

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: P532139

Luminaire Tested: **GALN-SA7C-727-U-T2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-727-U-T2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24158 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

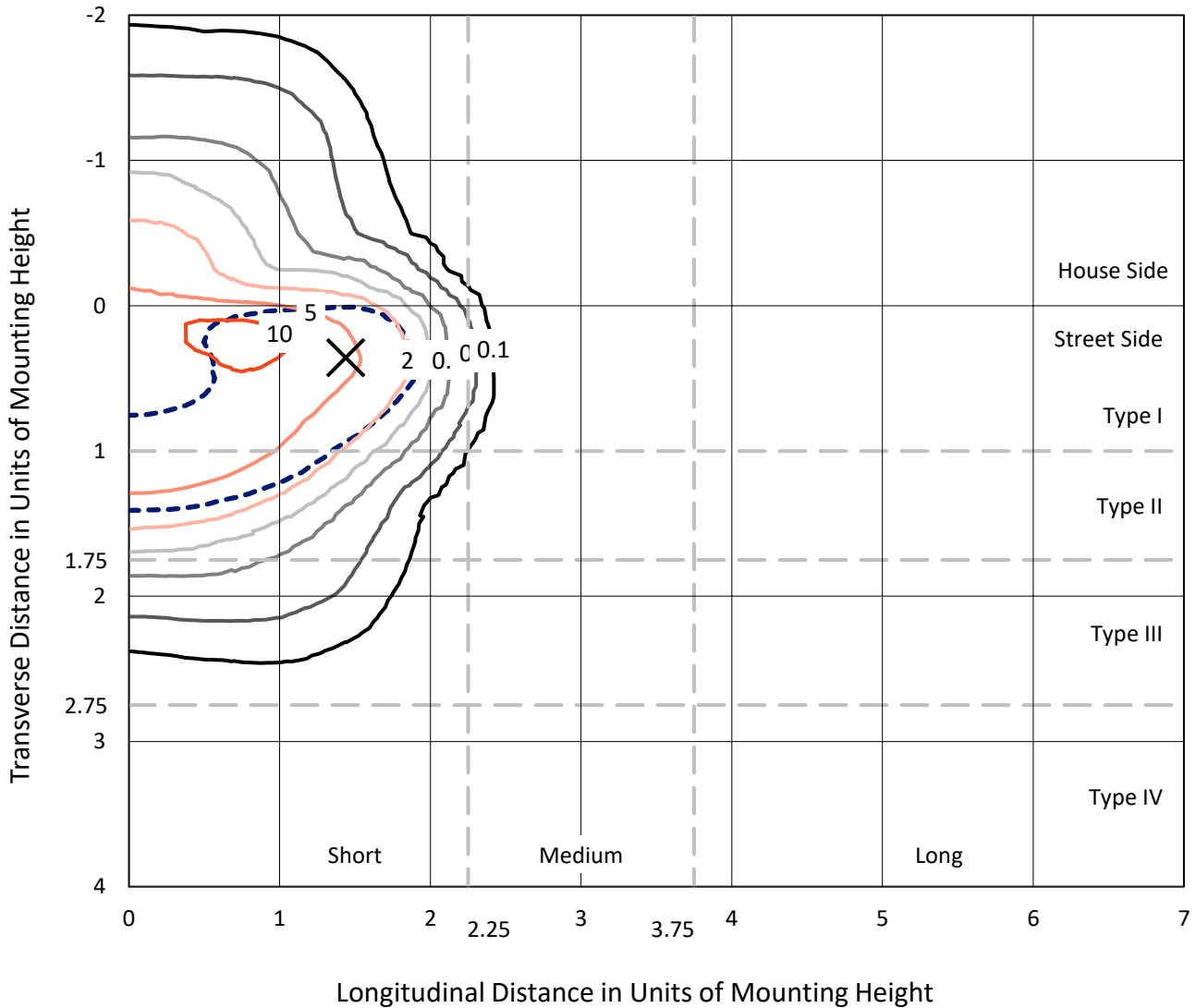
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

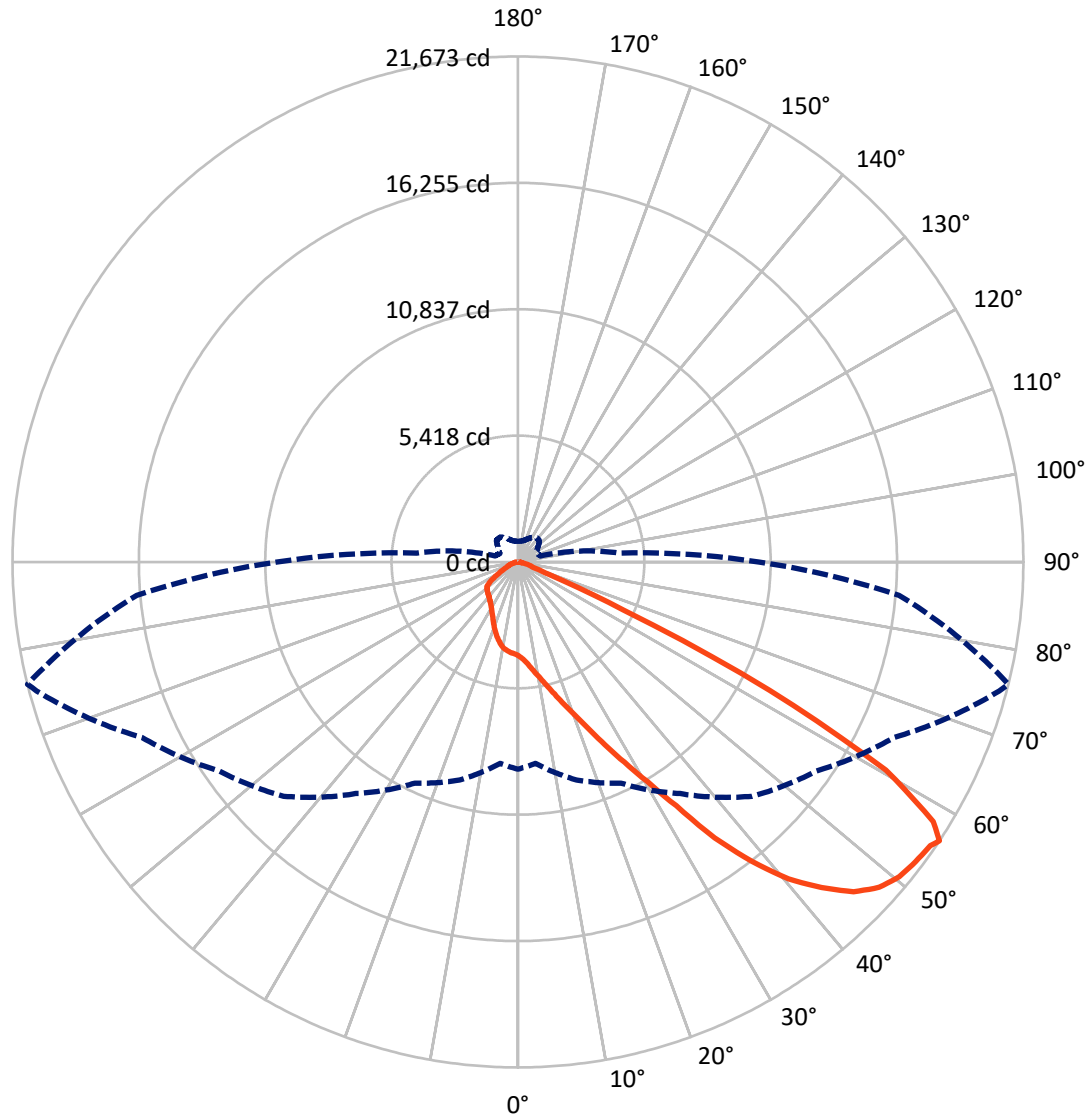
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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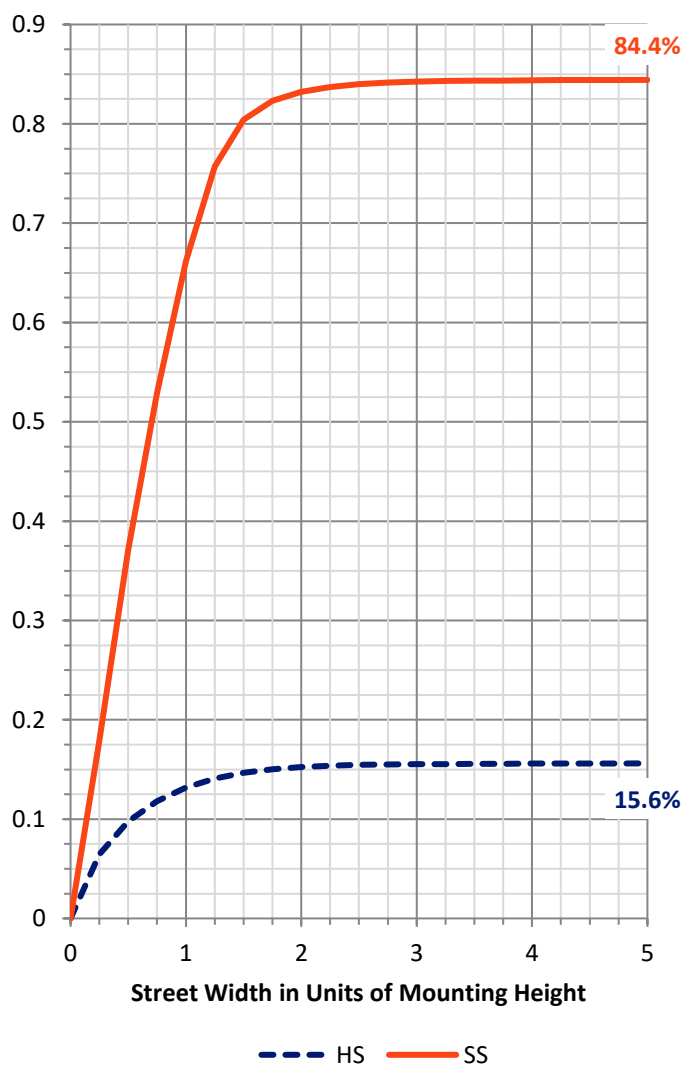
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3795.1	0.0	3795.1
	% Fixture	15.7	0.0	15.7
<b>Street Side</b>	Lumens	20362.9	0.0	20362.9
	% Fixture	84.3	0.0	84.3
<b>Total</b>	Lumens	24158.0	0.0	24158.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.1	1.7
10°-20°	1301.3	5.4
20°-30°	2359.7	9.8
30°-40°	4069.4	16.8
40°-50°	6610.9	27.4
50°-60°	6968.1	28.8
60°-70°	2129.1	8.8
70°-80°	272.9	1.1
80°-90°	41.5	0.2
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°	24158.0	100.0
0°-180°	24158.0	100.0

**Coefficient of Utilization**

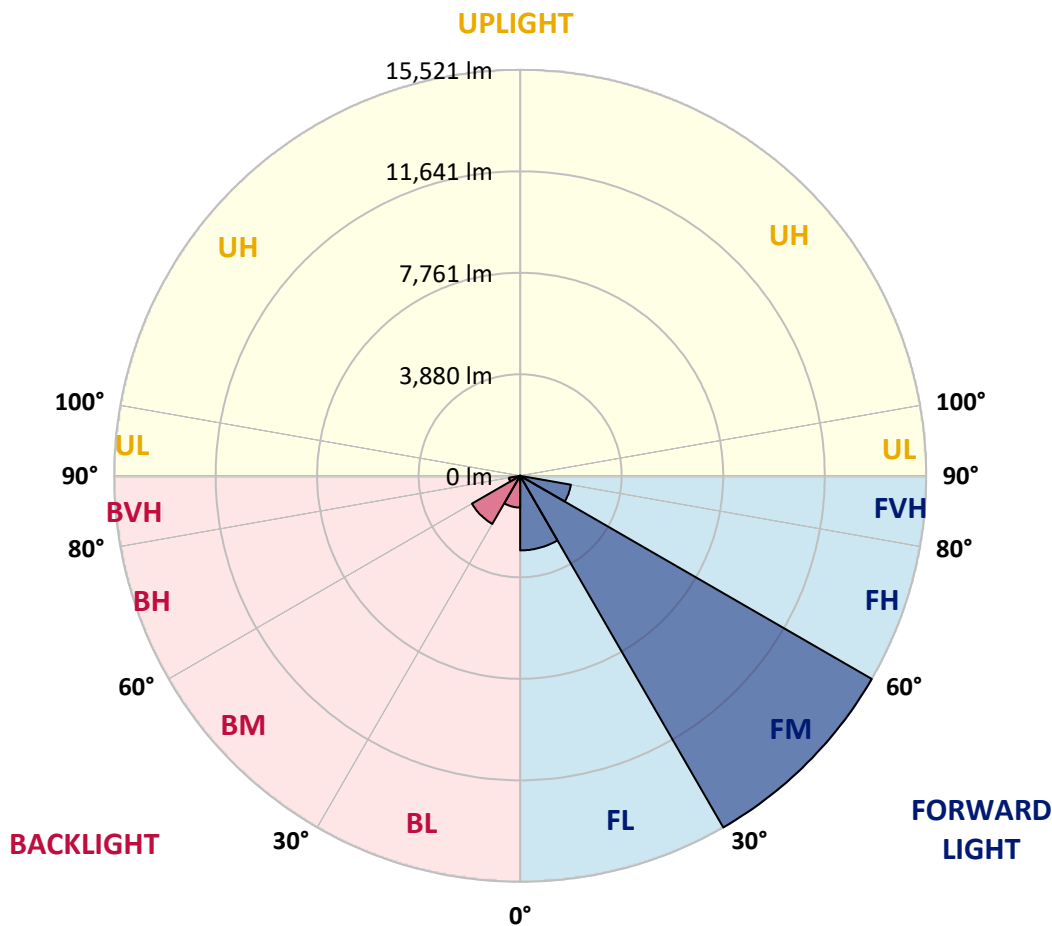


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2852.1	11.8			
FM (30°-60°)	15521.5	64.2			
FH (60°-80°)	1969.0	8.2			G2/5000
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	1214.1	5.0	B3/2500		
BM (30°-60°)	2126.9	8.8	B2/2500		
BH (60°-80°)	433.0	1.8	B1/500		G1/500
BVH (80°-90°)	21.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1
2.5°	4631.2	4524.3	4528.8	4519.9	4506.5	4457.5	4310.6	4288.3	4190.4	4163.6	4074.6
5°	5187.8	5094.3	5147.8	5067.6	4991.9	4947.4	4706.9	4595.6	4439.7	4381.8	4257.1
7.5°	5535.2	5490.7	5472.8	5477.3	5406.0	5294.7	5187.8	4942.9	4733.6	4689.1	4426.4
10°	5704.4	5677.7	5704.4	5691.0	5722.2	5735.6	5548.5	5401.6	5094.3	5018.6	4608.9
12.5°	5744.5	5797.9	5820.2	5878.1	5953.8	6082.9	6069.6	5869.2	5459.5	5410.5	4889.5
15°	5842.4	5887.0	5864.7	5958.2	6100.7	6318.9	6434.7	6403.5	5962.7	5873.6	5214.6
17.5°	5931.5	5851.4	5927.1	6114.1	6256.6	6590.6	6871.1	7000.2	6510.4	6408.0	5512.9
20°	6051.7	6029.5	6016.1	6109.6	6363.5	6808.8	7365.4	7601.4	7124.9	7018.1	5940.4
22.5°	6416.9	6421.3	6412.4	6274.4	6457.0	6960.2	7797.4	8380.7	7859.7	7770.6	6425.8
25°	6897.8	6839.9	6795.4	6684.1	6661.8	7098.2	8233.8	9333.7	8741.4	8679.1	6951.3
27.5°	7405.5	7405.5	7271.9	7169.5	7027.0	7441.1	8634.5	10259.9	9805.7	9721.1	7409.9
30°	7957.7	7988.8	7971.0	7752.8	7663.8	7815.2	9044.2	11444.4	11025.8	10919.0	8167.0
32.5°	8772.6	8705.8	8781.5	8598.9	8336.2	8469.8	9689.9	12504.3	12611.1	12459.7	9160.0
35°	9850.2	9810.1	9761.2	9462.8	9151.1	9258.0	10602.8	13809.0	14601.7	14526.0	10161.9
37.5°	10816.5	10794.3	10754.2	10549.4	10188.7	10317.8	11640.4	15167.2	16543.2	16293.8	11578.0
40°	11831.8	11952.1	11822.9	11640.4	11310.8	11595.8	12860.5	15973.2	18177.5	17874.7	12660.1
42.5°	13207.8	13114.3	13172.2	12838.2	12660.1	12971.8	14085.1	16779.2	19446.6	19085.9	13809.0
45°	14672.9	14677.4	14521.5	14414.6	13951.5	14289.9	14837.7	17224.5	20457.5	20176.9	14677.4
47.5°	15612.5	15608.1	15777.3	15946.5	15470.0	15136.0	15349.8	17647.6	20978.5	20849.3	14993.5
50°	15465.6	15510.1	15728.3	16360.6	16610.0	16160.2	15830.7	17522.9	21214.5	21201.1	15265.2
52.5°	13452.8	13599.7	13964.9	14877.8	16133.5	16690.2	16333.9	17754.4	21330.3	21352.5	15670.4
55°	10242.1	10322.3	11016.9	12125.7	13515.1	15421.0	16133.5	17937.0	21419.3	21459.4	16160.2
56°	8883.9	8670.2	9672.1	10460.3	12121.3	14205.3	15625.9	17794.5	21365.9	21673.2	16405.2
57.5°	6706.3	6563.8	7374.3	8358.4	9957.1	12156.9	14049.5	17122.1	21005.2	21000.7	16053.4
60°	4079.0	3936.5	4560.0	5138.9	6033.9	7485.6	9494.0	13635.3	17758.9	18133.0	12998.6
62.5°	2426.9	2516.0	3130.5	3482.3	3771.8	3923.2	4911.8	8104.6	11849.7	12116.8	8064.5
65°	1616.5	1647.6	2110.8	2689.7	2818.8	2244.4	1999.4	3281.9	5138.9	4974.1	3326.5
67.5°	997.5	1068.7	1416.1	2021.7	2239.9	1638.7	948.5	1224.6	1416.1	1416.1	961.9
70°	605.6	641.2	944.1	1376.0	1536.3	1055.4	690.2	690.2	681.3	668.0	574.4
72.5°	289.5	311.7	480.9	708.0	721.4	556.6	534.4	583.4	570.0	565.5	476.5
75°	124.7	133.6	169.2	222.7	253.8	236.0	325.1	418.6	431.9	418.6	342.9
77.5°	40.1	44.5	62.3	80.2	84.6	102.4	138.0	173.7	200.4	187.0	169.2
80°	4.5	8.9	17.8	40.1	62.3	80.2	102.4	115.8	129.1	129.1	120.2
82.5°	4.5	4.5	17.8	35.6	57.9	75.7	98.0	111.3	129.1	133.6	124.7
85°	0.0	4.5	13.4	31.2	49.0	49.0	44.5	44.5	31.2	31.2	31.2
87.5°	0.0	0.0	4.5	4.5	4.5	8.9	8.9	8.9	8.9	8.9	8.9
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°	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1	4021.1
2.5°	4056.8	4047.9	3927.6	3851.9	3811.8	3731.7	3682.7	3647.1	3620.4	3589.2	3593.6
5°	4110.2	4079.0	3878.6	3740.6	3575.8	3486.8	3411.1	3348.7	3308.6	3299.7	3281.9
7.5°	4261.6	4096.8	3794.0	3544.7	3335.4	3246.3	3179.5	3139.4	3157.2	3117.2	3148.3
10°	4377.4	4132.5	3691.6	3330.9	3121.6	3054.8	3019.2	3050.4	3094.9	3077.1	3054.8
12.5°	4519.9	4168.1	3526.8	3126.1	2930.1	2881.1	2943.5	3001.4	3090.4	3126.1	3081.5
15°	4680.2	4208.2	3317.5	2890.1	2765.4	2805.4	2912.3	3014.7	3103.8	3148.3	3175.0
17.5°	4876.1	4194.8	3112.7	2703.0	2609.5	2725.3	2854.4	2947.9	3081.5	3148.3	3130.5
20°	5058.7	4150.3	2885.6	2516.0	2520.4	2627.3	2734.2	2885.6	2956.8	3045.9	3014.7
22.5°	5232.4	4070.1	2649.6	2386.9	2386.9	2551.6	2605.1	2703.0	2765.4	2809.9	2805.4
25°	5477.3	3918.7	2453.6	2262.2	2315.6	2422.5	2467.0	2498.2	2471.5	2507.1	2511.5
27.5°	5651.0	3762.9	2293.3	2150.8	2248.8	2329.0	2315.6	2297.8	2235.4	2186.5	2217.6
30°	5838.0	3580.3	2155.3	2075.1	2128.6	2199.8	2146.4	2092.9	1995.0	1914.8	1919.3
32.5°	6105.2	3495.7	2035.1	1986.1	2057.3	2066.2	2008.3	1928.2	1830.2	1754.5	1750.1
35°	6603.9	3442.2	1932.6	1928.2	1941.5	1946.0	1888.1	1790.1	1750.1	1687.7	1710.0
37.5°	7102.7	3415.5	1861.4	1843.6	1839.1	1843.6	1776.8	1683.3	1759.0	1754.5	1763.4
40°	7739.5	3535.7	1759.0	1736.7	1741.2	1741.2	1656.5	1629.8	1763.4	1776.8	1781.2
42.5°	8385.2	3687.2	1692.2	1620.9	1638.7	1638.7	1594.2	1563.0	1656.5	1567.5	1554.1
45°	8946.2	3909.8	1620.9	1505.1	1549.7	1571.9	1558.6	1505.1	1447.3	1295.8	1295.8
47.5°	9128.8	4105.7	1536.3	1393.8	1429.4	1527.4	1487.3	1376.0	1273.6	1148.9	1140.0
50°	9449.4	4319.5	1469.5	1264.7	1340.4	1460.6	1420.5	1309.2	1193.4	1104.4	1108.8
52.5°	9779.0	4564.4	1344.8	1113.3	1206.8	1407.2	1407.2	1282.5	1104.4	1042.0	1033.1
55°	10273.3	4555.5	1122.2	912.9	1077.6	1327.0	1349.3	1148.9	988.6	939.6	939.6
56°	10344.5	4350.7	1010.9	855.0	1019.8	1304.8	1309.2	1113.3	944.1	890.6	890.6
57.5°	9810.1	3927.6	886.2	783.7	948.5	1264.7	1269.1	1082.1	908.4	832.7	823.8
60°	7548.0	2658.5	739.2	699.1	859.4	1140.0	1162.3	984.1	797.1	739.2	734.8
62.5°	4261.6	1474.0	650.2	632.3	739.2	970.8	1037.6	859.4	676.9	645.7	654.6
65°	1946.0	810.5	547.7	512.1	596.7	748.1	837.2	708.0	556.6	521.0	521.0
67.5°	712.5	552.2	467.6	405.2	418.6	485.4	543.3	458.7	369.6	316.2	329.5
70°	507.7	463.1	409.7	351.8	325.1	316.2	311.7	258.3	182.6	142.5	151.4
72.5°	409.7	383.0	342.9	298.4	253.8	213.7	182.6	133.6	84.6	57.9	53.4
75°	293.9	280.5	249.4	213.7	178.1	151.4	124.7	84.6	44.5	22.3	22.3
77.5°	151.4	151.4	147.0	133.6	111.3	89.1	71.2	49.0	26.7	8.9	8.9
80°	115.8	124.7	129.1	115.8	102.4	80.2	57.9	35.6	17.8	4.5	4.5
82.5°	111.3	129.1	138.0	120.2	102.4	75.7	57.9	35.6	17.8	4.5	4.5
85°	26.7	26.7	40.1	44.5	57.9	62.3	49.0	31.2	13.4	4.5	4.5
87.5°	8.9	8.9	8.9	8.9	8.9	8.9	4.5	4.5	4.5	4.5	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)