

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: P192185

Luminaire Tested: **GLEON-AF-07-LED-E1-T2-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192185  
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-07-LED-E1-T2-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45324 lumens  
Efficiency: N/A  
Efficacy: 101.2 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): 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

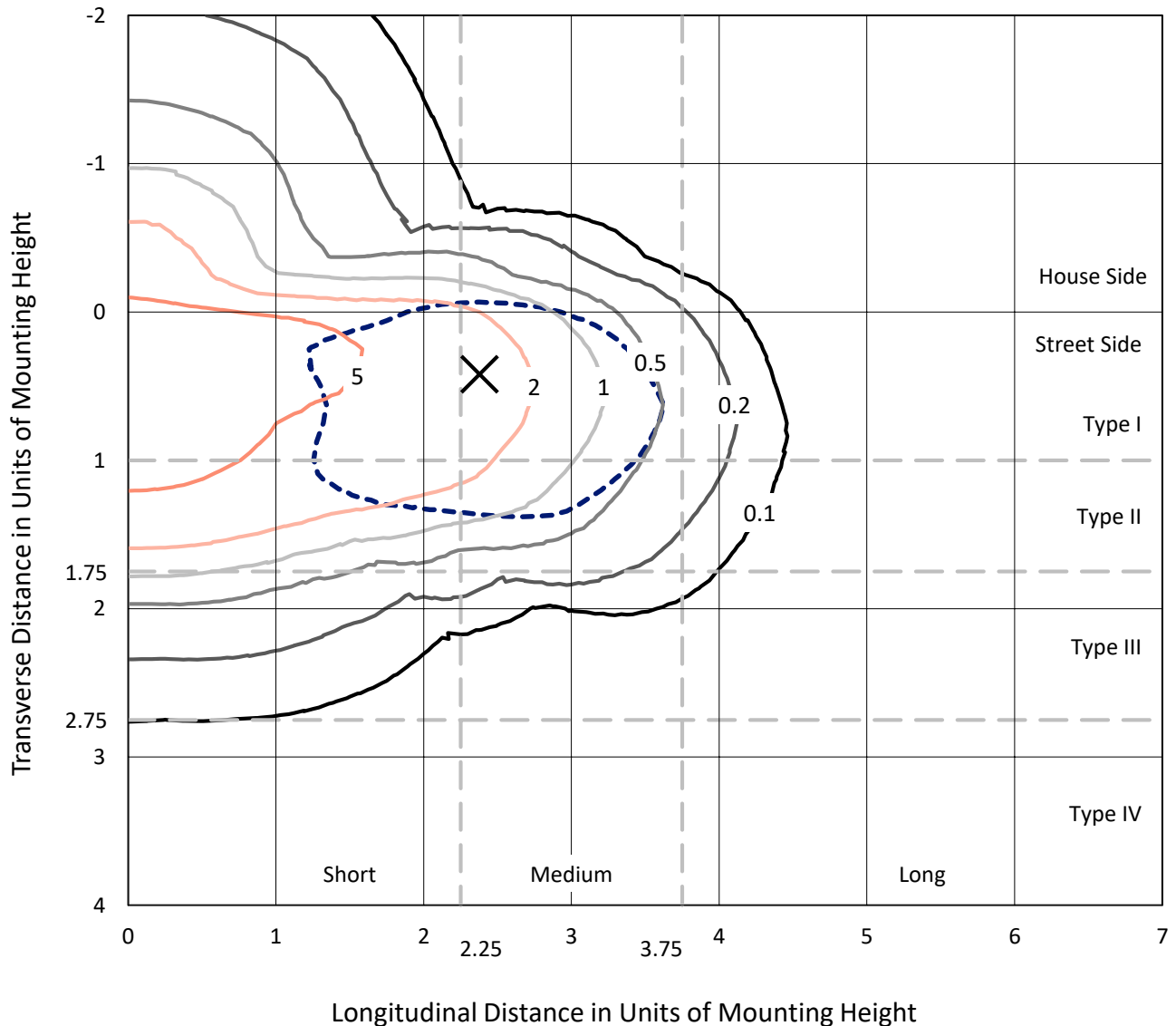


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### Iso-Footcandle Lines of Horizontal Illumination

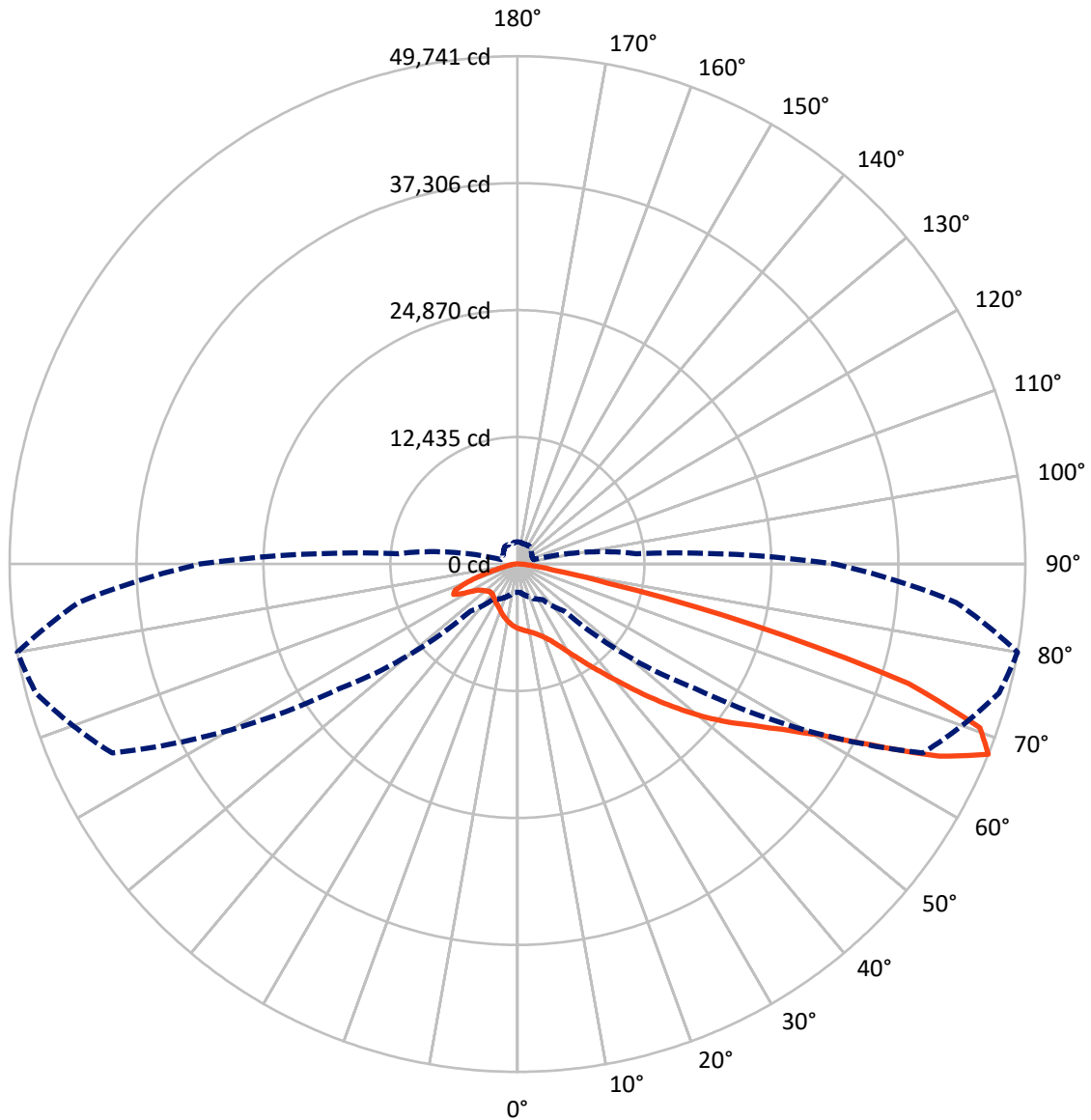
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.5 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	8347.0	0.0	8347.0
	% Fixture	18.4	0.0	18.4
<b>Street Side</b>	Lumens	36977.0	0.0	36977.0
	% Fixture	81.6	0.0	81.6
<b>Total</b>	Lumens	45324.0	0.0	45324.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	580.9	1.3
10°-20°	1673.3	3.7
20°-30°	2769.6	6.1
30°-40°	4530.4	10.0
40°-50°	7314.8	16.1
50°-60°	10560.4	23.3
60°-70°	11654.0	25.7
70°-80°	5371.8	11.9
80°-90°	868.9	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°	45324.0	100.0
0°-180°	45324.0	100.0



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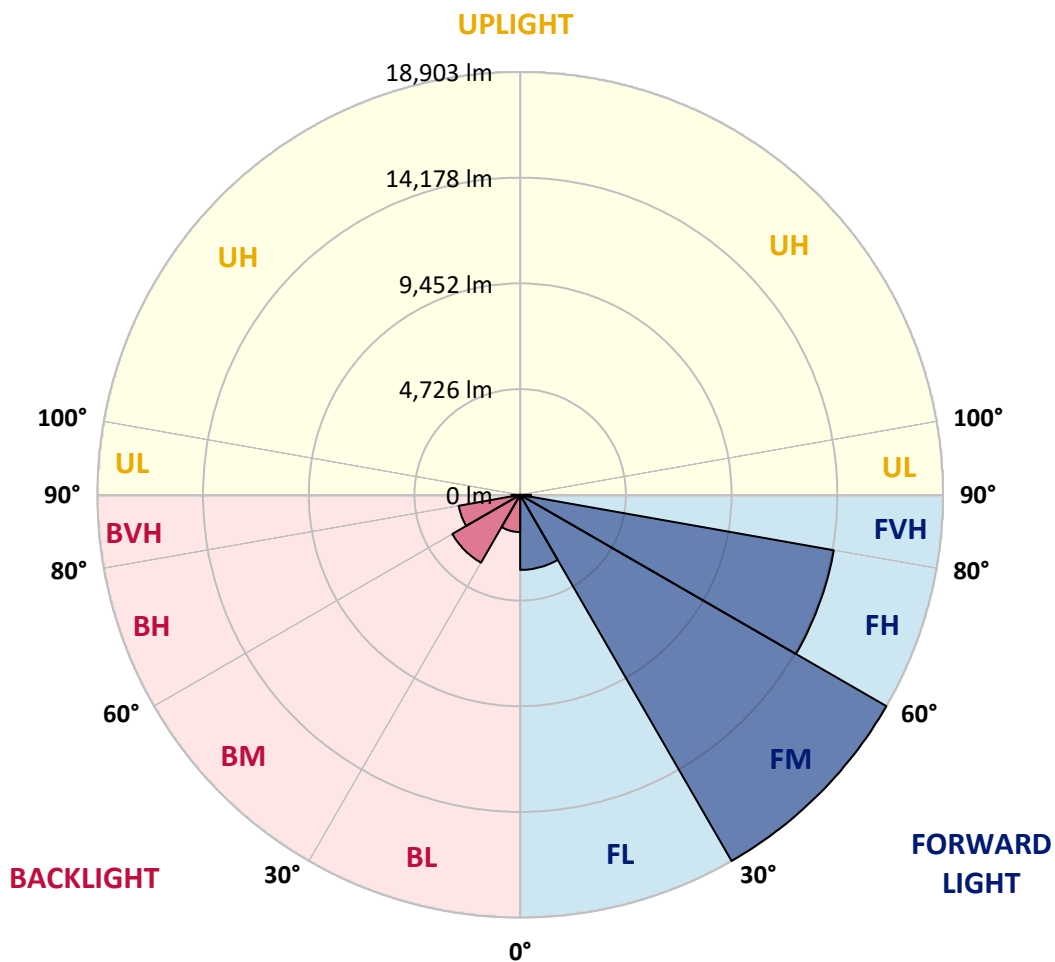
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3358.4	7.4			
FM (30°-60°)	18903.5	41.7			
FH (60°-80°)	14237.4	31.4			G5
FVH (80°-90°)	477.7	1.1			G3/500
BL (0°-30°)	1665.3	3.7	B3/2500		
BM (30°-60°)	3502.1	7.7	B3/5000		
BH (60°-80°)	2788.4	6.2	B4/5000		G4/5000
BVH (80°-90°)	391.2	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°	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8
2.5°	6888.1	6848.0	6854.7	6843.5	6810.0	6752.0	6689.5	6575.7	6457.5	6395.0	6345.9
5°	7463.8	7452.7	7437.0	7401.3	7316.5	7196.0	7046.5	6845.7	6629.3	6515.5	6406.2
7.5°	7894.5	7887.8	7867.7	7845.4	7762.8	7617.8	7392.4	7106.8	6792.2	6636.0	6466.4
10°	7930.2	7941.3	7956.9	8017.2	8028.3	7950.2	7720.4	7374.6	6961.8	6760.9	6544.5
12.5°	7626.7	7651.2	7711.5	7865.4	8028.3	8124.3	8006.0	7655.7	7160.3	6917.1	6642.7
15°	7225.1	7238.4	7312.1	7524.1	7816.4	8113.1	8224.7	7965.9	7417.0	7118.0	6789.9
17.5°	7053.2	7059.9	7111.3	7251.8	7524.1	7948.0	8347.4	8302.8	7731.6	7367.9	6970.7
20°	6966.2	6981.8	7055.5	7193.8	7365.6	7736.0	8365.3	8666.5	8106.4	7680.2	7198.3
22.5°	7213.9	7207.2	7234.0	7303.2	7448.2	7671.3	8351.9	9041.4	8583.9	8081.9	7495.0
25°	7791.8	7816.4	7769.5	7691.4	7738.3	7894.5	8423.3	9447.5	9181.9	8597.3	7883.3
27.5°	8615.2	8590.6	8521.5	8338.5	8242.5	8309.5	8659.8	9884.8	9925.0	9275.7	8396.5
30°	9436.3	9416.2	9349.3	9126.2	8929.8	8874.0	9119.5	10386.9	10810.8	10090.1	9025.7
32.5°	10288.7	10266.4	10203.9	9980.8	9744.2	9614.8	9773.2	10967.0	11855.1	11062.9	9766.5
35°	11339.6	11297.2	11165.6	10855.4	10623.4	10523.0	10596.6	11696.6	13060.0	12214.3	10665.8
37.5°	12328.1	12392.8	12258.9	11830.5	11529.3	11493.6	11576.2	12586.9	14358.6	13501.8	11698.9
40°	13321.1	13332.2	13211.7	12861.4	12551.2	12493.2	12700.7	13666.9	15891.6	15041.4	12955.1
42.5°	14347.5	14369.8	14166.7	13843.2	13615.6	13626.8	13863.3	14932.1	17649.8	16855.5	14401.0
45°	15563.5	15597.0	15373.9	14949.9	14742.4	15159.7	15061.5	16351.2	19577.7	18917.2	16061.1
47.5°	16835.4	16886.7	16717.1	16320.0	16061.1	16634.6	16259.7	17924.3	21652.9	21128.5	17884.1
50°	17529.4	17603.0	17768.1	17739.1	17683.3	17587.4	17596.3	19611.2	23792.7	23431.2	19758.5
52.5°	17156.7	17154.5	17756.9	18488.8	19269.8	19327.8	19225.2	21389.6	25792.0	25682.6	21523.4
55°	15452.0	15568.0	16480.6	17897.5	20030.7	21362.8	21666.2	23426.8	27755.6	27882.7	23315.2
57.5°	12613.7	12709.7	13941.4	15916.1	19004.3	22572.2	25138.2	26387.7	29951.2	30544.7	25700.5
60°	8554.9	8671.0	9976.3	12348.2	16241.9	21898.3	28442.8	31671.5	32579.7	33929.7	29047.5
62.5°	5027.2	5132.1	6196.4	7789.6	11435.6	18767.7	29893.2	39188.9	36754.5	39037.2	34152.8
65°	3460.8	3532.2	4049.9	4848.7	6571.3	12640.5	28094.7	44379.0	43178.5	45365.2	40072.5
67.5°	2784.7	2775.8	3186.3	3730.8	4230.6	6517.7	21244.5	43792.1	48828.3	49740.9	43145.1
70°	2293.8	2284.9	2563.8	3014.5	3380.5	3670.5	11571.7	36955.3	47676.9	48047.3	40315.7
72.5°	1918.9	1927.9	2106.4	2441.1	2773.5	2764.6	5085.2	25997.3	37506.5	40068.0	32137.9
75°	1619.9	1624.4	1742.7	1979.2	2251.4	2226.9	2757.9	14084.2	21802.4	23585.2	17815.0
77.5°	1379.0	1383.4	1459.3	1590.9	1785.1	1776.1	2012.7	6084.8	9094.9	8983.3	6093.8
80°	1229.5	1229.5	1265.2	1289.7	1396.8	1356.7	1492.8	2923.0	3844.6	3550.1	2432.2
82.5°	963.9	968.4	1187.1	1178.1	1100.0	1048.7	1048.7	1722.6	2037.2	1883.2	1423.6
85°	542.2	540.0	765.3	923.8	968.4	738.6	731.9	963.9	1109.0	977.3	689.5
87.5°	232.1	236.5	354.8	410.6	548.9	459.7	453.0	497.6	564.5	488.7	319.1
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8	6296.8
2.5°	6299.1	6241.0	6113.9	5955.4	5812.6	5718.9	5634.1	5511.4	5518.1	5433.3	5370.8
5°	6294.6	6174.1	5879.6	5529.2	5192.3	4949.1	4766.1	4601.0	4560.8	4482.7	4435.9
7.5°	6299.1	6102.7	5607.3	5047.3	4630.0	4322.1	4165.9	4078.9	4058.8	4032.0	4034.3
10°	6314.7	6038.0	5308.3	4596.5	4159.2	3956.2	3918.2	3945.0	3976.2	3985.2	3987.4
12.5°	6350.4	5980.0	4980.3	4194.9	3864.7	3802.2	3866.9	3958.4	4018.6	4047.6	4045.4
15°	6430.7	5935.3	4665.7	3880.3	3701.8	3735.3	3855.7	3985.2	4072.2	4112.3	4114.6
17.5°	6517.7	5870.6	4342.2	3639.3	3581.3	3666.1	3815.6	3967.3	4074.4	4119.0	4128.0
20°	6631.5	5790.3	4003.0	3458.6	3467.5	3563.4	3704.0	3855.7	3974.0	4011.9	4029.8
22.5°	6781.0	5703.3	3706.2	3311.3	3338.1	3411.7	3521.0	3652.7	3755.3	3773.2	3788.8
25°	6981.8	5609.6	3469.7	3177.4	3188.6	3231.0	3304.6	3382.7	3454.1	3434.0	3449.6
27.5°	7251.8	5529.2	3293.4	3054.7	3034.6	3043.5	3081.5	3106.0	3143.9	3088.2	3094.9
30°	7568.7	5442.2	3157.3	2947.6	2891.8	2876.2	2885.1	2898.5	2927.5	2851.6	2840.5
32.5°	7936.9	5337.3	3030.2	2853.9	2775.8	2744.5	2749.0	2784.7	2896.3	2849.4	2824.9
35°	8365.3	5219.1	2896.3	2751.2	2697.7	2653.1	2648.6	2760.2	3092.6	3063.6	3041.3
37.5°	8867.3	5100.8	2762.4	2635.2	2639.7	2590.6	2575.0	2702.1	3130.6	3016.8	3001.1
40°	9505.5	5038.3	2648.6	2512.5	2568.3	2561.6	2530.3	2595.0	2880.7	2673.1	2646.4
42.5°	10295.4	5047.3	2563.8	2380.8	2483.5	2554.9	2505.8	2508.0	2610.7	2454.5	2429.9
45°	11270.5	5152.1	2503.6	2276.0	2387.5	2548.2	2496.9	2461.2	2470.1	2387.5	2374.1
47.5°	12408.4	5368.6	2461.2	2188.9	2296.0	2523.6	2494.6	2447.8	2427.7	2383.1	2371.9
50°	13673.6	5683.2	2429.9	2106.4	2213.5	2483.5	2496.9	2434.4	2412.1	2394.2	2387.5
52.5°	14916.5	6042.4	2383.1	2035.0	2148.8	2434.4	2503.6	2421.0	2396.5	2383.1	2376.4
55°	16302.1	6490.9	2311.7	1974.7	2095.2	2371.9	2503.6	2400.9	2374.1	2376.4	2374.1
57.5°	18174.2	7216.1	2226.9	1923.4	2030.5	2296.0	2461.2	2378.6	2345.1	2347.4	2349.6
60°	21099.5	8494.7	2124.2	1872.1	1950.2	2206.8	2403.1	2329.5	2296.0	2305.0	2307.2
62.5°	25401.5	10371.2	1990.3	1796.2	1865.4	2110.8	2322.8	2267.0	2233.6	2255.9	2255.9
65°	29873.1	12026.9	1825.2	1700.3	1776.1	2006.0	2222.4	2188.9	2155.5	2206.8	2204.6
67.5°	31075.8	11656.5	1660.1	1595.4	1686.9	1889.9	2101.9	2084.1	2066.2	2155.5	2151.0
70°	27606.1	9358.2	1508.4	1488.3	1588.7	1765.0	1972.5	1972.5	1961.3	2028.3	2012.7
72.5°	21032.5	6636.0	1363.3	1374.5	1477.1	1628.9	1831.9	1847.5	1829.7	1863.2	1849.8
75°	11259.3	3797.7	1218.3	1249.5	1338.8	1490.5	1675.7	1691.4	1680.2	1678.0	1684.7
77.5°	3741.9	1856.5	1066.6	1115.7	1193.8	1347.7	1512.8	1537.4	1510.6	1506.1	1503.9
80°	1666.8	1167.0	899.2	963.9	1033.1	1184.8	1341.0	1361.1	1332.1	1372.3	1320.9
82.5°	1071.0	767.6	720.7	792.1	859.1	1022.0	1169.2	1173.7	1146.9	1332.1	1135.7
85°	519.9	475.3	542.2	606.9	664.9	803.3	968.4	970.6	903.7	823.4	794.4
87.5°	258.8	276.7	361.5	419.5	448.5	551.1	705.1	691.7	662.7	602.5	555.6
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)