

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: P192265

Luminaire Tested: **GLEON-AF-07-LED-E1-T3-7050-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192265  
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-07-LED-E1-T3-7050-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46196 lumens  
Efficiency: N/A  
Efficacy: 103.1 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

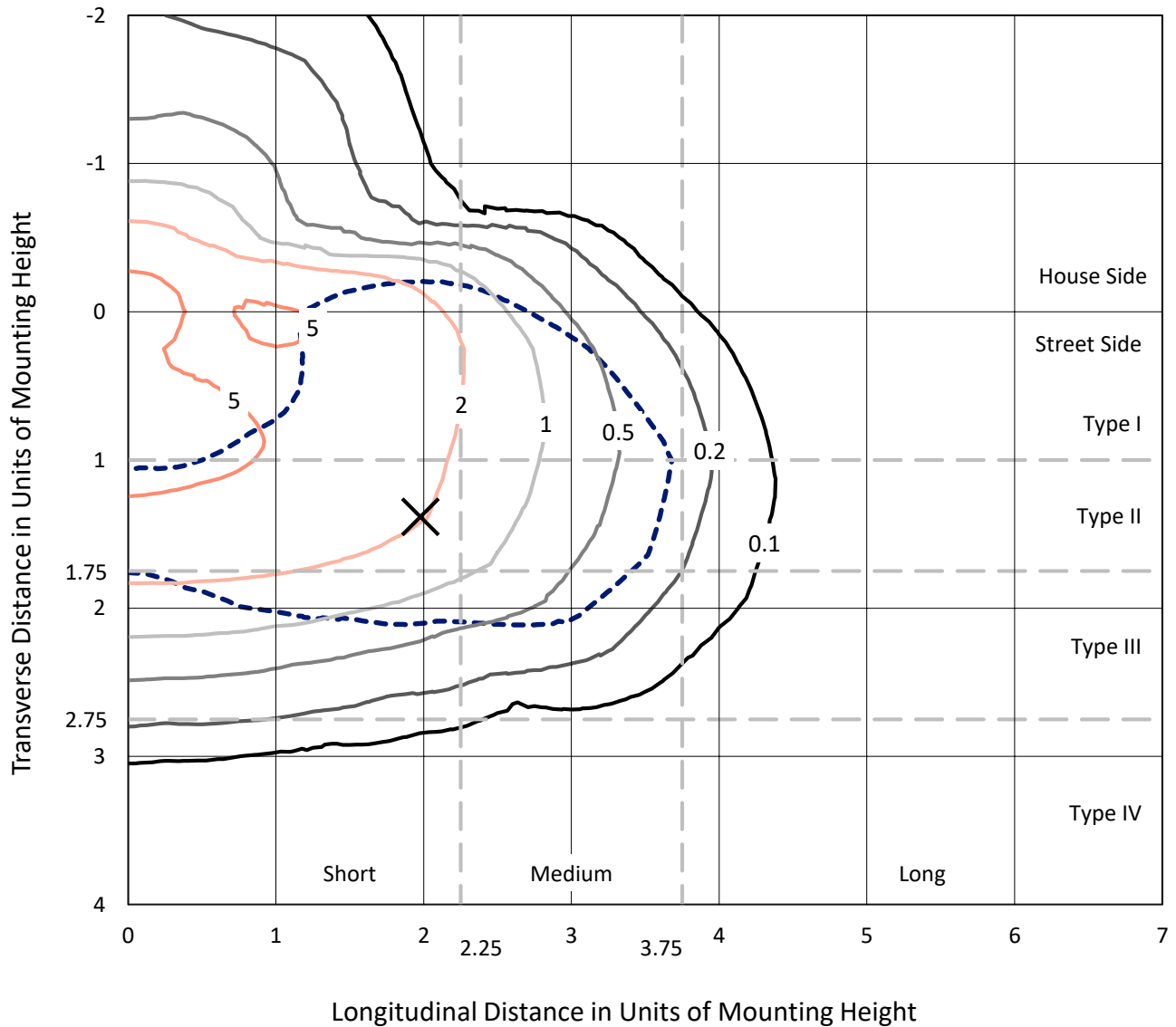
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

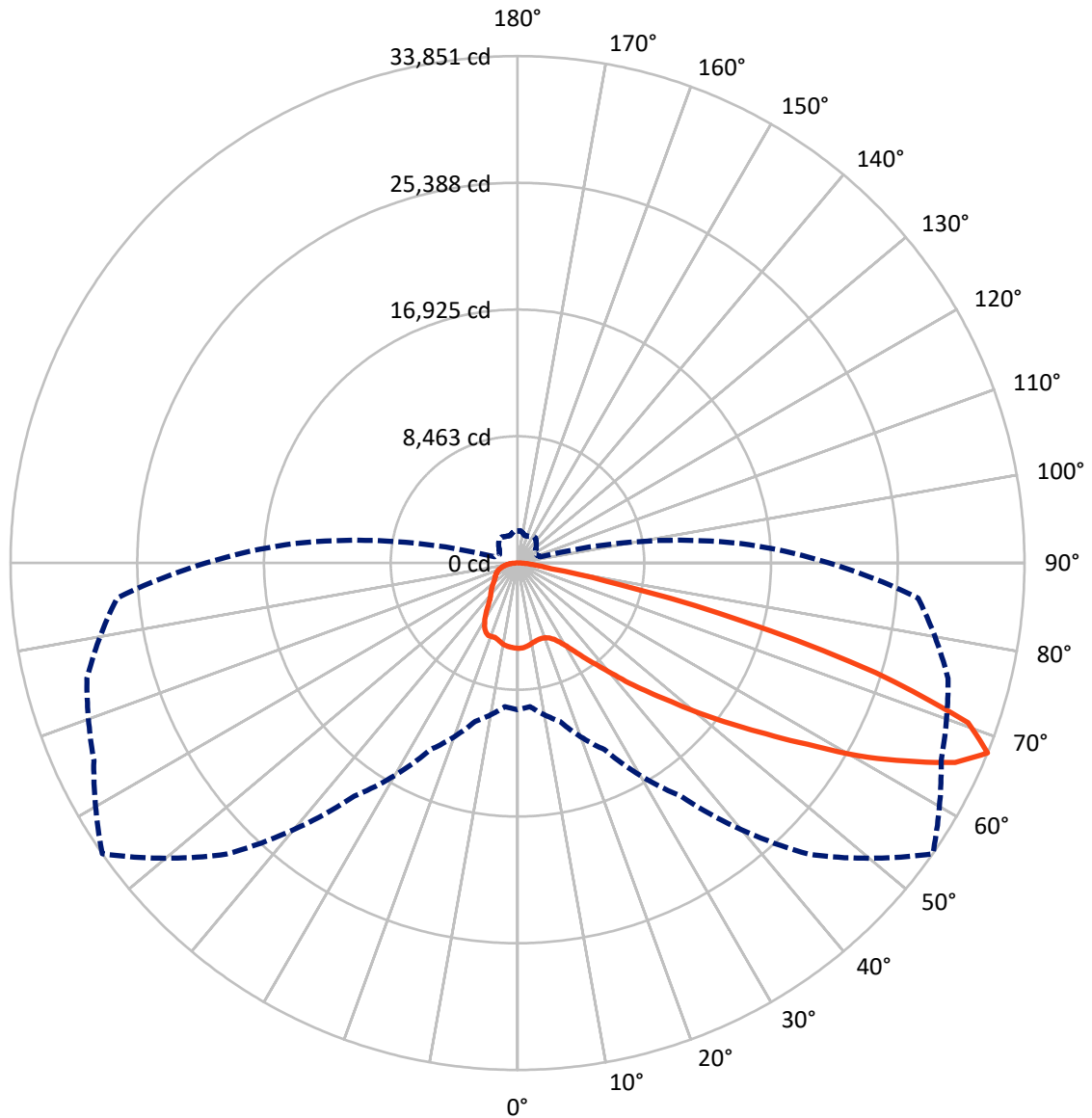
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	9979.3	0.0	9979.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	36216.7	0.0	36216.7
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	46196.0	0.0	46196.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	531.7	1.2
10°-20°	1505.9	3.3
20°-30°	2522.5	5.5
30°-40°	4148.1	9.0
40°-50°	6982.5	15.1
50°-60°	10990.0	23.8
60°-70°	13115.4	28.4
70°-80°	5632.0	12.2
80°-90°	767.9	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°	46196.0	100.0
0°-180°	46196.0	100.0



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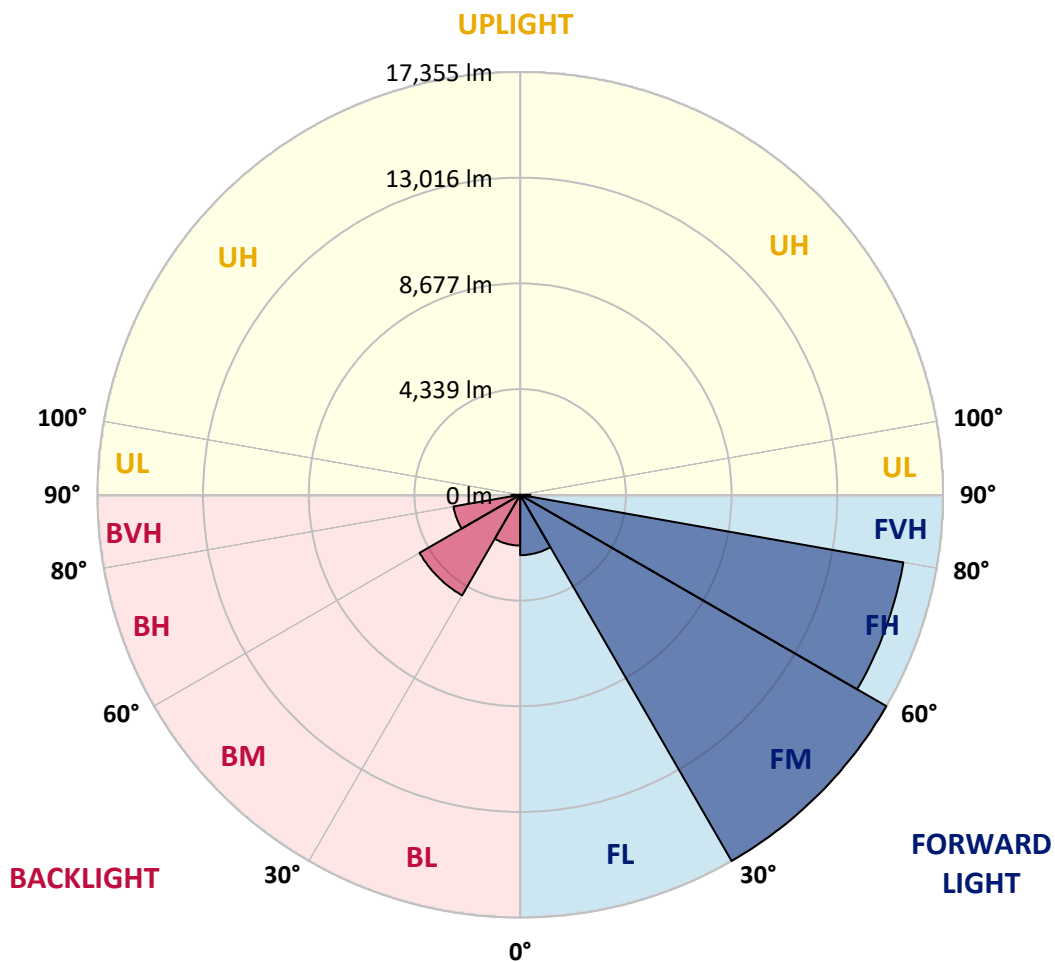
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2476.2	5.4			
FM (30°-60°)	17354.6	37.6			
FH (60°-80°)	15970.2	34.6			G5
FVH (80°-90°)	415.7	0.9			G3/500
BL (0°-30°)	2083.9	4.5	B3/2500		
BM (30°-60°)	4766.0	10.3	B3/5000		
BH (60°-80°)	2777.2	6.0	B4/5000		G4/5000
BVH (80°-90°)	352.2	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°	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5
2.5°	5647.4	5649.6	5654.1	5671.9	5687.5	5683.1	5685.3	5676.4	5674.2	5660.8	5674.2
5°	5576.0	5582.7	5584.9	5613.9	5631.8	5636.2	5629.5	5618.4	5605.0	5591.6	5598.3
7.5°	5413.1	5430.9	5433.2	5473.3	5502.3	5540.3	5542.5	5544.7	5538.1	5529.1	5542.5
10°	5310.5	5314.9	5312.7	5341.7	5364.0	5406.4	5430.9	5473.3	5491.2	5495.7	5504.6
12.5°	5303.8	5299.3	5292.6	5292.6	5285.9	5303.8	5348.4	5408.6	5451.0	5464.4	5475.6
15°	5375.2	5372.9	5350.6	5317.2	5274.8	5261.4	5299.3	5366.2	5422.0	5451.0	5462.2
17.5°	5535.8	5522.4	5486.7	5410.9	5319.4	5283.7	5288.1	5343.9	5408.6	5446.6	5457.7
20°	5830.3	5830.3	5754.5	5611.7	5448.8	5364.0	5323.8	5357.3	5419.8	5471.1	5486.7
22.5°	6339.1	6343.5	6216.4	5982.1	5707.6	5526.9	5426.5	5419.8	5493.4	5551.4	5569.3
25°	7059.8	7041.9	6863.4	6528.7	6111.5	5812.5	5638.5	5598.3	5660.8	5725.5	5747.8
27.5°	7898.7	7834.0	7622.1	7218.2	6678.2	6240.9	5973.2	5908.4	5968.7	6042.3	6064.6
30°	8728.8	8661.8	8409.7	7967.9	7367.7	6814.3	6430.6	6325.7	6410.5	6515.4	6528.7
32.5°	9558.8	9558.8	9277.7	8762.3	8108.5	7499.3	7039.7	6914.8	7055.3	7182.5	7211.5
35°	10551.7	10556.2	10284.0	9663.7	8960.8	8316.0	7809.5	7718.0	7930.0	8019.2	8088.4
37.5°	11772.3	11796.8	11446.5	10696.8	9927.0	9248.7	8646.2	8521.3	8733.3	8976.5	9199.6
40°	13091.0	13122.2	12736.2	11812.4	11042.6	10333.1	9681.5	9456.2	9808.7	10272.8	10560.7
42.5°	14349.4	14510.0	14137.4	13186.9	12359.1	11625.0	10964.5	10636.5	11078.3	11779.0	12028.9
45°	16167.9	16283.9	15634.6	14773.3	13994.6	13173.5	12298.8	11953.0	12571.1	13454.7	13506.0
47.5°	17379.5	17292.5	16962.2	16426.7	15933.6	15166.0	13849.6	13470.3	14291.4	15331.2	15043.3
50°	18024.3	18051.1	18006.5	18037.7	18055.6	17573.6	15750.6	15230.8	16210.3	17466.5	16803.8
52.5°	18626.8	18448.3	18595.5	19327.4	20211.0	20032.5	17819.0	17276.8	18267.5	19836.1	18664.7
55°	18613.4	18341.2	18820.9	20112.8	22029.5	22234.8	20141.8	19517.1	20443.0	22377.6	20637.2
57.5°	17955.2	17968.5	18707.1	20398.4	23296.8	24305.4	22837.2	21900.1	22750.2	24952.5	22437.8
60°	17049.3	17172.0	18236.3	20351.6	24312.1	26003.4	26144.0	24468.3	25010.5	27293.1	23928.3
62.5°	15587.8	15717.2	17185.4	19865.1	24158.1	27638.9	29133.9	27382.3	27373.4	28712.2	24365.6
65°	13282.8	13244.9	14786.7	18046.6	22866.2	28848.3	32103.7	29901.5	29154.0	28734.5	23486.5
67.5°	9795.3	9625.8	10948.9	13744.7	19006.1	27493.9	33850.8	31213.5	29760.9	26844.6	20800.0
70°	5082.9	4913.3	5984.3	8025.9	12499.7	21458.3	31916.3	30535.1	28419.9	22502.5	16295.1
72.5°	2173.3	2144.3	2579.4	3521.0	6046.8	12376.9	25026.1	26429.6	24385.7	16765.9	11203.3
75°	1461.5	1452.6	1615.5	1918.9	2719.9	5022.6	15661.4	18760.6	17841.4	10395.6	6301.1
77.5°	1146.9	1135.7	1231.7	1378.9	1762.7	1981.4	6950.5	10072.0	9322.3	4525.0	2757.9
80°	897.0	888.1	948.3	1028.6	1267.4	1249.5	2287.1	4007.4	3101.5	1733.7	1341.0
82.5°	707.3	707.3	756.4	758.6	899.2	852.4	1193.7	1764.9	1548.5	1010.8	821.1
85°	647.1	647.1	698.4	566.7	586.8	537.7	740.8	1046.5	981.8	415.0	357.0
87.5°	325.8	316.8	586.8	502.0	319.1	285.6	361.5	506.5	544.4	229.8	178.5
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°	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5	5696.5
2.5°	5669.7	5667.5	5671.9	5674.2	5692.0	5716.6	5727.7	5743.3	5752.3	5747.8
5°	5602.8	5607.2	5625.1	5638.5	5669.7	5709.9	5732.2	5750.0	5765.6	5758.9
7.5°	5547.0	5558.1	5584.9	5596.1	5613.9	5625.1	5622.8	5629.5	5642.9	5627.3
10°	5515.7	5529.1	5549.2	5533.6	5491.2	5430.9	5375.2	5346.2	5355.1	5343.9
12.5°	5484.5	5502.3	5486.7	5413.1	5294.8	5216.7	5174.4	5178.8	5198.9	5203.4
15°	5466.6	5473.3	5406.4	5268.1	5147.6	5136.4	5158.7	5154.3	5156.5	5156.5
17.5°	5466.6	5448.8	5323.8	5185.5	5134.2	5114.1	5044.9	4957.9	4920.0	4906.6
20°	5495.7	5448.8	5297.1	5205.6	5094.0	4922.2	4739.2	4578.6	4507.2	4487.1
22.5°	5582.7	5502.3	5372.9	5214.5	4897.7	4609.8	4319.8	4127.9	3998.5	3976.2
25°	5758.9	5669.7	5522.4	5096.3	4585.3	4174.7	3844.5	3630.3	3500.9	3483.0
27.5°	6066.9	6008.9	5602.8	4835.2	4170.3	3730.7	3425.0	3259.9	3164.0	3157.3
30°	6531.0	6502.0	5562.6	4449.2	3659.3	3300.1	3152.8	3056.9	2985.5	2983.2
32.5°	7271.8	7037.5	5430.9	3978.4	3193.0	2994.4	2934.1	2876.1	2820.3	2820.3
35°	8224.5	7470.3	5181.0	3474.1	2909.6	2824.8	2748.9	2657.5	2583.8	2579.4
37.5°	9344.6	7738.1	4732.6	3068.0	2775.7	2711.0	2599.4	2463.3	2333.9	2311.6
40°	10475.9	7818.4	4101.1	2818.1	2690.9	2597.2	2461.1	2300.5	2175.5	2168.8
42.5°	11513.4	7664.5	3431.7	2646.3	2606.1	2481.2	2338.4	2195.6	2097.4	2095.2
45°	12383.6	7265.1	2869.4	2483.4	2516.9	2376.3	2249.1	2133.1	2057.2	2041.6
47.5°	13202.5	6700.5	2474.5	2311.6	2427.6	2318.3	2211.2	2101.9	2028.2	2017.1
50°	14153.0	6091.4	2197.8	2144.3	2349.5	2298.2	2242.4	2128.6	2005.9	1992.5
52.5°	15304.4	5564.8	1981.4	1997.0	2289.3	2325.0	2322.8	2204.5	1990.3	1972.5
55°	16589.6	4980.2	1818.5	1876.5	2264.8	2374.1	2342.8	2275.9	2003.7	1976.9
57.5°	17854.7	4297.5	1704.7	1785.0	2229.1	2369.6	2246.9	2151.0	2034.9	1997.0
60°	18803.0	3380.4	1617.7	1704.7	2151.0	2296.0	2142.0	2014.9	2028.2	1999.2
62.5°	18865.5	2612.8	1512.8	1635.5	2032.7	2222.4	2072.9	1954.6	2057.2	2030.5
65°	17756.6	1974.7	1412.4	1553.0	1905.5	2175.5	2005.9	1921.1	2117.5	2088.5
67.5°	14949.6	1588.7	1327.6	1468.2	1778.3	2077.3	1945.7	1889.9	2171.0	2119.7
70°	10792.7	1354.4	1245.1	1365.5	1664.5	1965.8	1892.1	1834.1	2026.0	1945.7
72.5°	6644.8	1173.7	1151.3	1229.4	1577.5	1849.7	1811.8	1729.2	1825.2	1760.5
75°	3317.9	1017.5	1046.5	1095.6	1454.8	1718.1	1677.9	1595.4	1608.8	1595.4
77.5°	1588.7	870.2	923.8	961.7	1296.4	1568.6	1526.2	1441.4	1425.8	1428.0
80°	1006.3	727.4	778.7	805.5	1158.0	1394.6	1352.2	1267.4	1445.9	1341.0
82.5°	629.2	591.3	604.7	653.8	1008.5	1213.8	1158.0	1082.2	1303.1	1030.9
85°	348.1	412.8	430.6	473.0	776.5	1015.2	959.5	863.5	774.3	760.9
87.5°	207.5	245.4	252.1	283.4	522.1	734.1	649.3	615.8	511.0	508.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)