.4	6427.0	6016.2	5721.9	5550.5	5511.0	5572.5	5636.2	5658.2
27.5°	7775.5	7711.9	7503.3	7105.8	6574.2	6143.6	5880.0	5816.3	5875.6	5948.1	5970.1
30°	8592.7	8526.8	8278.6	7843.7	7252.8	6708.2	6330.4	6227.1	6310.6	6413.8	6427.0
32.5°	9409.8	9409.8	9133.1	8625.6	7982.1	7382.5	6930.0	6806.9	6945.3	7070.6	7099.1
35°	10387.3	10391.7	10123.7	9513.1	8821.1	8186.3	7687.8	7597.8	7806.5	7894.2	7962.3
37.5°	11588.8	11612.8	11268.1	10530.0	9772.2	9104.5	8511.5	8388.5	8597.0	8836.5	9056.3
40°	12886.9	12917.6	12537.6	11628.3	10870.5	10172.0	9530.7	9308.7	9655.8	10112.7	10396.1
42.5°	14125.8	14283.9	13917.1	12981.3	12166.5	11443.8	10793.7	10470.7	10905.7	11595.3	11841.4
45°	15915.9	16030.2	15390.9	14543.1	13776.4	12968.2	12107.1	11766.7	12375.1	13244.9	13295.5
47.5°	17108.6	17022.9	16697.9	16170.7	15685.2	14929.7	13633.8	13260.3	14068.6	15092.2	14808.9
50°	17743.4	17769.7	17725.8	17756.5	17774.1	17299.6	15505.1	14993.4	15957.6	17194.3	16541.8
52.5°	18336.5	18160.8	18305.8	19026.1	19896.0	19720.2	17541.4	17007.6	17982.8	19526.9	18373.8
55°	18323.3	18055.4	18527.5	19799.4	21686.2	21888.2	19827.8	19212.9	20124.4	22028.7	20315.4
57.5°	17675.3	17688.4	18415.6	20080.4	22933.6	23926.5	22481.3	21558.8	22395.6	24563.6	22088.1
60°	16783.6	16904.3	17952.1	20034.3	23933.2	25598.1	25736.5	24087.0	24620.7	26867.6	23555.4
62.5°	15344.8	15472.1	16917.5	19555.6	23781.5	27208.1	28679.7	26955.5	26946.7	28264.7	23985.9
65°	13075.8	13038.4	14556.2	17765.3	22509.8	28398.7	31603.4	29435.4	28699.6	28286.5	23120.4
67.5°	9642.6	9475.7	10778.3	13530.5	18709.9	27065.4	33323.3	30727.0	29297.1	26426.2	20475.8
70°	5003.6	4836.7	5891.1	7900.9	12304.9	21123.9	31418.8	30059.3	27977.0	22151.8	16041.2
72.5°	2139.5	2110.8	2539.1	3466.1	5952.4	12184.0	24636.0	26017.6	24005.6	16504.6	11028.8
75°	1438.7	1429.9	1590.3	1889.0	2677.6	4944.4	15417.3	18468.3	17563.3	10233.5	6202.9
77.5°	1129.0	1118.0	1212.4	1357.5	1735.3	1950.5	6842.1	9915.0	9177.1	4454.5	2714.9
80°	883.0	874.2	933.5	1012.6	1247.7	1230.0	2251.4	3944.9	3053.2	1706.7	1320.1
82.5°	696.2	696.2	744.7	746.9	885.2	839.0	1175.2	1737.4	1524.3	995.1	808.4
85°	637.0	637.0	687.6	557.8	577.7	529.3	729.2	1030.1	966.4	408.5	351.4
87.5°	320.6	311.9	577.7	494.2	314.0	281.2	355.8	498.6	536.0	226.3	175.7
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°	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7	5607.7
2.5°	5581.3	5579.2	5583.5	5585.8	5603.3	5627.4	5638.4	5653.8	5662.6	5658.2
5°	5515.5	5519.8	5537.4	5550.5	5581.3	5620.9	5642.9	5660.4	5675.9	5669.3
7.5°	5460.4	5471.4	5497.8	5508.9	5526.5	5537.4	5535.1	5541.7	5554.9	5539.6
10°	5429.7	5442.9	5462.8	5447.3	5405.6	5346.4	5291.3	5262.8	5271.7	5260.7
12.5°	5399.1	5416.6	5401.1	5328.7	5212.3	5135.4	5093.7	5098.2	5117.9	5122.2
15°	5381.4	5388.0	5322.2	5185.9	5067.3	5056.4	5078.3	5073.9	5076.1	5076.1
17.5°	5381.4	5363.9	5240.9	5104.7	5054.1	5034.5	4966.3	4880.6	4843.3	4830.1
20°	5410.0	5363.9	5214.5	5124.4	5014.6	4845.5	4665.3	4507.2	4437.0	4417.1
22.5°	5495.7	5416.6	5289.2	5133.3	4821.4	4538.0	4252.4	4063.6	3936.2	3914.2
25°	5669.3	5581.3	5436.4	5016.9	4513.9	4109.7	3784.6	3573.6	3446.3	3428.7
27.5°	5972.3	5915.2	5515.5	4759.8	4105.3	3672.6	3371.7	3209.0	3114.7	3108.0
30°	6429.2	6400.7	5475.9	4379.9	3602.3	3248.6	3103.6	3009.2	2939.0	2936.6
32.5°	7158.5	6927.8	5346.4	3916.4	3143.2	2947.7	2888.4	2831.3	2776.4	2776.4
35°	8096.3	7354.0	5100.2	3419.9	2864.2	2780.8	2706.1	2616.0	2543.6	2539.1
37.5°	9199.0	7617.4	4658.8	3020.2	2732.5	2668.8	2558.9	2425.0	2297.5	2275.5
40°	10312.6	7696.6	4037.3	2774.1	2649.0	2556.8	2422.8	2264.5	2141.6	2135.0
42.5°	11333.9	7545.0	3378.3	2605.1	2565.5	2442.5	2301.9	2161.3	2064.8	2062.5
45°	12190.5	7151.9	2824.7	2444.6	2477.6	2339.2	2214.1	2099.9	2025.1	2009.8
47.5°	12996.8	6596.2	2435.9	2275.5	2389.9	2282.1	2176.8	2069.1	1996.7	1985.7
50°	13932.4	5996.5	2163.6	2110.8	2313.0	2262.4	2207.4	2095.4	1974.7	1961.4
52.5°	15065.8	5478.0	1950.5	1965.9	2253.6	2288.7	2286.5	2170.1	1959.4	1941.6
55°	16331.0	4902.6	1790.1	1847.3	2229.5	2337.1	2306.3	2240.5	1972.5	1946.1
57.5°	17576.4	4230.5	1678.2	1757.3	2194.3	2332.7	2211.8	2117.5	2003.2	1965.9
60°	18509.9	3327.7	1592.4	1678.2	2117.5	2260.2	2108.6	1983.5	1996.7	1968.0
62.5°	18571.5	2572.0	1489.2	1610.0	2001.1	2187.7	2040.6	1924.1	2025.1	1998.8
65°	17479.8	1943.9	1390.3	1528.7	1875.8	2141.6	1974.7	1891.2	2084.4	2056.0
67.5°	14716.7	1563.9	1306.9	1445.4	1750.5	2044.9	1915.4	1860.4	2137.2	2086.8
70°	10624.6	1333.3	1225.6	1344.3	1638.6	1935.0	1862.6	1805.6	1994.4	1915.4
72.5°	6541.2	1155.4	1133.4	1210.2	1552.9	1821.0	1783.6	1702.3	1796.7	1733.0
75°	3266.1	1001.6	1030.1	1078.4	1432.1	1691.2	1651.8	1570.4	1583.7	1570.4
77.5°	1563.9	856.7	909.4	946.8	1276.1	1544.1	1502.4	1419.0	1403.6	1405.8
80°	990.7	716.0	766.6	792.9	1139.9	1372.8	1331.1	1247.7	1423.4	1320.1
82.5°	619.4	582.1	595.2	643.5	992.8	1194.8	1139.9	1065.3	1282.8	1014.7
85°	342.7	406.4	423.9	465.6	764.4	999.5	944.5	850.1	762.2	748.9
87.5°	204.3	241.6	248.2	279.0	514.0	722.6	639.1	606.3	503.1	500.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)