

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: P532143

Luminaire Tested: **GALN-SA7C-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532143  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
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-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24456 lumens  
Efficiency: N/A  
Efficacy: 64.9 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

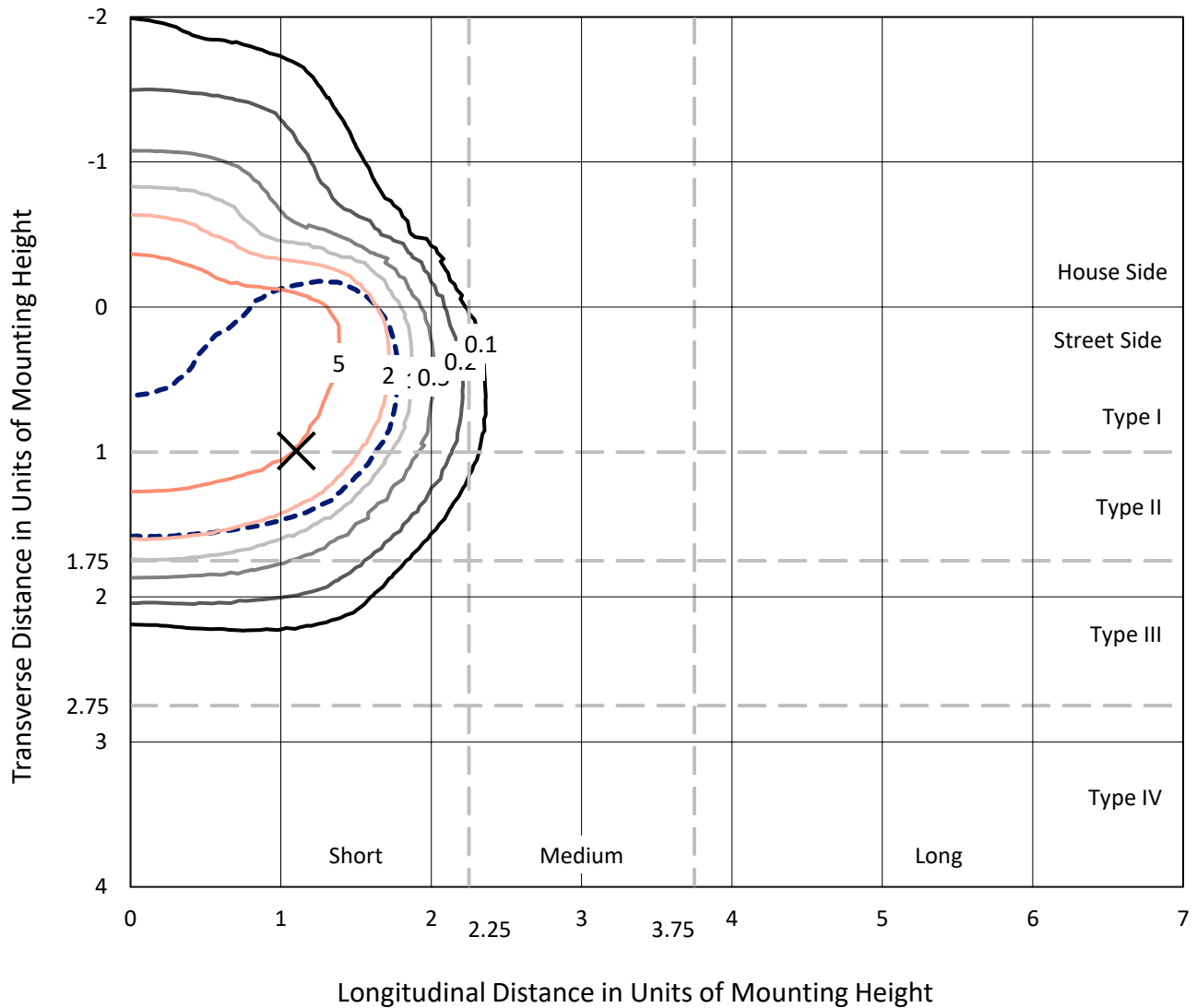
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

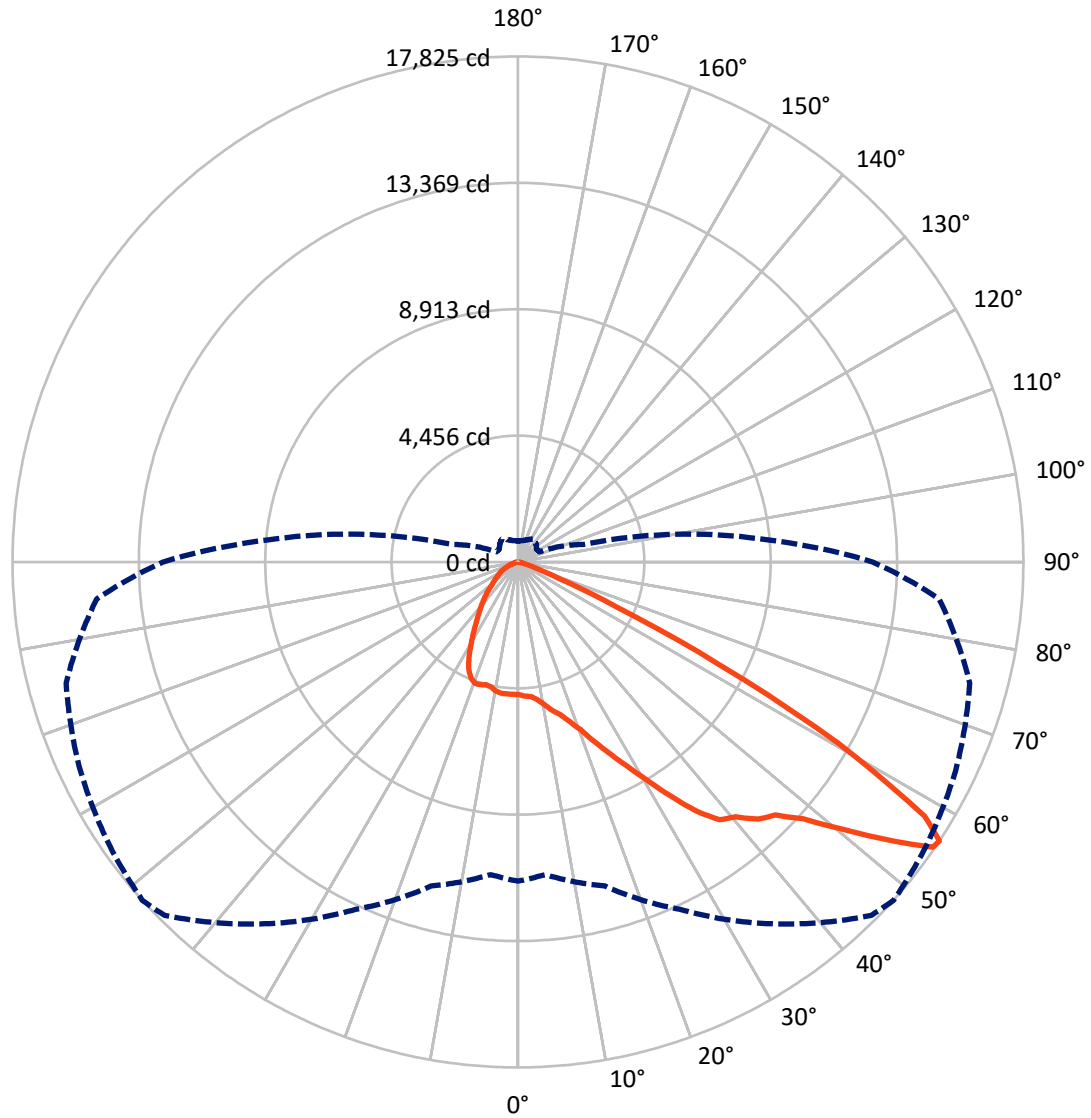
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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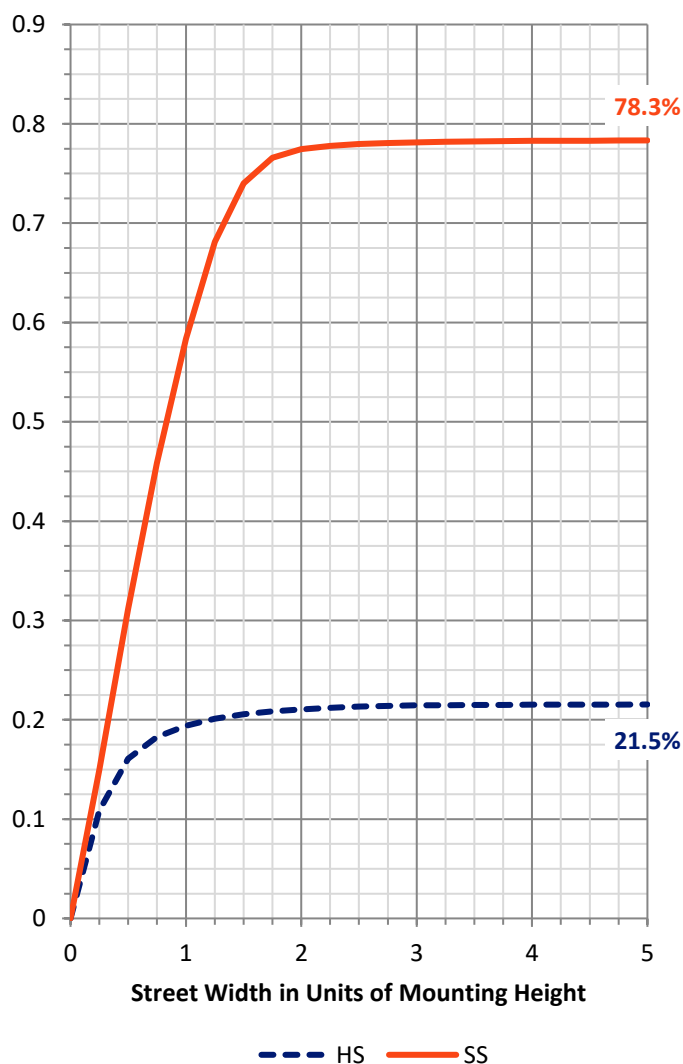
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5318.7	0.0	5318.7
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	19137.3	0.0	19137.3
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	24456.0	0.0	24456.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	455.0	1.9
10°-20°	1454.2	5.9
20°-30°	2637.5	10.8
30°-40°	4143.1	16.9
40°-50°	6044.0	24.7
50°-60°	7281.8	29.8
60°-70°	2132.0	8.7
70°-80°	270.5	1.1
80°-90°	37.9	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°	24456.0	100.0
0°-180°	24456.0	100.0

**Coefficient of Utilization**

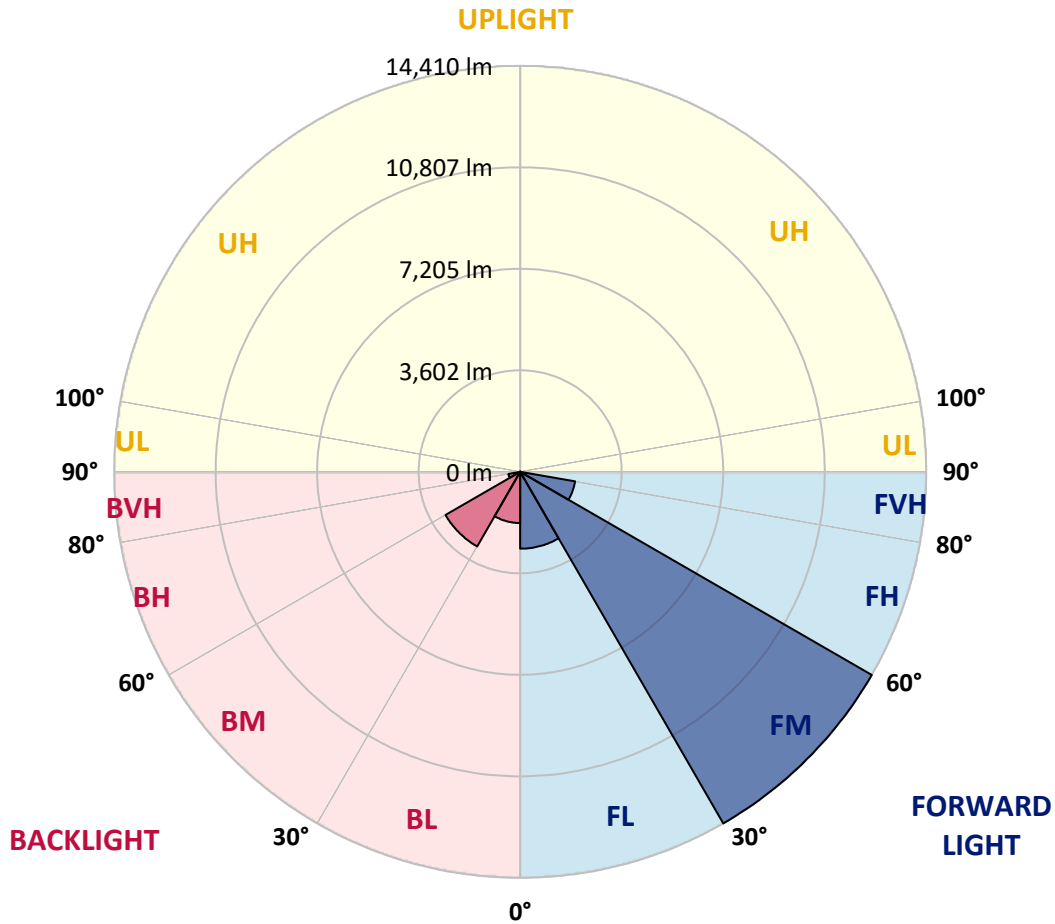


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2728.8	11.2			
FM (30°-60°)	14409.5	58.9			
FH (60°-80°)	1979.9	8.1			G2/5000
FVH (80°-90°)	19.1	0.1			G1/100
BL (0°-30°)	1817.9	7.4	B3/2500		
BM (30°-60°)	3059.3	12.5	B3/5000		
BH (60°-80°)	422.6	1.7	B1/500		G1/500
BVH (80°-90°)	18.9	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°	48°	55°	65°	75°	85°
0°	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1
2.5°	4755.7	4733.4	4733.4	4697.8	4737.9	4720.1	4733.4	4688.9	4733.4	4666.7	4720.1
5°	4778.0	4782.4	4764.6	4786.9	4786.9	4813.6	4769.1	4809.1	4831.4	4782.4	4760.2
7.5°	4893.8	4902.7	4898.2	4880.4	4916.0	4911.6	4907.1	4875.9	4884.8	4867.0	4840.3
10°	5120.9	5116.4	5138.7	5094.1	5067.4	5098.6	5107.5	5058.5	5022.9	5009.5	4924.9
12.5°	5450.4	5396.9	5365.8	5321.2	5334.6	5290.1	5370.2	5285.6	5267.8	5187.6	5103.0
15°	5717.5	5708.6	5713.1	5641.8	5561.7	5579.5	5579.5	5535.0	5508.3	5410.3	5290.1
17.5°	6265.2	6078.2	6118.3	6029.2	5962.5	5958.0	5917.9	5926.8	5855.6	5650.7	5468.2
20°	6692.7	6612.6	6550.2	6398.8	6296.4	6327.6	6309.8	6265.2	6243.0	5975.8	5717.5
22.5°	7075.7	7102.4	7000.0	6959.9	6817.4	6830.8	6866.4	6826.3	6657.1	6381.0	5998.1
25°	7614.5	7583.3	7445.3	7396.3	7262.7	7311.7	7449.7	7418.6	7311.7	6813.0	6216.3
27.5°	8251.2	8144.4	8171.1	7948.5	7819.3	7957.4	8122.1	8278.0	7975.2	7320.6	6474.5
30°	8701.0	8589.7	8580.8	8571.9	8540.7	8701.0	8892.5	9035.0	8790.1	7828.2	6902.0
32.5°	8923.6	8950.4	9026.1	8999.3	9271.0	9600.5	9800.9	10005.7	9698.4	8656.5	7467.5
35°	9515.9	9346.7	9515.9	9533.7	9814.2	10513.3	10767.1	11257.0	11181.3	9827.6	8157.7
37.5°	9863.2	9849.8	9872.1	10041.3	10312.9	11176.8	11537.5	11916.0	11773.5	10531.1	9017.2
40°	10437.6	10473.3	10468.8	10597.9	10896.3	11675.5	11822.5	12129.7	12143.1	11506.3	10281.8
42.5°	11359.4	11216.9	11123.4	11257.0	11675.5	12107.5	12401.4	12339.0	12779.9	12690.8	11907.1
45°	12187.6	12272.2	12134.2	12356.8	12508.2	12739.8	12730.9	12864.5	13425.5	13848.6	13131.6
47.5°	12962.4	13015.9	13082.7	13234.1	13563.6	13599.2	13523.5	13465.6	14240.4	14676.8	14080.1
50°	13425.5	13474.5	13786.2	14057.8	14672.4	14752.5	14797.0	14650.1	15175.5	15224.5	14975.1
52.5°	13300.9	13354.3	13790.7	14685.7	15665.4	16400.1	16266.5	16017.1	15986.0	16177.4	15803.4
55°	12196.5	12147.5	12748.7	14142.5	15977.1	17740.4	17758.2	17495.5	16992.3	16863.2	15678.7
56°	11257.0	11065.5	11831.4	13514.6	15576.3	17624.6	17825.0	17544.5	17072.5	16493.6	14908.4
57.5°	9222.0	9404.6	10166.0	11559.8	14191.4	16791.9	16907.7	16840.9	16484.7	15514.0	13118.3
60°	5085.2	5405.8	6078.2	7783.7	10103.7	12886.7	12980.2	13523.5	13590.3	11880.4	9026.1
62.5°	2159.7	2124.0	2823.1	4078.9	5753.2	7779.2	7952.9	8509.5	8611.9	6848.6	4528.6
65°	877.2	926.2	1278.0	2052.8	3041.3	3544.5	3789.4	3972.0	4310.4	2827.6	1669.8
67.5°	578.9	574.4	752.5	1171.1	1638.7	1580.8	1580.8	1669.8	1545.2	1153.3	721.4
70°	414.1	427.5	538.8	810.4	1019.7	757.0	725.8	694.7	788.2	761.4	583.3
72.5°	271.6	289.4	360.7	485.4	529.9	414.1	414.1	498.7	650.1	614.5	476.5
75°	178.1	182.6	222.6	280.5	262.7	213.7	236.0	334.0	472.0	454.2	338.4
77.5°	120.2	124.7	151.4	182.6	146.9	120.2	129.1	169.2	231.6	231.6	178.1
80°	44.5	49.0	62.3	57.9	66.8	84.6	93.5	115.8	138.0	138.0	120.2
82.5°	0.0	4.5	13.4	31.2	49.0	66.8	75.7	89.1	102.4	115.8	111.3
85°	0.0	4.5	13.4	22.3	35.6	40.1	44.5	31.2	26.7	26.7	22.3
87.5°	0.0	0.0	4.5	4.5	4.5	4.5	4.5	4.5	8.9	4.5	4.5
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1	4671.1
2.5°	4671.1	4666.7	4666.7	4653.3	4680.0	4666.7	4675.6	4671.1	4613.2	4657.7	4626.6
5°	4720.1	4751.3	4702.3	4693.4	4657.7	4671.1	4671.1	4626.6	4666.7	4662.2	4653.3
7.5°	4844.8	4791.3	4737.9	4684.5	4675.6	4662.2	4613.2	4595.4	4626.6	4591.0	4644.4
10°	4898.2	4907.1	4827.0	4755.7	4688.9	4595.4	4528.6	4488.5	4439.6	4493.0	4524.2
12.5°	5143.1	5054.1	4916.0	4804.7	4577.6	4484.1	4417.3	4399.5	4484.1	4501.9	4470.7
15°	5227.7	5214.4	5036.2	4786.9	4550.9	4439.6	4452.9	4417.3	4426.2	4381.7	4390.6
17.5°	5401.4	5250.0	5040.7	4729.0	4546.4	4519.7	4439.6	4297.1	4216.9	4181.3	4212.5
20°	5592.9	5445.9	5143.1	4751.3	4586.5	4515.3	4252.5	4078.9	3914.1	3825.1	3829.5
22.5°	5762.1	5579.5	5098.6	4760.2	4622.1	4328.2	4012.1	3669.2	3464.4	3326.3	3330.8
25°	5966.9	5708.6	5116.4	4778.0	4528.6	4029.9	3575.7	3241.7	2996.8	2903.3	2934.5
27.5°	6082.7	5788.8	5214.4	4818.1	4283.7	3606.9	3117.0	2805.3	2662.8	2618.3	2613.9
30°	6430.0	5966.9	5334.6	4737.9	3874.0	3152.7	2698.5	2507.0	2369.0	2328.9	2337.8
32.5°	6946.5	6292.0	5490.4	4528.6	3455.5	2747.4	2426.8	2284.3	2155.2	2079.5	2070.6
35°	7378.5	6848.6	5655.2	4203.6	2970.1	2435.7	2235.4	2057.2	1861.3	1776.7	1754.4
37.5°	8202.3	7476.4	5619.6	3713.7	2507.0	2204.2	2030.5	1812.3	1643.1	1527.3	1514.0
40°	9297.7	8211.2	5445.9	3117.0	2164.1	1999.4	1812.3	1603.0	1393.8	1295.8	1286.9
42.5°	10629.1	9110.7	5129.8	2511.4	1821.2	1794.5	1625.3	1384.9	1197.8	1126.6	1131.0
45°	11711.2	9881.0	4809.1	2017.2	1567.4	1594.1	1447.2	1220.1	1091.0	1033.1	1033.1
47.5°	12673.0	10402.0	4461.8	1665.4	1331.4	1393.8	1264.6	1131.0	1019.7	975.2	966.3
50°	13599.2	10931.9	4114.5	1349.2	1135.5	1197.8	1184.5	1077.6	988.5	935.1	939.6
52.5°	14178.1	11016.5	3673.7	1104.3	993.0	1064.2	1108.8	1010.8	912.8	881.7	872.8
55°	13470.1	9925.5	2849.9	908.4	841.6	935.1	1019.7	908.4	832.7	779.3	774.8
56°	12517.1	8874.7	2382.3	837.1	797.1	899.5	988.5	868.3	783.7	752.5	730.3
57.5°	10597.9	7262.7	1758.9	743.6	739.2	837.1	939.6	828.2	730.3	703.6	703.6
60°	6608.1	4087.8	1064.2	623.4	641.2	743.6	846.1	739.2	650.1	650.1	663.5
62.5°	3010.2	1701.0	645.7	529.9	552.2	641.2	752.5	667.9	619.0	667.9	676.8
65°	1024.2	734.7	467.6	423.0	436.4	529.9	645.7	676.8	672.4	703.6	721.4
67.5°	574.4	472.0	391.9	351.8	342.9	391.9	529.9	676.8	650.1	636.8	645.7
70°	485.4	400.8	347.3	311.7	298.3	316.2	409.7	512.1	458.7	445.3	436.4
72.5°	391.9	334.0	302.8	280.5	240.5	204.8	187.0	195.9	218.2	231.6	253.8
75°	276.1	253.8	253.8	227.1	173.7	129.1	102.4	84.6	57.9	40.1	44.5
77.5°	155.9	155.9	160.3	138.0	111.3	84.6	62.3	44.5	22.3	8.9	4.5
80°	106.9	115.8	124.7	111.3	93.5	75.7	53.4	31.2	13.4	0.0	0.0
82.5°	106.9	120.2	129.1	111.3	93.5	71.2	53.4	31.2	13.4	4.5	0.0
85°	22.3	26.7	31.2	35.6	53.4	53.4	40.1	26.7	13.4	4.5	0.0
87.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	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)