

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: P191545

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191545  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
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-T4FT-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 47530.4 lumens  
Efficiency: N/A  
Efficacy: 106.1 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

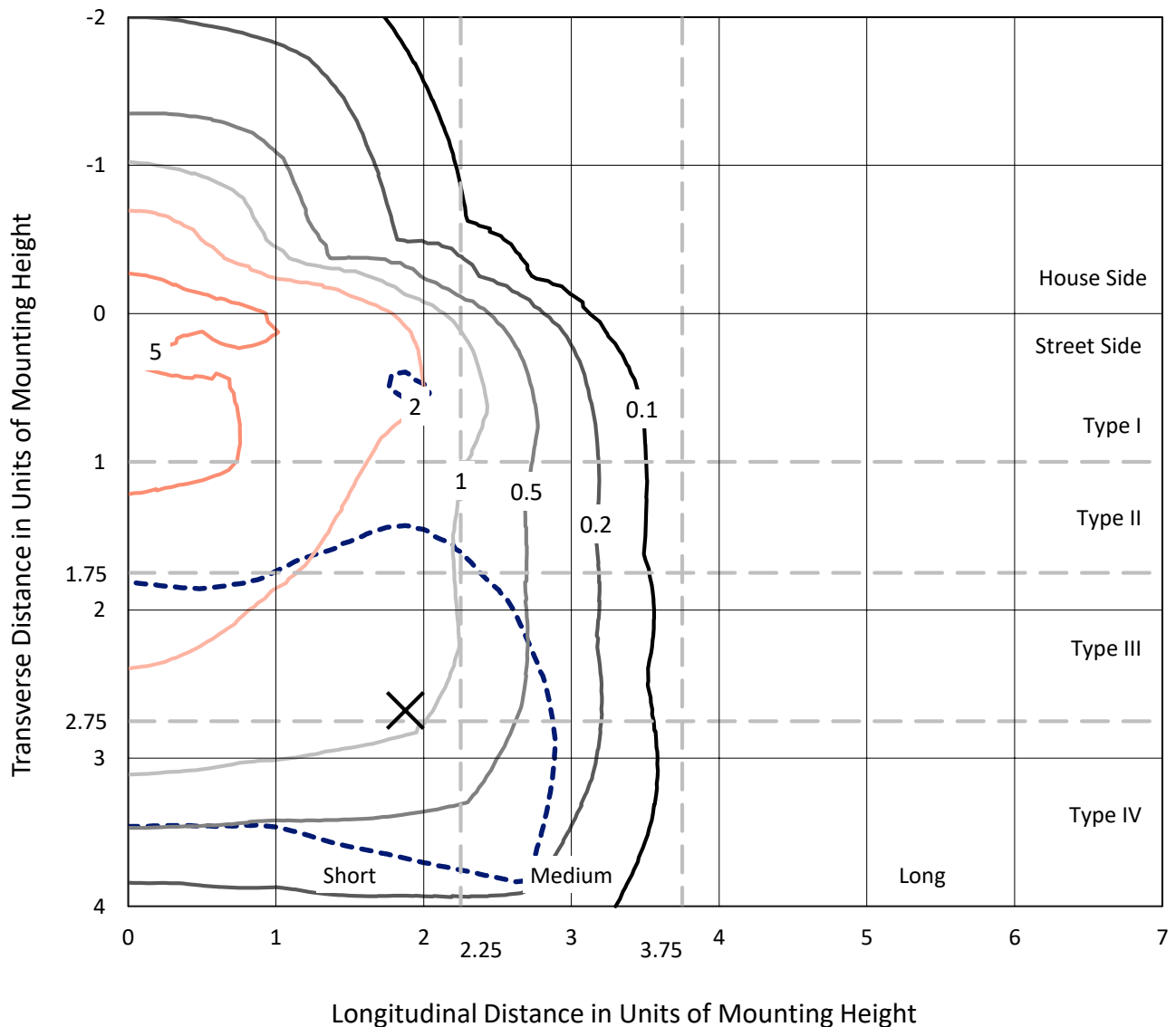
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

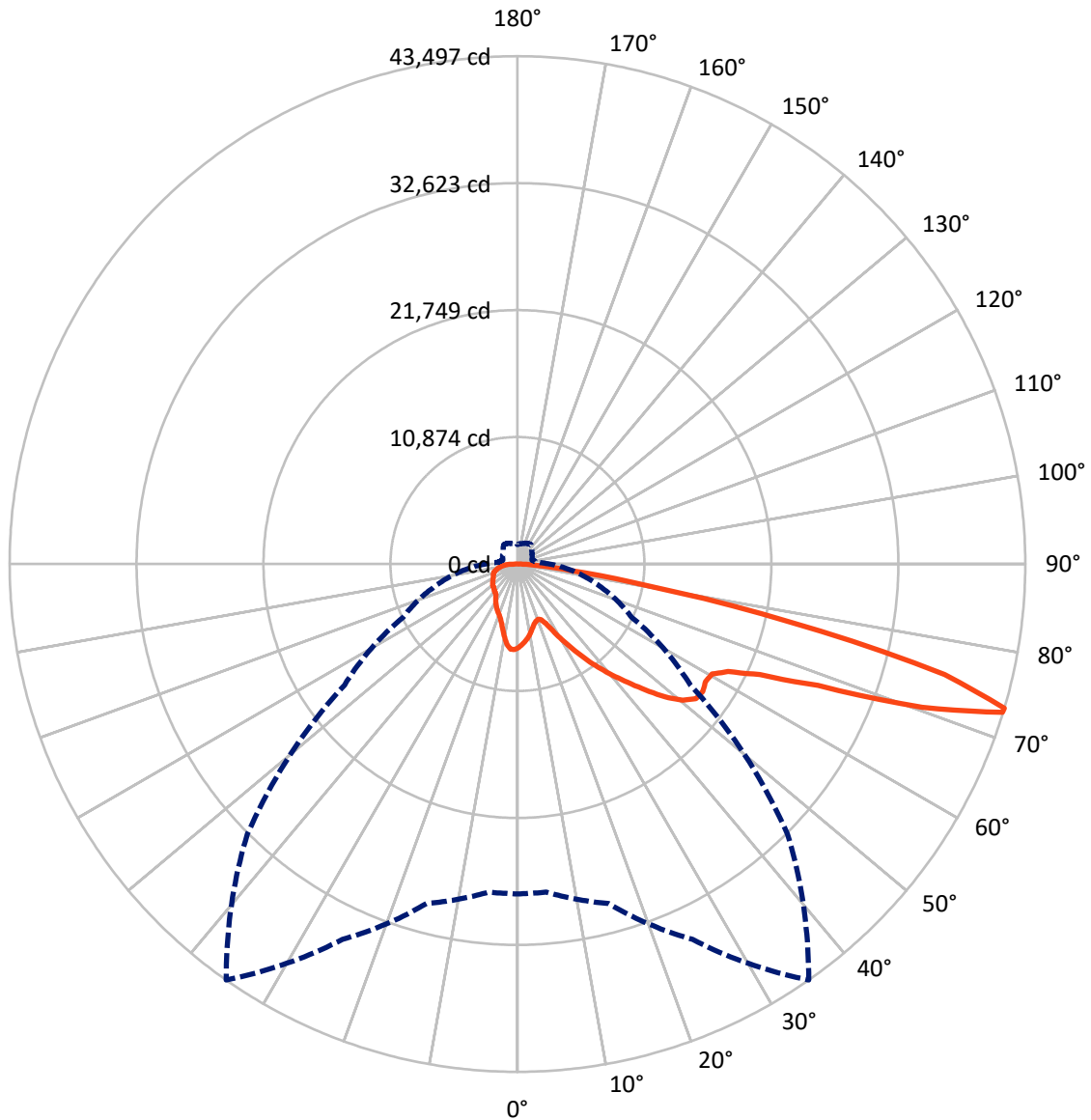
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	9065.4	0.0	9065.4
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	38465.0	0.0	38465.0
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	47530.4	0.0	47530.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	649.4	1.4
10°-20°	1620.9	3.4
20°-30°	2620.4	5.5
30°-40°	4394.1	9.2
40°-50°	6773.2	14.3
50°-60°	9087.0	19.1
60°-70°	12105.8	25.5
70°-80°	9233.0	19.4
80°-90°	1046.5	2.2
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°	47530.4	100.0
0°-180°	47530.4	100.0

**Coefficient of Utilization**



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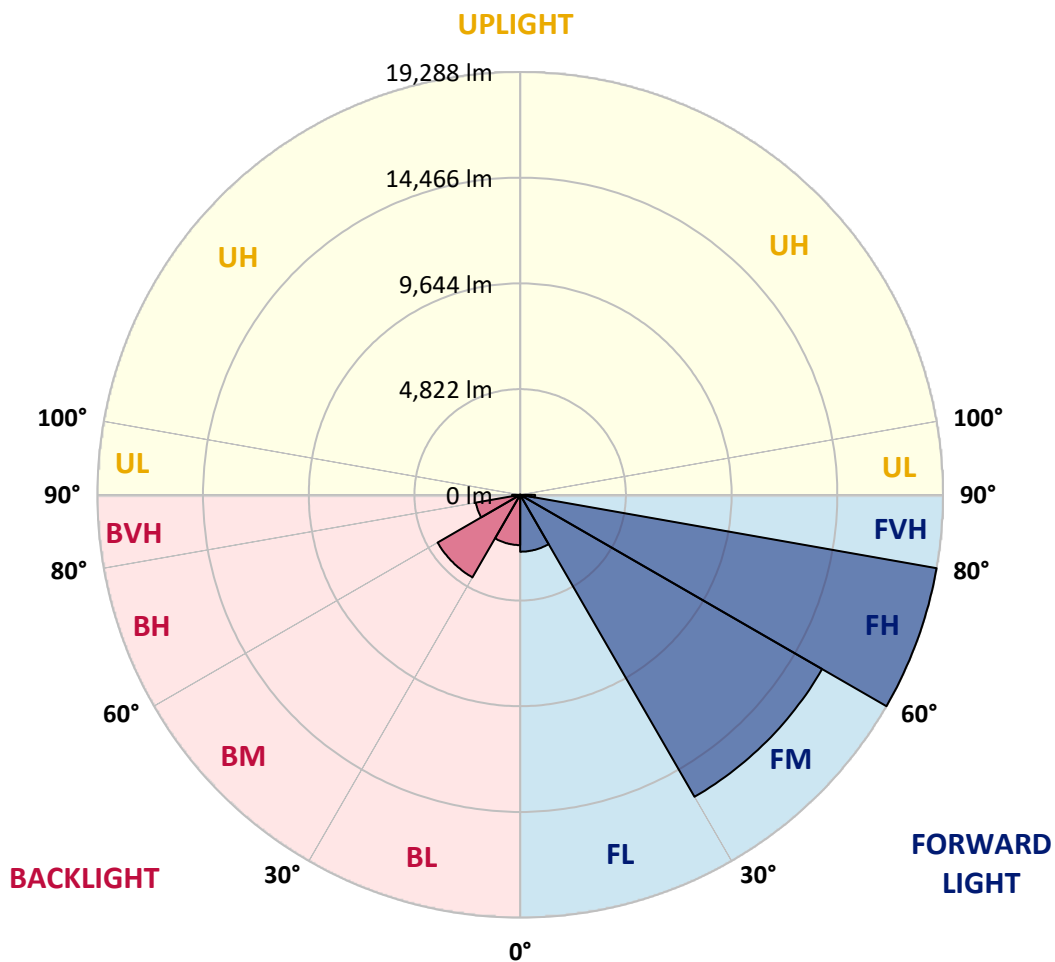
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2596.8	5.5			
FM	(30°-60°)	15904.0	33.5			
FH	(60°-80°)	19287.8	40.6			G5
FVH	(80°-90°)	676.5	1.4			G4/750
BL	(0°-30°)	2294.0	4.8	B3/2500		
BM	(30°-60°)	4350.4	9.2	B3/5000		
BH	(60°-80°)	2051.0	4.3	B3/2500		G3/2500
BVH	(80°-90°)	370.1	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9
2.5°	6890.8	6904.5	6888.6	6909.0	6943.3	6979.8	7004.9	7041.4	7082.5	7139.6	7153.3
5°	6566.6	6587.2	6587.2	6623.7	6689.9	6749.2	6804.1	6863.4	6950.1	7048.2	7087.1
7.5°	6210.6	6222.0	6242.6	6297.4	6393.2	6477.6	6555.3	6651.1	6769.8	6899.9	6968.3
10°	5781.5	5797.5	5829.4	5907.0	6037.1	6153.6	6265.4	6397.7	6548.4	6710.5	6797.2
12.5°	5477.9	5473.4	5487.1	5544.1	5658.2	5799.7	5961.9	6130.7	6315.6	6505.0	6610.0
15°	5375.2	5350.1	5297.7	5284.0	5345.5	5487.1	5674.2	5882.0	6103.3	6331.6	6461.7
17.5°	5439.1	5395.8	5251.9	5147.0	5137.9	5245.1	5443.7	5676.6	5932.2	6210.6	6372.7
20°	5840.8	5738.1	5384.4	5140.1	5055.6	5108.2	5281.6	5528.1	5829.4	6199.2	6406.9
22.5°	6801.8	6651.1	5900.2	5446.0	5160.7	5096.8	5226.9	5489.4	5840.8	6340.7	6605.5
25°	8200.9	7986.4	6785.7	6208.3	5619.5	5279.3	5309.0	5578.4	6002.9	6669.4	6988.9
27.5°	9305.7	9166.5	7943.0	7283.4	6454.8	5772.4	5576.1	5802.1	6333.9	7208.0	7534.4
30°	9963.0	9878.5	9180.1	8502.3	7520.7	6557.5	6087.4	6222.0	6852.0	7954.5	8223.7
32.5°	10725.3	10675.1	10332.7	9709.6	8671.1	7589.3	6897.7	6849.7	7545.9	8851.4	8974.7
35°	11515.1	11499.1	11298.3	10850.8	9905.9	8949.6	7972.7	7648.6	8301.3	9782.7	9705.0
37.5°	12250.0	12222.6	12106.2	11846.1	11197.8	10410.4	9068.3	8468.0	9116.2	10672.9	10328.2
40°	13603.5	13389.0	12989.5	12793.2	12503.4	11640.6	9937.9	9232.6	9960.7	11521.9	10866.8
42.5°	15253.7	14904.6	14160.5	13891.2	13850.0	12610.6	10531.3	9974.4	10812.1	12364.2	11396.4
45°	16552.5	16223.8	15582.4	15242.4	15393.0	13489.4	11127.0	10766.5	11688.5	13247.5	11941.9
47.5°	17938.0	17422.1	16573.0	16675.7	17004.4	14320.2	11734.2	11617.8	12649.5	14235.8	12619.8
50°	17988.2	17593.3	17221.3	17835.2	18346.5	15084.8	12494.2	12510.3	13825.0	15479.7	13521.4
52.5°	16945.1	16860.6	17451.7	18417.3	19154.5	15689.7	13359.3	13432.4	15329.1	16908.6	14512.0
55°	16579.9	16484.0	17166.4	18214.2	19264.1	16189.6	14297.4	14429.7	17148.2	18415.0	15477.5
57.5°	17470.1	17257.8	17303.4	18118.3	18997.0	16737.4	15319.9	15587.0	19124.9	19732.0	16098.3
60°	19958.0	19503.7	18640.9	18620.4	19140.8	17559.1	16502.2	16828.7	21179.1	20361.9	15856.4
62.5°	23447.9	22993.6	21377.6	20325.4	20247.8	18914.9	17953.9	18040.7	22366.0	19508.3	14379.6
65°	27225.3	26819.0	25013.6	23527.8	22811.0	21160.8	19640.7	18581.6	21977.9	17159.6	11795.9
67.5°	31810.8	31374.8	29822.8	28451.0	27761.8	24785.4	20825.2	18063.5	19515.1	13293.1	8479.3
70°	35017.7	34572.6	33960.9	35072.5	36759.2	30014.5	20978.2	15956.8	14575.8	8835.4	5103.6
72.5°	30833.9	30626.2	31742.4	36423.7	43449.1	33187.2	18962.7	11617.8	8465.7	4690.4	2953.6
73°	28250.1	28204.5	30108.1	35476.4	43497.1	32698.7	18079.4	10798.4	7260.5	4149.5	2700.2
75°	12756.7	13124.3	17296.6	27097.6	37790.9	26944.6	12724.8	6194.6	4101.6	2866.8	2038.2
77.5°	3065.4	3193.1	5411.7	12868.6	23865.5	16057.2	5765.6	3063.1	2622.5	2024.5	1488.2
80°	1305.6	1349.0	2083.9	4754.4	11236.6	6466.3	2656.8	2051.9	1814.6	1412.9	1043.1
82.5°	725.8	771.5	1182.3	2156.9	4535.3	2204.9	1620.6	1428.9	1193.8	851.4	677.9
85°	410.8	436.0	691.6	1205.1	1921.8	885.6	970.1	949.5	673.3	438.2	333.3
87.5°	194.1	210.0	333.3	559.2	753.2	347.0	493.1	543.2	422.3	267.1	173.5
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°	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9	7173.9
2.5°	7169.2	7210.4	7258.2	7283.4	7306.2	7333.5	7360.9	7360.9	7365.6	7367.8
5°	7119.0	7203.5	7278.8	7310.7	7317.6	7317.6	7310.7	7274.2	7242.3	7256.0
7.5°	7014.1	7137.3	7201.2	7189.8	7103.1	7002.6	6918.2	6815.5	6762.9	6753.8
10°	6863.4	7004.9	7016.3	6902.2	6687.6	6473.1	6295.0	6121.5	6039.4	6018.8
12.5°	6696.7	6826.9	6753.8	6518.8	6174.1	5861.4	5635.4	5459.7	5382.1	5361.5
15°	6562.1	6651.1	6466.3	6096.5	5662.9	5331.8	5144.7	5014.6	4959.8	4943.8
17.5°	6491.3	6509.6	6171.8	5672.0	5210.9	4934.7	4818.3	4756.7	4736.2	4724.7
20°	6525.6	6397.7	5891.1	5277.1	4841.1	4647.2	4619.7	4603.8	4599.2	4592.3
22.5°	6696.7	6363.6	5633.2	4902.8	4517.0	4432.5	4455.4	4453.1	4448.5	4444.0
25°	7002.6	6393.2	5382.1	4546.7	4245.3	4227.1	4268.3	4268.3	4250.0	4250.0
27.5°	7406.6	6454.8	5101.4	4208.8	3998.9	4001.2	4033.1	4024.0	4003.4	3989.7
30°	7899.6	6493.6	4772.7	3905.3	3768.3	3759.2	3768.3	3729.6	3667.9	3663.4
32.5°	8404.1	6445.7	4391.5	3636.0	3524.2	3503.6	3496.8	3441.9	3371.2	3350.7
35°	8860.6	6270.0	4003.4	3421.5	3291.3	3245.7	3277.6	3259.3	3195.5	3179.4
37.5°	9193.8	5943.5	3654.3	3232.0	3124.7	3113.2	3133.8	3140.7	3065.4	3049.4
40°	9417.5	5500.7	3355.3	3072.2	3092.8	3049.4	2980.9	2933.0	2910.2	2903.3
42.5°	9597.8	5039.7	3104.1	2996.8	3099.6	2974.0	2825.7	2748.1	2789.2	2807.5
45°	9805.5	4590.1	2894.1	2903.3	3065.4	2887.3	2718.4	2643.1	2659.1	2663.7
47.5°	10090.8	4042.3	2668.2	2752.7	2951.2	2827.9	2652.2	2545.0	2469.6	2435.4
50°	10485.7	3394.0	2433.1	2583.8	2839.4	2784.6	2549.5	2435.4	2296.2	2264.2
52.5°	10759.6	2789.2	2239.1	2442.3	2739.0	2697.9	2467.4	2319.0	2173.0	2145.5
55°	10611.2	2316.7	2070.2	2284.8	2606.6	2590.6	2398.9	2200.3	2086.2	2063.4
57.5°	9869.4	2017.7	1940.1	2136.4	2444.5	2499.3	2307.6	2099.9	2017.7	2001.7
60°	8454.3	1830.6	1857.9	2036.0	2312.2	2408.0	2216.3	2045.1	1990.4	1978.9
62.5°	6559.9	1705.1	1796.3	1962.9	2209.5	2344.1	2166.1	2038.2	2017.7	2004.0
65°	4699.6	1604.6	1730.1	1889.9	2115.9	2284.8	2147.8	2029.1	2033.7	2022.3
67.5°	3193.1	1515.6	1650.2	1807.8	2024.5	2232.3	2122.7	1997.2	2054.2	2040.5
70°	2234.5	1428.9	1556.6	1702.7	1910.5	2159.2	2077.0	1949.2	1944.6	1889.9
72.5°	1743.8	1314.7	1428.9	1556.6	1764.4	2056.5	1985.8	1841.9	1766.6	1709.6
73°	1663.9	1287.3	1396.8	1524.7	1732.4	2031.4	1960.7	1812.3	1727.9	1675.3
75°	1376.4	1168.6	1269.1	1383.1	1595.5	1912.7	1837.4	1677.6	1570.3	1538.4
77.5°	1081.9	999.7	1095.6	1198.3	1406.0	1739.2	1654.8	1501.9	1442.6	1415.2
80°	801.2	828.5	913.0	1004.3	1218.8	1554.4	1479.1	1326.2	1590.9	1524.7
82.5°	563.7	627.7	705.3	787.5	1022.5	1374.0	1282.8	1125.2	1164.0	967.8
85°	333.3	410.8	483.9	554.6	737.2	1139.0	1059.1	897.0	735.0	700.7
87.5°	194.1	228.2	248.8	321.8	506.7	858.3	746.3	664.2	381.2	257.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)