

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: P455144

Luminaire Tested: **GALN-SA6B-740-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34530 lumens
Efficiency: N/A
Efficacy: 142.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

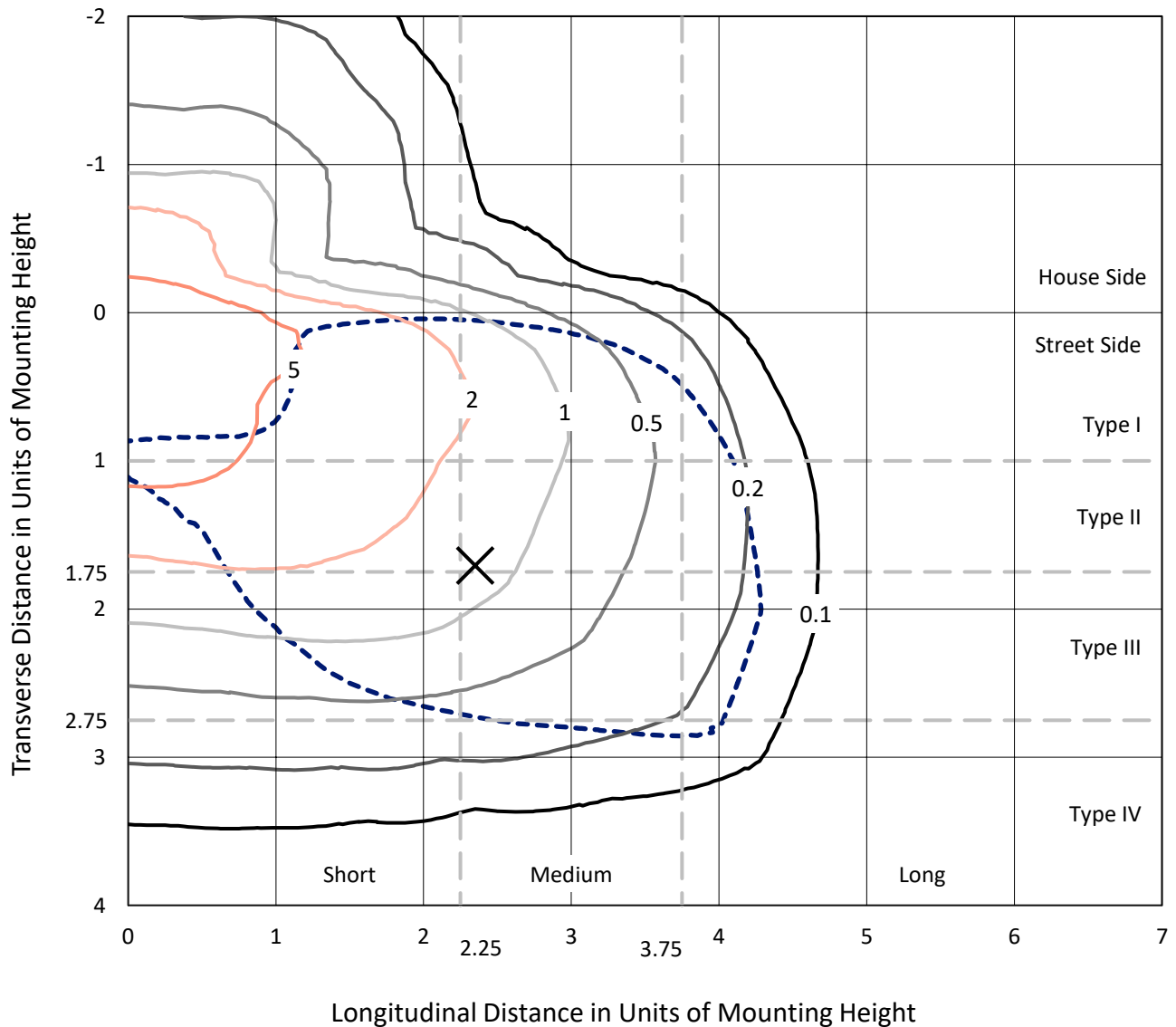
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

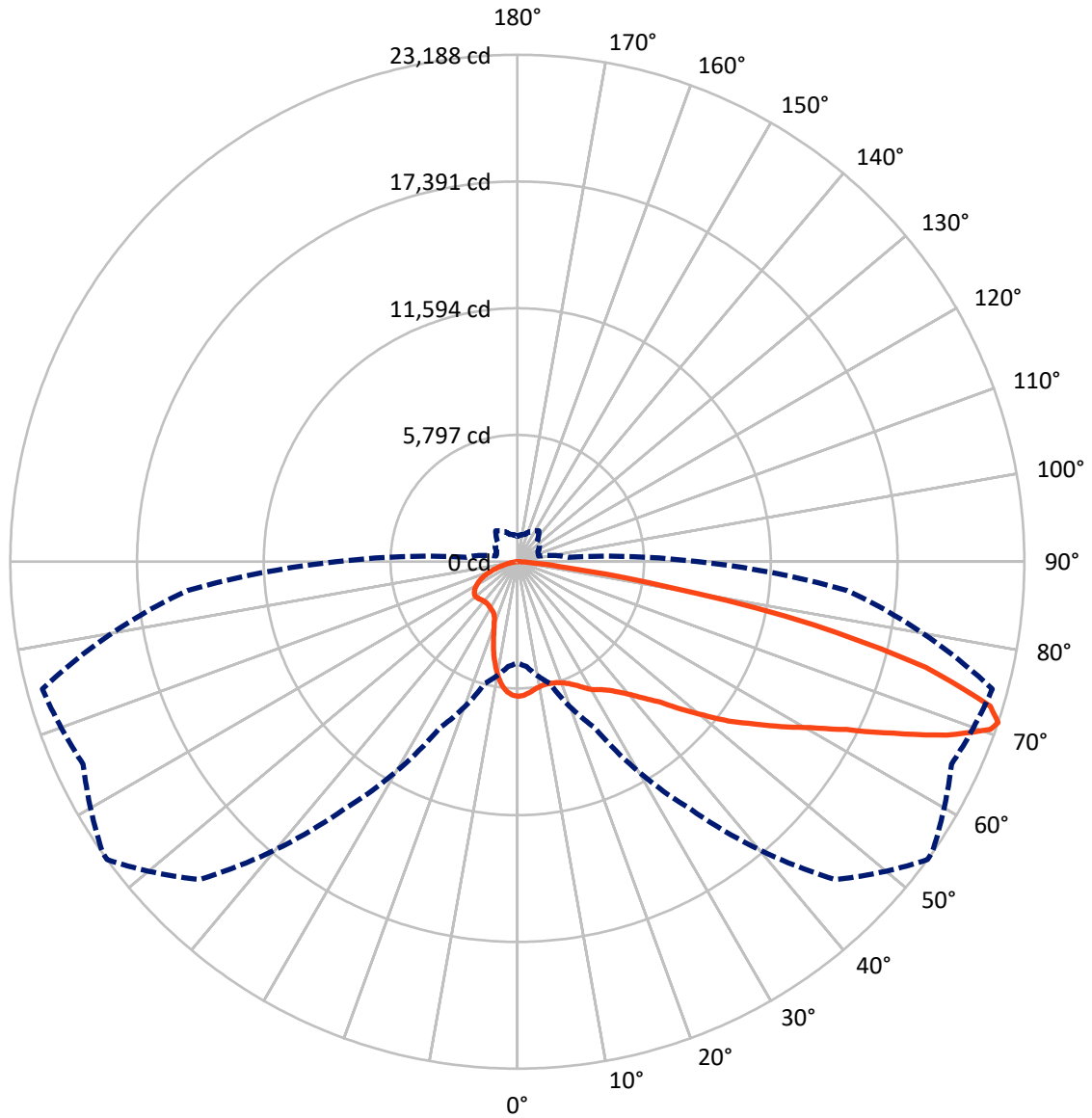
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6234.2	0.0	6234.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	28295.8	0.0	28295.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	34530.0	0.0	34530.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	549.0	1.6
10°-20°	1449.7	4.2
20°-30°	2413.7	7.0
30°-40°	3569.1	10.3
40°-50°	5027.2	14.6
50°-60°	6731.7	19.5
60°-70°	8484.8	24.6
70°-80°	5795.1	16.8
80°-90°	509.6	1.5
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°	34530.0	100.0
0°-180°	34530.0	100.0



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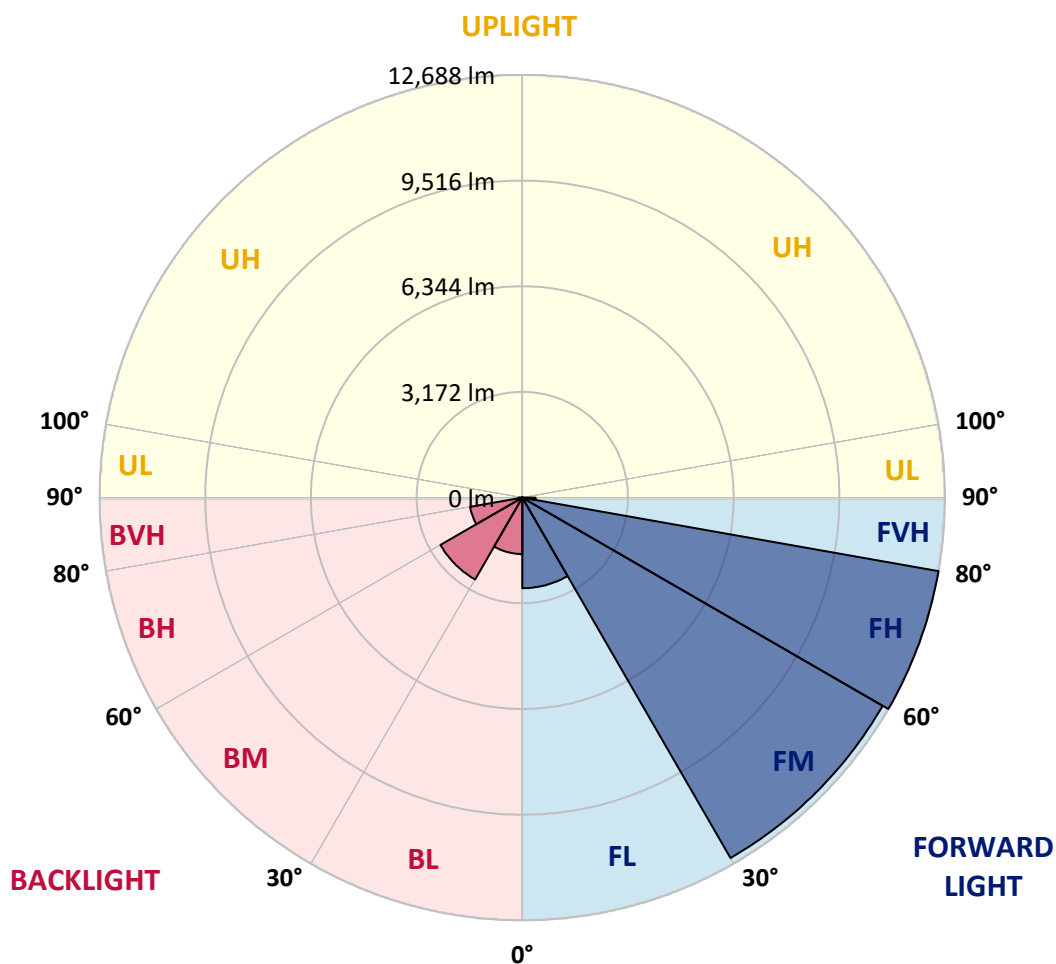
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2718.1	7.9			
FM	(30°-60°)	12491.7	36.2			
FH	(60°-80°)	12687.7	36.7			G5
FVH	(80°-90°)	398.4	1.2			G3/500
BL	(0°-30°)	1694.3	4.9	B3/2500		
BM	(30°-60°)	2836.4	8.2	B3/5000		
BH	(60°-80°)	1592.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	111.3	0.3			G2/225
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7
2.5°	5951.8	5979.7	5987.2	6005.9	6045.0	6076.7	6108.4	6104.7	6149.5	6168.1	6184.9
5°	5686.9	5694.4	5722.3	5759.7	5828.7	5916.3	6002.1	6004.0	6114.0	6201.7	6244.6
7.5°	5492.9	5517.2	5535.8	5575.0	5647.7	5742.9	5879.0	5890.2	6086.1	6259.5	6350.9
10°	5366.1	5394.1	5414.6	5463.1	5535.8	5642.1	5789.5	5810.0	6065.5	6350.9	6511.3
12.5°	5250.5	5278.4	5297.1	5360.5	5455.6	5586.2	5752.2	5776.4	6073.0	6457.2	6686.6
15°	5321.3	5343.7	5336.3	5354.9	5418.3	5567.5	5767.1	5791.4	6101.0	6559.8	6860.1
17.5°	5636.5	5655.2	5593.7	5522.8	5492.9	5603.0	5813.7	5839.9	6156.9	6666.1	7037.3
20°	6101.0	6151.3	6017.0	5858.5	5714.9	5729.8	5910.7	5938.7	6235.3	6772.4	7218.2
22.5°	6705.3	6742.6	6578.5	6317.3	6052.5	5916.3	6056.2	6073.0	6352.8	6910.5	7415.9
25°	7415.9	7438.3	7210.8	6875.0	6492.7	6235.3	6255.8	6285.6	6546.8	7067.1	7591.3
27.5°	8106.0	8176.9	7913.9	7503.6	7000.0	6571.0	6530.0	6548.6	6757.5	7154.8	7712.5
30°	8924.8	8919.3	8641.3	8165.7	7520.4	6936.6	6789.2	6785.5	6871.3	7197.7	7800.1
32.5°	9577.7	9654.1	9381.8	8863.3	8115.4	7315.2	6968.3	6960.8	6959.0	7272.3	7930.7
35°	10320.0	10331.2	10081.3	9559.0	8758.8	7790.8	7218.2	7180.9	7138.0	7432.7	8107.9
37.5°	10984.0	11036.2	10806.8	10221.1	9391.1	8285.1	7561.4	7537.2	7406.6	7710.6	8391.4
40°	11502.5	11541.7	11403.7	10846.0	10014.1	8818.5	7997.9	7953.1	7794.6	8165.7	8770.0
42.5°	11672.2	11752.4	11806.5	11532.4	10730.3	9450.8	8535.0	8479.1	8357.8	8855.8	9206.5
45°	11685.3	11812.1	12097.5	12110.6	11450.3	10208.1	9161.7	9122.6	9113.2	9739.9	9820.1
47.5°	11586.4	11715.1	12194.5	12453.8	12091.9	10972.8	10066.3	10004.8	10010.4	10832.9	10508.4
50°	11347.7	11500.7	12082.6	12673.8	12593.6	11767.4	11021.3	11000.8	11116.4	12080.7	11222.7
52.5°	10898.2	11082.9	11966.9	12811.9	12966.7	12451.9	12106.8	12049.0	12341.8	13434.8	12004.2
55°	9654.1	9932.0	11543.5	12888.3	13321.1	13106.6	13084.2	13188.6	13576.6	14912.1	12864.1
57.5°	9005.1	9213.9	10624.0	12901.4	13768.7	13867.6	14225.7	14251.8	14930.7	16480.7	13835.8
60°	8650.7	8835.3	10120.4	12815.6	14393.5	14809.5	15393.3	15486.5	16253.1	18179.8	14843.0
62.5°	8341.0	8499.6	9818.3	12519.0	15098.6	16206.5	16905.9	16950.7	17754.6	20056.2	15837.2
65°	7611.8	7792.7	9210.2	12222.5	15706.6	17952.3	18912.8	18860.6	19353.0	21675.2	16460.1
67.5°	6628.8	6858.2	8074.3	11198.5	16006.9	19860.4	21173.4	21108.2	20931.0	22736.4	16639.2
70°	5373.6	5496.7	6621.4	9428.4	14807.6	20861.9	22958.4	22889.4	21908.3	22876.3	15792.4
71°	4623.8	4815.9	5765.2	8374.6	13809.7	20556.1	23187.8	23169.2	21910.2	22490.2	15154.5
72.5°	3609.1	3726.6	4565.9	6488.9	11737.5	18817.7	22620.8	22691.7	21434.6	21417.8	13839.6
75°	2283.0	2335.2	2864.9	3819.9	6440.4	13326.7	19310.1	19502.2	19032.2	17530.8	10292.0
77.5°	1326.1	1393.3	1716.0	2251.3	2782.8	7233.1	13817.2	14026.1	13224.1	9652.3	4213.4
80°	772.2	846.8	1130.3	1307.5	1277.6	2684.0	7035.4	7391.7	5726.1	2437.8	1182.5
82.5°	429.0	479.3	794.6	796.4	680.8	876.6	2214.0	2316.5	1633.9	982.9	483.1
85°	311.5	352.5	512.9	464.4	326.4	376.8	770.3	807.6	660.3	414.1	156.7
87.5°	110.0	156.7	281.6	223.8	89.5	78.3	222.0	180.9	167.9	115.6	35.4
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°	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7	6160.7
2.5°	6194.2	6198.0	6179.3	6145.7	6112.2	6069.3	6020.8	5983.5	5966.7	5964.8	5963.0
5°	6261.4	6270.7	6199.8	6095.4	5979.7	5838.0	5716.8	5578.7	5543.3	5487.3	5504.1
7.5°	6369.6	6364.0	6224.1	6002.1	5731.7	5431.4	5177.7	5030.4	4877.4	4834.5	4836.4
10°	6524.4	6488.9	6224.1	5811.9	5360.5	4914.7	4560.3	4336.5	4215.3	4114.6	4077.3
12.5°	6688.5	6599.0	6164.4	5545.2	4883.0	4336.5	3956.0	3653.9	3575.5	3493.5	3495.3
15°	6845.2	6696.0	6046.9	5170.3	4368.2	3719.2	3349.8	3168.9	3144.7	3154.0	3152.1
17.5°	6986.9	6765.0	5867.8	4752.5	3767.6	3189.4	2993.6	3006.7	3071.9	3118.6	3124.2
20°	7130.6	6806.0	5601.1	4192.9	3200.6	2868.6	2876.1	2978.7	3077.5	3140.9	3150.3
22.5°	7266.7	6824.7	5287.8	3652.0	2790.3	2732.5	2842.5	2952.6	3049.6	3111.1	3120.4
25°	7356.2	6781.8	4843.9	3086.9	2588.9	2684.0	2799.6	2892.9	2974.9	3038.4	3053.3
27.5°	7380.5	6643.7	4293.6	2629.9	2495.6	2637.4	2743.7	2812.7	2876.1	2935.8	2947.0
30°	7367.4	6440.4	3689.3	2361.3	2441.5	2583.3	2665.3	2715.7	2792.2	2838.8	2848.1
32.5°	7346.9	6203.6	3058.9	2217.7	2396.7	2532.9	2581.4	2626.2	2624.3	2605.6	2618.7
35°	7354.4	5920.1	2547.8	2131.9	2357.6	2495.6	2536.6	2480.7	2320.3	2312.8	2305.4
37.5°	7393.5	5640.3	2176.7	2072.2	2337.1	2490.0	2512.4	2255.0	2113.2	2048.0	2031.2
40°	7494.3	5313.9	1932.3	2027.4	2335.2	2532.9	2402.3	2141.2	1868.9	1742.1	1732.7
42.5°	7628.6	4993.1	1783.1	1999.5	2357.6	2598.2	2357.6	1980.8	1684.3	1609.6	1598.5
45°	7828.1	4625.6	1701.0	1986.4	2391.2	2622.4	2342.7	1863.3	1609.6	1550.0	1550.0
47.5°	8053.8	4275.0	1656.3	1977.1	2434.0	2605.6	2210.2	1826.0	1574.2	1581.7	1617.1
50°	8277.6	3971.0	1622.7	1956.6	2471.4	2596.3	2156.1	1824.1	1583.5	1678.7	1742.1
52.5°	8536.9	3756.5	1581.7	1923.0	2471.4	2536.6	2139.4	1861.4	1609.6	1637.6	1665.6
55°	8850.2	3689.3	1529.4	1850.3	2426.6	2387.4	2130.0	1915.5	1628.3	1563.0	1574.2
57.5°	9264.3	3797.5	1479.1	1758.9	2324.0	2232.6	2126.3	1930.5	1585.4	1531.3	1520.1
60°	9745.5	4012.0	1464.2	1665.6	2184.1	2100.2	2103.9	1887.6	1525.7	1469.8	1479.1
62.5°	10083.1	4140.7	1454.8	1594.7	2031.2	1954.7	2049.8	1835.3	1499.6	1451.1	1460.4
65°	10083.1	3984.0	1369.0	1486.5	1833.5	1779.4	1984.5	1770.0	1466.0	1410.1	1400.7
67.5°	9700.8	3527.0	1238.5	1324.3	1615.2	1579.8	1893.1	1691.7	1415.7	1372.8	1350.4
70°	8704.8	2674.7	1074.3	1134.0	1339.2	1370.9	1775.6	1585.4	1331.7	1279.5	1245.9
71°	8266.4	2329.6	1005.3	1037.0	1232.9	1279.5	1719.7	1540.6	1294.4	1219.8	1160.1
72.5°	7421.5	1962.2	900.9	913.9	1053.8	1137.8	1602.2	1454.8	1223.6	1117.2	1050.1
75°	5638.4	1432.5	725.6	718.1	779.6	902.7	1356.0	1296.3	1072.5	928.9	889.7
77.5°	2435.9	779.6	542.8	548.4	529.7	684.5	1066.9	1113.5	919.5	755.4	720.0
80°	738.6	449.5	371.2	378.6	354.4	458.8	751.7	872.9	738.6	587.5	539.0
82.5°	378.6	268.6	253.7	249.9	225.7	259.3	455.1	596.9	527.8	367.4	324.5
85°	164.1	143.6	125.0	121.2	106.3	93.3	162.3	298.4	279.8	205.2	195.8
87.5°	41.0	37.3	24.2	22.4	13.1	1.9	0.0	0.0	0.0	0.0	0.0
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)