

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: P456938

Luminaire Tested: **GALN-SA8B-727-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39162 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

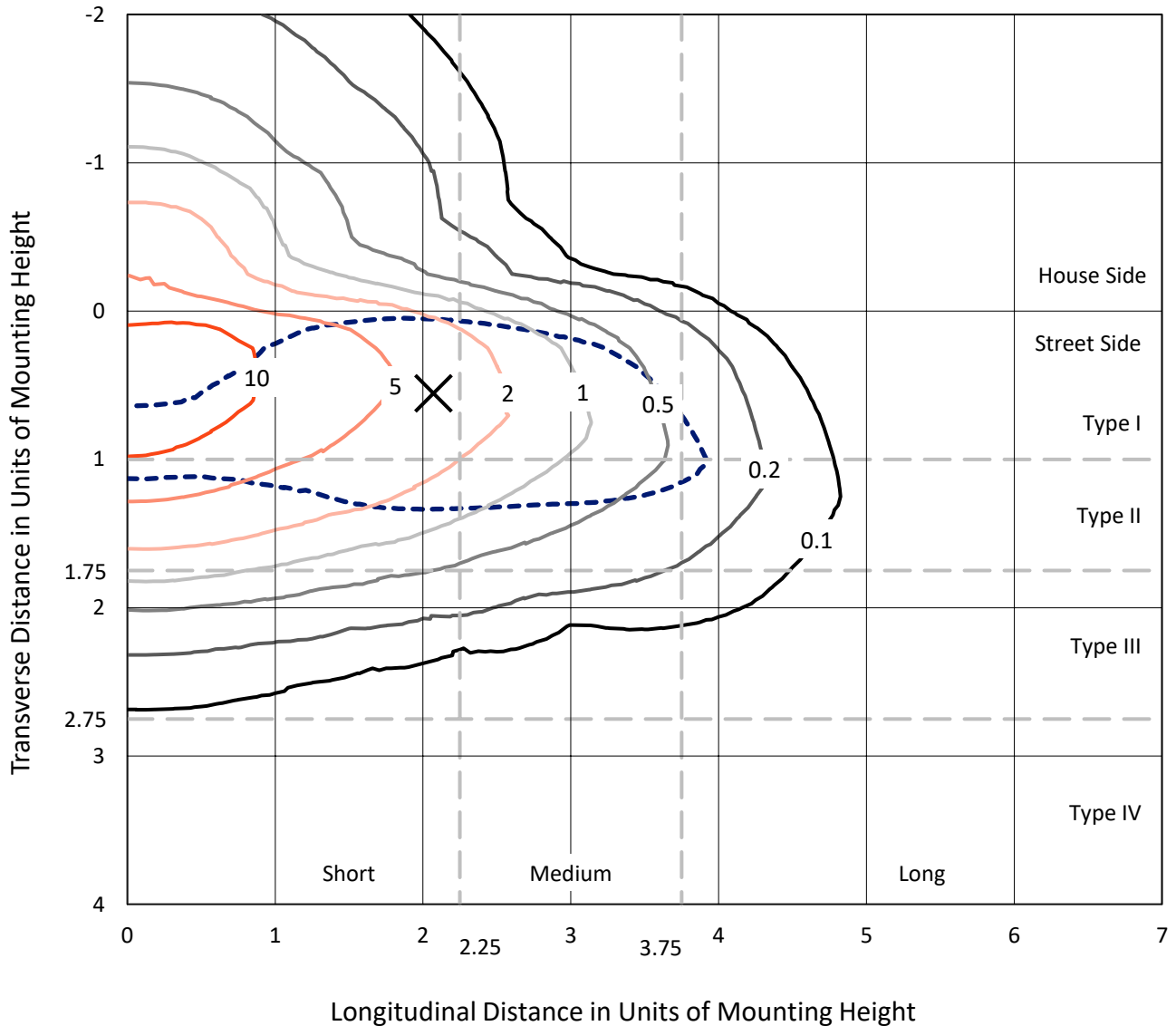
Input Watts (W): 325
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

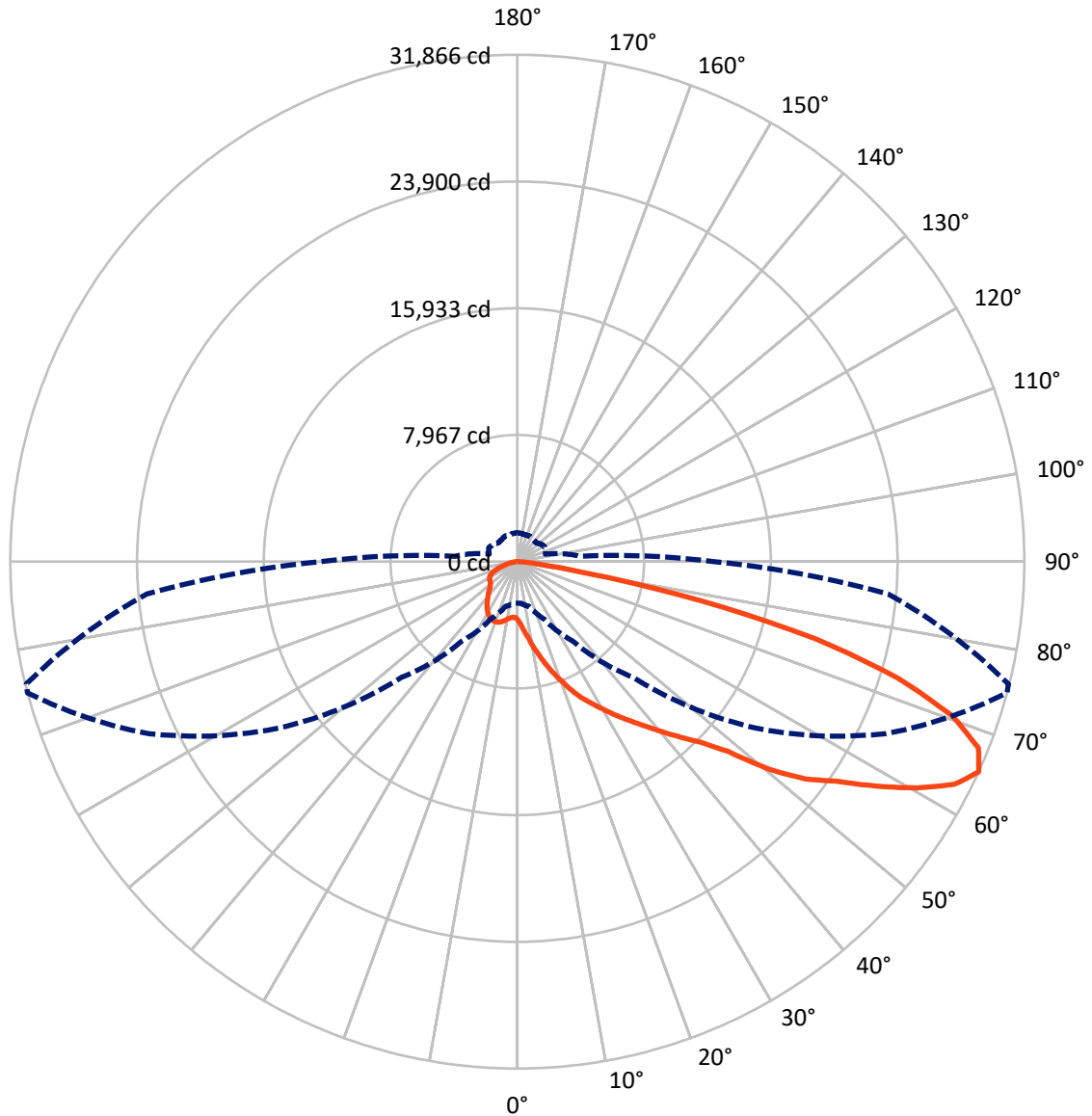
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6583.6	0.0	6583.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	32578.4	0.0	32578.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	39162.0	0.0	39162.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	442.1	1.1
10°-20°	1731.6	4.4
20°-30°	3344.8	8.5
30°-40°	5433.0	13.9
40°-50°	7473.6	19.1
50°-60°	8823.8	22.5
60°-70°	7731.1	19.7
70°-80°	3690.9	9.4
80°-90°	491.1	1.3
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°	39162.0	100.0
0°-180°	39162.0	100.0



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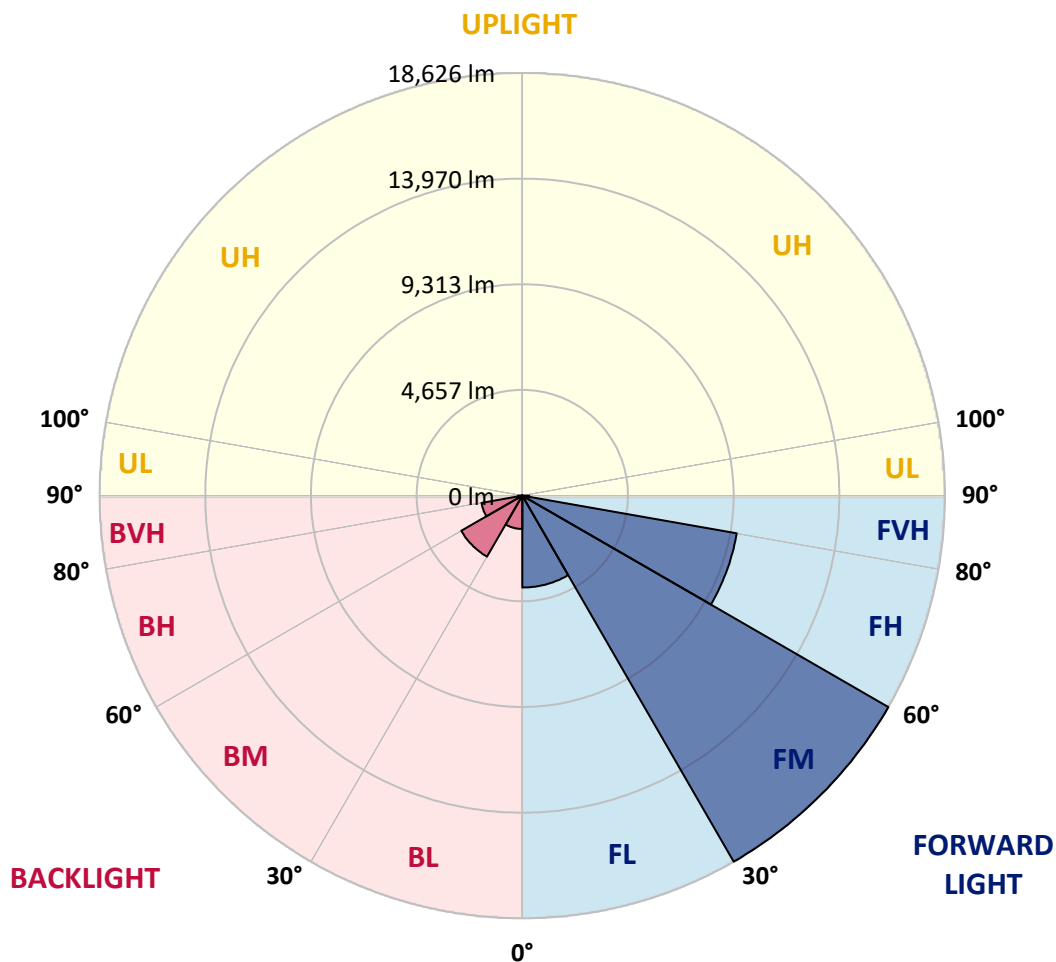
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4048.7	10.3			
FM	(30°-60°)	18626.3	47.6			
FH	(60°-80°)	9596.4	24.5			G4/12000
FVH	(80°-90°)	306.9	0.8			G3/500
BL	(0°-30°)	1469.8	3.8	B3/2500		
BM	(30°-60°)	3104.1	7.9	B3/5000		
BH	(60°-80°)	1825.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	184.2	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6
2.5°	4834.5	4802.7	4768.7	4675.2	4575.4	4462.8	4301.4	4146.3	3940.3	3933.9	3781.0
5°	6174.9	6153.6	6002.8	5915.7	5684.2	5376.2	5114.9	4709.2	4333.2	4288.6	3991.3
7.5°	7406.9	7324.0	7266.7	7109.5	6880.1	6485.0	5979.4	5431.4	4802.7	4743.2	4250.4
10°	8335.1	8326.6	8296.9	8160.9	7988.9	7595.9	7035.1	6249.2	5397.4	5280.6	4564.8
12.5°	9029.7	9036.1	9031.8	9029.7	8906.5	8573.0	7965.5	7137.1	5998.6	5915.7	4928.0
15°	9486.4	9550.1	9575.6	9681.8	9692.4	9469.4	8946.9	7995.2	6676.2	6553.0	5318.8
17.5°	9788.0	9819.9	9938.8	10119.4	10265.9	10225.6	9760.4	8789.7	7368.6	7162.6	5724.5
20°	10076.9	10132.1	10223.5	10469.9	10729.0	10848.0	10520.8	9603.2	8054.7	7923.0	6172.7
22.5°	10678.0	10756.6	10788.5	10913.8	11134.7	11345.0	11196.3	10382.8	8806.7	8628.2	6648.5
25°	11695.5	11778.3	11689.1	11659.4	11731.6	11835.7	11803.8	11117.7	9516.1	9261.2	7098.9
27.5°	13021.0	13031.6	12857.4	12691.7	12513.3	12460.2	12362.5	11769.8	10132.1	9919.7	7551.3
30°	14444.1	14393.1	14104.3	13804.8	13503.1	13205.8	12925.4	12398.6	10818.2	10573.9	7995.2
32.5°	15765.3	15737.7	15417.0	14951.8	14442.0	14161.6	13594.5	13033.7	11553.2	11317.4	8451.9
35°	16755.2	16795.5	16442.9	15935.3	15378.7	15130.2	14414.4	13700.7	12313.6	12056.6	8949.0
37.5°	17458.3	17437.0	17124.8	16685.1	16196.5	15979.9	15372.4	14429.3	13131.4	12885.0	9492.8
40°	17708.9	17696.2	17464.6	17143.9	16833.8	16757.3	16375.0	15215.2	14068.2	13779.3	10147.0
42.5°	17549.6	17577.2	17424.3	17337.2	17279.8	17335.1	17371.2	16245.4	15089.9	14824.3	10856.5
45°	17061.1	17046.2	17024.9	17167.3	17490.1	17853.4	18356.8	17218.2	16200.8	15988.4	11808.1
47.5°	16188.0	16294.2	16347.3	16740.3	17445.5	18305.8	19491.1	18522.5	17813.0	17628.2	13258.9
50°	14966.7	15051.6	15366.0	16064.8	17116.3	18475.7	20599.9	20655.1	20502.2	20155.9	14835.0
52.5°	13059.2	13190.9	13838.7	15119.6	16440.8	18405.6	21271.1	22484.0	22685.8	22426.6	16387.7
55°	10924.4	11109.2	11793.2	13473.4	15510.4	18023.3	21734.2	23543.9	24349.0	24108.9	17883.1
57.5°	8834.3	9029.7	9732.8	11359.9	13887.6	17177.9	22037.9	24724.9	26613.3	26301.0	19743.8
60°	6620.9	6824.8	7428.1	9104.0	11576.5	15525.3	21831.9	25748.8	28875.5	28741.7	21606.7
62.5°	4271.6	4496.8	5021.5	6408.5	8898.0	13267.4	20729.4	26313.8	30834.0	30672.5	22966.2
65°	2602.1	2627.6	2916.4	3978.5	6089.9	10272.3	18208.1	25564.0	31866.3	31817.4	23380.4
67.5°	1682.3	1722.7	1854.4	2383.3	3651.4	7135.0	14558.8	23089.4	31263.0	31246.0	22524.3
70°	1421.0	1433.8	1493.3	1608.0	2122.0	4326.9	10223.5	19144.8	28971.1	28971.1	20466.0
72.5°	1270.2	1287.2	1308.5	1344.6	1514.5	2451.3	6100.5	14902.9	25013.8	25179.5	17420.0
75°	1153.4	1149.2	1161.9	1168.3	1291.5	1601.6	3154.3	11022.1	19350.9	19019.5	12615.2
77.5°	987.7	994.1	987.7	1015.3	1140.7	1219.3	1601.6	7396.2	11727.4	11298.3	6332.0
80°	811.4	822.0	832.7	849.7	975.0	926.1	962.2	3371.0	4337.5	4246.1	1956.3
82.5°	609.6	624.5	641.5	681.8	766.8	611.8	607.5	1440.2	1565.5	1433.8	720.1
85°	246.4	291.0	439.7	480.1	482.2	335.6	373.8	601.1	639.4	624.5	282.5
87.5°	57.4	68.0	142.3	214.5	197.5	125.3	138.1	195.4	223.0	206.0	95.6
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°	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6	3638.6
2.5°	3710.9	3636.5	3509.1	3411.4	3341.3	3279.7	3241.4	3218.1	3209.6	3207.4	3209.6
5°	3836.2	3704.5	3502.7	3375.3	3305.2	3264.8	3241.4	3239.3	3241.4	3243.6	3237.2
7.5°	4008.2	3819.2	3555.8	3436.9	3383.7	3354.0	3343.4	3339.1	3341.3	3339.1	3339.1
10°	4237.7	3978.5	3659.9	3536.7	3492.1	3458.1	3441.1	3430.5	3422.0	3413.5	3409.2
12.5°	4490.4	4154.8	3772.5	3653.5	3589.8	3536.7	3498.5	3470.8	3451.7	3432.6	3428.4
15°	4772.9	4341.7	3897.8	3732.1	3640.8	3562.2	3496.3	3451.7	3417.7	3390.1	3388.0
17.5°	5042.7	4518.0	3982.8	3768.2	3634.4	3523.9	3436.9	3375.3	3332.8	3296.7	3292.4
20°	5331.6	4685.8	4021.0	3744.9	3570.7	3436.9	3322.1	3247.8	3198.9	3158.6	3152.2
22.5°	5622.6	4828.2	4016.7	3670.5	3460.2	3303.0	3182.0	3103.4	3046.0	3005.7	2990.8
25°	5900.8	4942.9	3963.6	3551.6	3307.3	3143.7	3020.5	2948.3	2897.3	2848.5	2848.5
27.5°	6151.5	5010.8	3863.8	3407.1	3150.1	2978.0	2880.3	2814.5	2767.7	2735.9	2716.8
30°	6397.9	5042.7	3727.9	3224.4	2984.4	2837.8	2759.3	2721.0	2678.5	2642.4	2638.2
32.5°	6618.8	5036.3	3557.9	3046.0	2827.2	2723.1	2691.3	2661.5	2616.9	2566.0	2553.2
35°	6833.3	4993.8	3356.1	2850.6	2695.5	2655.2	2663.7	2621.2	2540.5	2476.7	2466.1
37.5°	7067.0	4917.4	3135.2	2691.3	2585.1	2623.3	2644.5	2551.1	2419.4	2319.6	2296.2
40°	7336.8	4830.3	2905.8	2532.0	2498.0	2593.6	2593.6	2421.5	2241.0	2179.4	2162.4
42.5°	7653.3	4758.1	2714.6	2398.1	2425.8	2521.3	2510.7	2249.5	2175.1	2143.3	2134.8
45°	8154.6	4732.6	2517.1	2281.3	2366.3	2436.4	2349.3	2190.0	2147.5	2122.0	2113.5
47.5°	8946.9	4762.3	2342.9	2194.2	2298.3	2351.4	2168.7	2149.6	2119.9	2083.8	2079.5
50°	9681.8	4734.7	2219.7	2145.4	2238.8	2249.5	2094.4	2100.8	2083.8	2043.4	2034.9
52.5°	10282.9	4647.6	2141.1	2119.9	2187.9	2071.0	2024.3	2047.7	2041.3	1990.3	1981.8
55°	10943.5	4594.5	2102.9	2119.9	2153.9	1916.0	1958.5	1992.4	1983.9	1947.8	1945.7
57.5°	11744.3	4605.1	2075.3	2126.3	2119.9	1837.4	1892.6	1933.0	1930.8	1920.2	1920.2
60°	12564.3	4609.4	2032.8	2124.1	2079.5	1775.8	1824.6	1882.0	1886.2	1892.6	1892.6
62.5°	12836.2	4424.6	1950.0	2085.9	1990.3	1716.3	1760.9	1839.5	1835.3	1852.2	1854.4
65°	12328.5	3912.7	1826.8	1998.8	1875.6	1673.8	1712.1	1784.3	1760.9	1805.5	1814.0
67.5°	11221.8	3237.2	1635.6	1841.6	1748.2	1629.2	1680.2	1707.8	1665.3	1752.4	1754.5
70°	9698.8	2527.7	1393.4	1618.6	1603.7	1582.5	1654.7	1612.2	1552.7	1658.9	1637.7
72.5°	8110.0	1930.8	1113.0	1323.3	1410.4	1512.4	1610.1	1489.0	1406.2	1438.0	1399.8
75°	6092.0	1427.4	894.3	1036.6	1174.6	1412.6	1569.7	1340.3	1212.9	1183.1	1174.6
77.5°	3105.5	932.5	669.1	775.3	881.5	1276.6	1514.5	1166.2	1004.7	958.0	936.7
80°	1108.8	579.9	471.6	535.3	594.8	1098.2	1323.3	964.4	779.6	771.1	779.6
82.5°	514.0	373.8	316.5	350.5	352.6	732.8	1009.0	720.1	592.6	900.6	760.4
85°	220.9	186.9	178.4	174.2	161.4	327.1	567.1	386.6	603.3	269.8	248.5
87.5°	65.8	74.3	65.8	48.9	36.1	36.1	57.4	21.2	14.9	10.6	10.6
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)