

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: P269516

Luminaire Tested: **GLEON-AF-07-LED-E1-T4FT-7027-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269516  
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-7027-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 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: 40368.4 lumens  
Efficiency: N/A  
Efficacy: 90.1 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

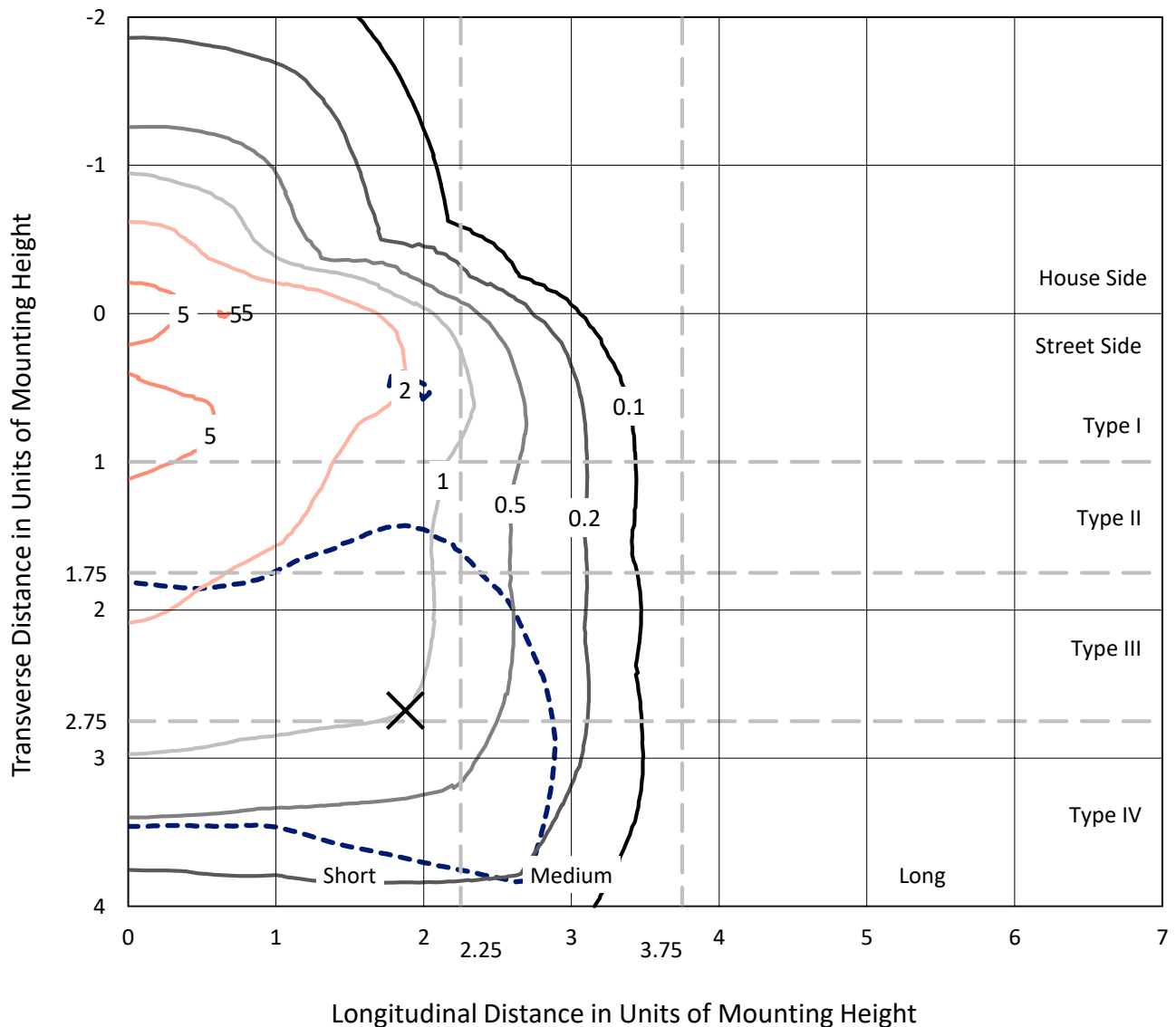


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### Iso-Footcandle Lines of Horizontal Illumination

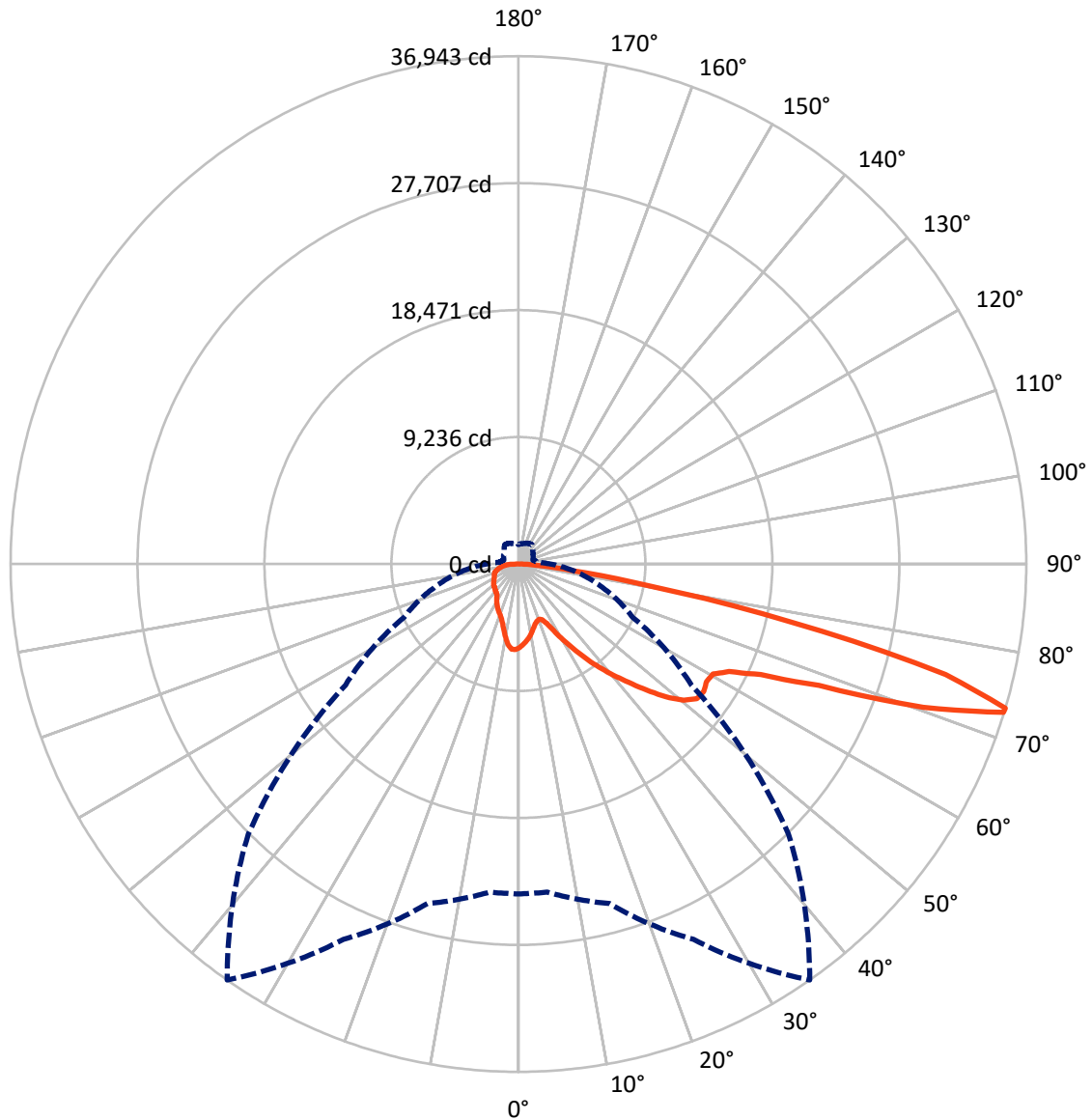
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 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	7699.4	0.0	7699.4
	% Fixture	19.1	0.0	19.1
<b>Street Side</b>	Lumens	32669.0	0.0	32669.0
	% Fixture	80.9	0.0	80.9
<b>Total</b>	Lumens	40368.4	0.0	40368.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	551.6	1.4
10°-20°	1376.6	3.4
20°-30°	2225.6	5.5
30°-40°	3732.0	9.2
40°-50°	5752.6	14.3
50°-60°	7717.8	19.1
60°-70°	10281.6	25.5
70°-80°	7841.8	19.4
80°-90°	888.8	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°	40368.4	100.0
0°-180°	40368.4	100.0



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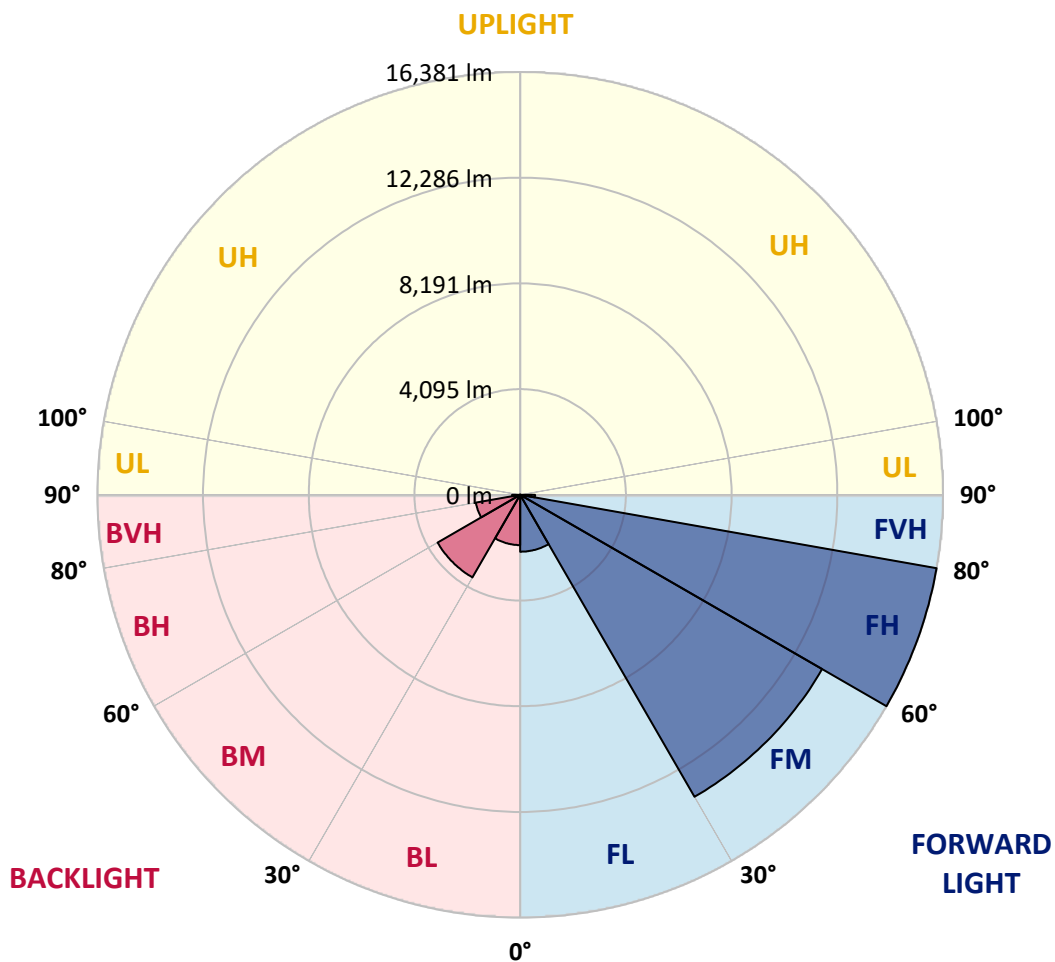
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2205.5	5.5			
FM	(30°-60°)	13507.5	33.5			
FH	(60°-80°)	16381.5	40.6			G5
FVH	(80°-90°)	574.5	1.4			G4/750
BL	(0°-30°)	1948.3	4.8	B3/2500		
BM	(30°-60°)	3694.8	9.2	B3/5000		
BH	(60°-80°)	1741.9	4.3	B3/2500		G3/2500
BVH	(80°-90°)	314.3	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°	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8
2.5°	5852.5	5864.0	5850.5	5868.0	5897.1	5928.1	5949.4	5980.3	6015.3	6063.7	6075.3
5°	5577.1	5594.6	5594.6	5625.6	5681.9	5732.3	5778.7	5829.2	5902.9	5986.2	6019.2
7.5°	5274.8	5284.5	5301.8	5348.4	5429.9	5501.6	5567.4	5648.9	5749.7	5860.3	5918.4
10°	4910.3	4923.9	4951.1	5016.9	5127.4	5226.2	5321.3	5433.8	5561.6	5699.2	5773.0
12.5°	4652.5	4648.5	4660.2	4708.7	4805.7	4925.9	5063.4	5206.9	5364.0	5524.8	5614.0
15°	4565.2	4543.9	4499.3	4487.8	4540.0	4660.2	4819.1	4995.7	5183.7	5377.6	5488.0
17.5°	4619.5	4582.8	4460.5	4371.4	4363.6	4454.8	4623.4	4821.2	5038.2	5274.8	5412.4
20°	4960.7	4873.5	4573.0	4365.7	4293.9	4338.5	4485.7	4695.1	4951.1	5265.1	5441.6
22.5°	5776.9	5648.9	5011.1	4625.4	4383.0	4328.8	4439.2	4662.3	4960.7	5385.2	5610.2
25°	6965.2	6782.9	5763.3	5272.8	4772.6	4483.8	4509.0	4737.8	5098.4	5664.4	5935.8
27.5°	7903.5	7785.3	6746.1	6185.9	5482.1	4902.6	4735.9	4927.7	5379.5	6121.9	6399.2
30°	8461.8	8390.0	7796.7	7221.0	6387.5	5569.4	5170.0	5284.5	5819.5	6755.9	6984.5
32.5°	9109.3	9066.6	8775.8	8246.6	7364.6	6445.7	5858.2	5817.6	6408.8	7517.6	7622.4
35°	9779.9	9766.4	9595.8	9215.8	8413.3	7601.0	6771.3	6496.1	7050.4	8308.7	8242.7
37.5°	10404.2	10381.0	10282.0	10061.0	9510.4	8841.7	7701.8	7192.0	7742.5	9064.6	8771.9
40°	11553.7	11371.5	11032.3	10865.4	10619.4	9886.6	8440.5	7841.5	8459.8	9785.7	9229.4
42.5°	12955.3	12658.6	12026.7	11798.0	11763.0	10710.4	8944.5	8471.5	9182.8	10501.0	9679.1
45°	14058.4	13779.1	13234.4	12945.6	13073.6	11456.8	9450.3	9144.0	9927.3	11251.4	10142.5
47.5°	15235.0	14796.9	14075.7	14162.9	14442.1	12162.4	9966.1	9867.2	10743.4	12090.6	10718.1
50°	15277.7	14942.2	14626.4	15147.8	15582.0	12811.8	10611.6	10625.2	11741.7	13147.1	11483.9
52.5°	14391.7	14320.1	14822.0	15642.0	16268.2	13325.5	11346.3	11408.4	13019.2	14360.8	12325.3
55°	14081.7	14000.2	14579.9	15469.5	16361.3	13750.0	12143.0	12255.4	14564.3	15640.1	13145.3
57.5°	14837.7	14657.4	14696.1	15388.1	16134.5	14215.3	13011.5	13238.3	16243.1	16758.7	13672.6
60°	16950.6	16564.8	15832.1	15814.7	16256.5	14913.2	14015.6	14292.8	17987.8	17293.7	13467.0
62.5°	19914.6	19528.9	18156.5	17262.6	17196.9	16064.7	15248.5	15322.2	18995.7	16568.7	12212.7
65°	23122.9	22777.9	21244.5	19982.4	19373.7	17972.2	16681.2	15781.7	18666.2	14573.9	10018.3
67.5°	27017.5	26647.2	25329.0	24163.9	23578.5	21050.6	17687.3	15341.7	16574.5	11290.1	7201.7
70°	29741.2	29363.1	28843.6	29787.6	31220.2	25491.8	17817.2	13552.3	12379.5	7504.1	4334.6
72.5°	26187.7	26011.3	26959.4	30935.2	36902.1	28186.4	16105.4	9867.2	7190.0	3983.8	2508.4
73°	23993.3	23954.6	25571.3	30130.8	36942.7	27771.6	15355.2	9171.2	6166.4	3524.3	2293.4
75°	10834.5	11146.6	14690.3	23014.3	32096.4	22884.5	10807.4	5261.3	3483.5	2434.8	1731.2
77.5°	2603.5	2712.1	4596.3	10929.5	20269.4	13637.7	4896.8	2601.5	2227.3	1719.4	1263.9
80°	1108.9	1145.7	1769.9	4038.1	9543.5	5491.9	2256.5	1742.7	1541.1	1200.0	885.9
82.5°	616.4	655.3	1004.1	1832.0	3851.9	1872.6	1376.4	1213.5	1013.8	723.0	575.8
85°	348.9	370.2	587.4	1023.6	1632.2	752.2	823.8	806.4	572.0	372.2	283.1
87.5°	164.7	178.4	283.1	474.9	639.8	294.6	418.7	461.4	358.7	226.8	147.3
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°	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8	6092.8
2.5°	6088.9	6123.8	6164.6	6185.9	6205.3	6228.6	6251.8	6251.8	6255.6	6257.7
5°	6046.3	6118.0	6182.0	6209.2	6215.0	6215.0	6209.2	6178.2	6151.0	6162.6
7.5°	5957.1	6061.9	6116.1	6106.4	6032.7	5947.5	5875.8	5788.5	5743.9	5736.1
10°	5829.2	5949.4	5959.0	5862.2	5680.0	5497.6	5346.5	5199.2	5129.4	5112.0
12.5°	5687.7	5798.2	5736.1	5536.4	5243.8	4978.1	4786.3	4637.1	4571.0	4553.7
15°	5573.4	5648.9	5491.9	5177.8	4809.5	4528.4	4369.4	4259.0	4212.4	4198.9
17.5°	5513.2	5528.7	5241.8	4817.3	4425.7	4191.1	4092.3	4039.9	4022.5	4012.8
20°	5542.4	5433.8	5003.4	4482.0	4111.6	3946.9	3923.5	3910.1	3906.2	3900.4
22.5°	5687.7	5404.7	4784.4	4164.1	3836.4	3764.6	3784.0	3782.1	3778.2	3774.4
25°	5947.5	5429.9	4571.0	3861.5	3605.6	3590.2	3625.1	3625.1	3609.6	3609.6
27.5°	6290.7	5482.1	4332.6	3574.6	3396.3	3398.3	3425.3	3417.6	3400.3	3388.5
30°	6709.4	5515.1	4053.5	3316.8	3200.5	3192.8	3200.5	3167.6	3115.2	3111.4
32.5°	7137.8	5474.5	3729.8	3088.2	2993.2	2975.6	2969.8	2923.4	2863.2	2845.8
35°	7525.5	5325.2	3400.3	2905.8	2795.3	2756.5	2783.8	2768.2	2714.0	2700.3
37.5°	7808.4	5047.9	3103.6	2745.0	2653.9	2644.3	2661.6	2667.4	2603.5	2590.0
40°	7998.4	4671.8	2849.7	2609.2	2626.7	2590.0	2531.8	2491.0	2471.6	2465.8
42.5°	8151.6	4280.3	2636.4	2545.3	2632.6	2525.9	2399.9	2333.9	2368.9	2384.5
45°	8327.9	3898.5	2458.0	2465.8	2603.5	2452.3	2308.9	2244.9	2258.3	2262.3
47.5°	8570.3	3433.1	2266.2	2337.8	2506.5	2401.9	2252.6	2161.5	2097.5	2068.4
50°	8905.6	2882.7	2066.6	2194.4	2411.5	2365.0	2165.4	2068.4	1950.2	1923.0
52.5°	9138.3	2368.9	1901.7	2074.2	2326.3	2291.3	2095.6	1969.5	1845.5	1822.2
55°	9012.2	1967.6	1758.3	1940.5	2213.9	2200.3	2037.4	1868.7	1771.8	1752.5
57.5°	8382.3	1713.6	1647.8	1814.4	2076.3	2122.8	1959.8	1783.5	1713.6	1700.1
60°	7180.3	1554.6	1578.0	1729.1	1963.8	2045.1	1882.3	1737.0	1690.4	1680.6
62.5°	5571.4	1448.1	1525.6	1667.2	1876.5	1990.9	1839.6	1731.2	1713.6	1702.1
65°	3991.4	1362.8	1469.4	1605.1	1797.0	1940.5	1824.2	1723.4	1727.3	1717.6
67.5°	2712.1	1287.2	1401.5	1535.4	1719.4	1896.0	1802.9	1696.2	1744.7	1733.1
70°	1897.8	1213.5	1322.0	1446.1	1622.6	1833.9	1764.1	1655.5	1651.7	1605.1
72.5°	1481.0	1116.7	1213.5	1322.0	1498.6	1746.7	1686.6	1564.4	1500.3	1452.0
73°	1413.3	1093.3	1186.4	1294.9	1471.3	1725.4	1665.2	1539.2	1467.6	1422.8
75°	1169.0	992.5	1077.8	1174.8	1355.1	1624.5	1560.5	1424.8	1333.8	1306.6
77.5°	918.8	849.1	930.6	1017.7	1194.1	1477.2	1405.5	1275.6	1225.2	1201.9
80°	680.5	703.7	775.3	853.0	1035.1	1320.1	1256.2	1126.3	1351.2	1294.9
82.5°	478.8	533.1	599.0	668.8	868.5	1167.0	1089.5	955.6	988.7	821.9
85°	283.1	348.9	411.0	471.2	626.2	967.4	899.6	761.9	624.2	595.1
87.5°	164.7	193.9	211.3	273.4	430.4	728.9	633.9	564.1	323.7	219.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)