

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: P531351

Luminaire Tested: **GALN-SA6C-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531351  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6C-827-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17888 lumens  
Efficiency: N/A  
Efficacy: 55.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

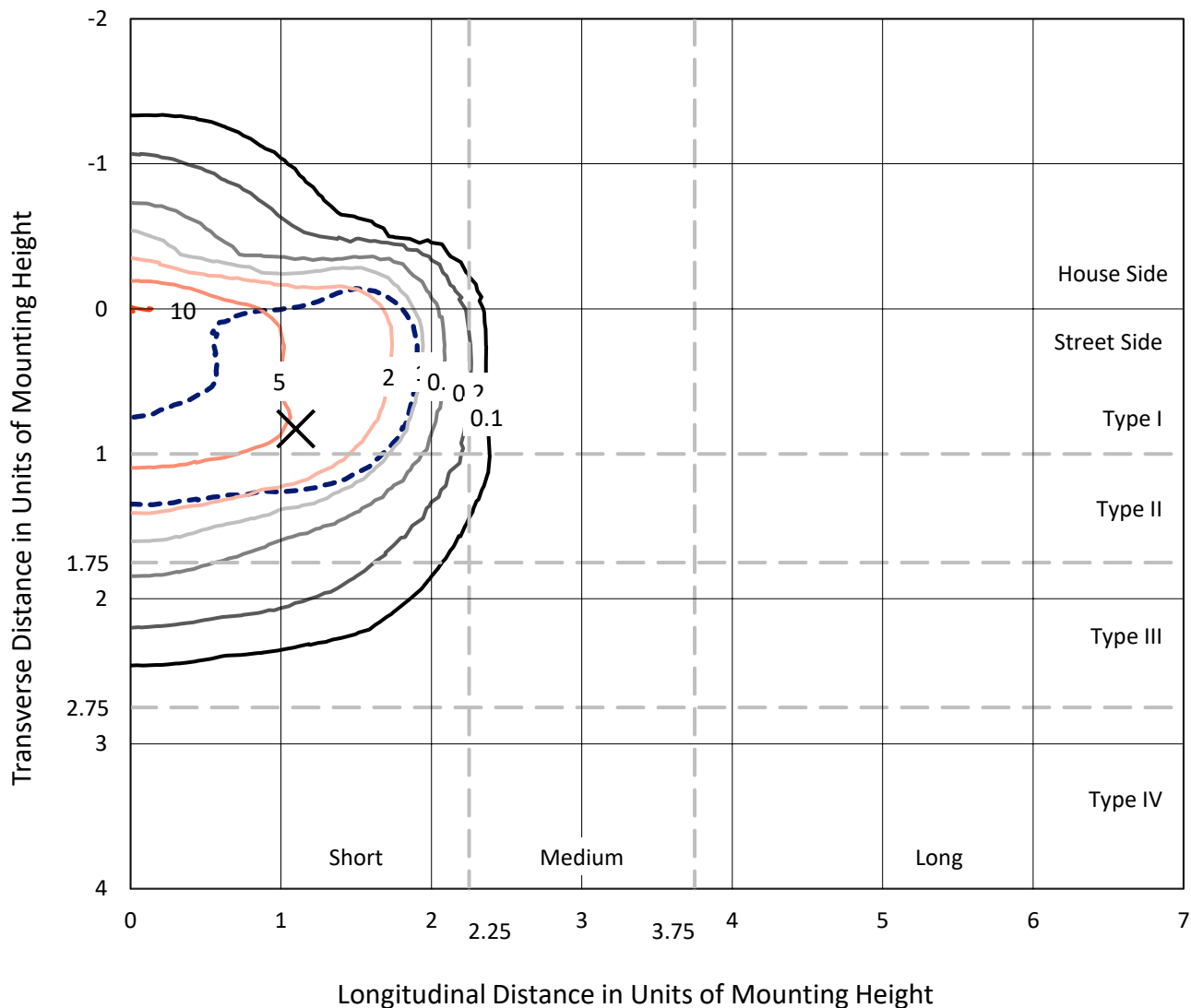
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

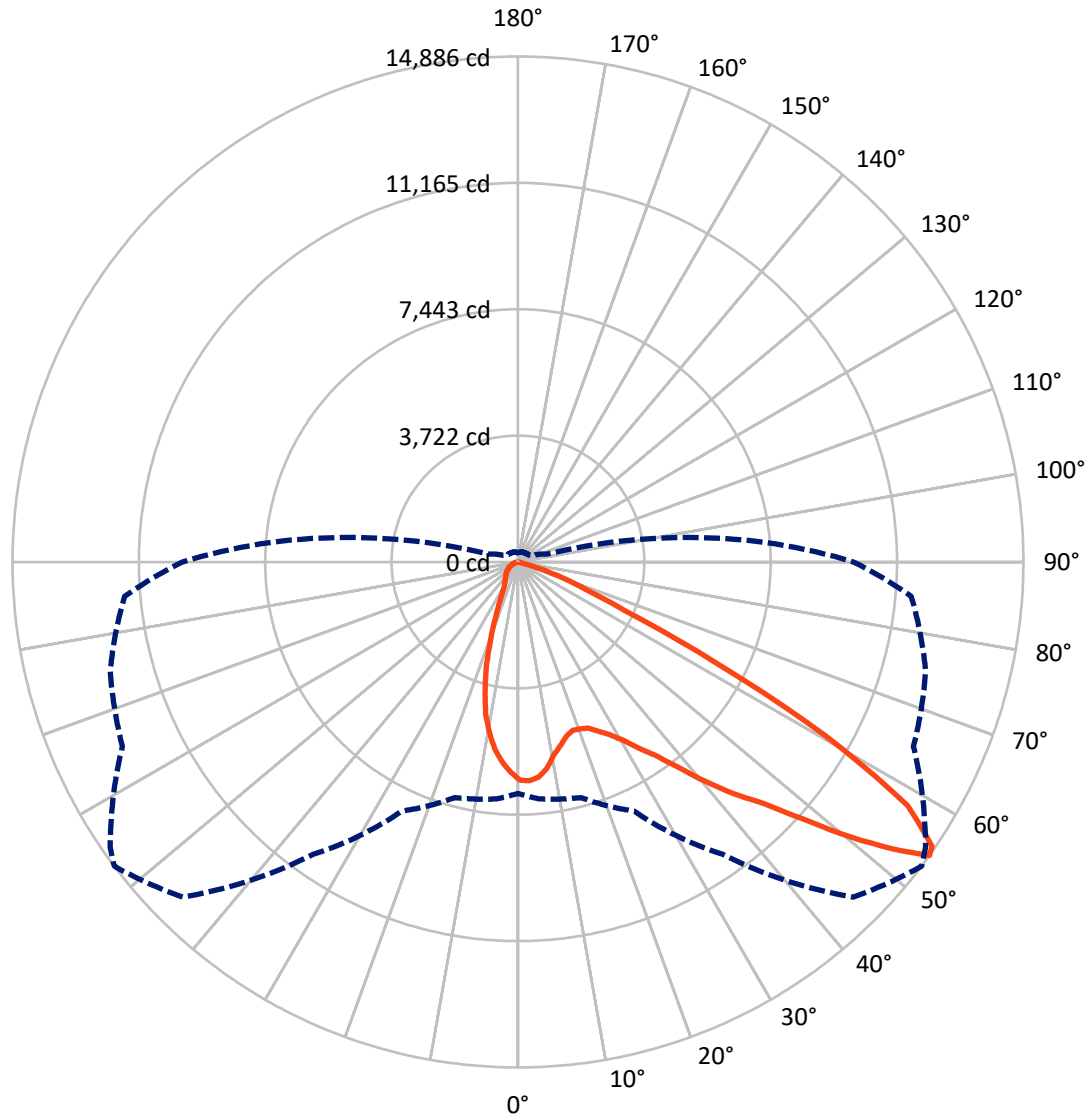
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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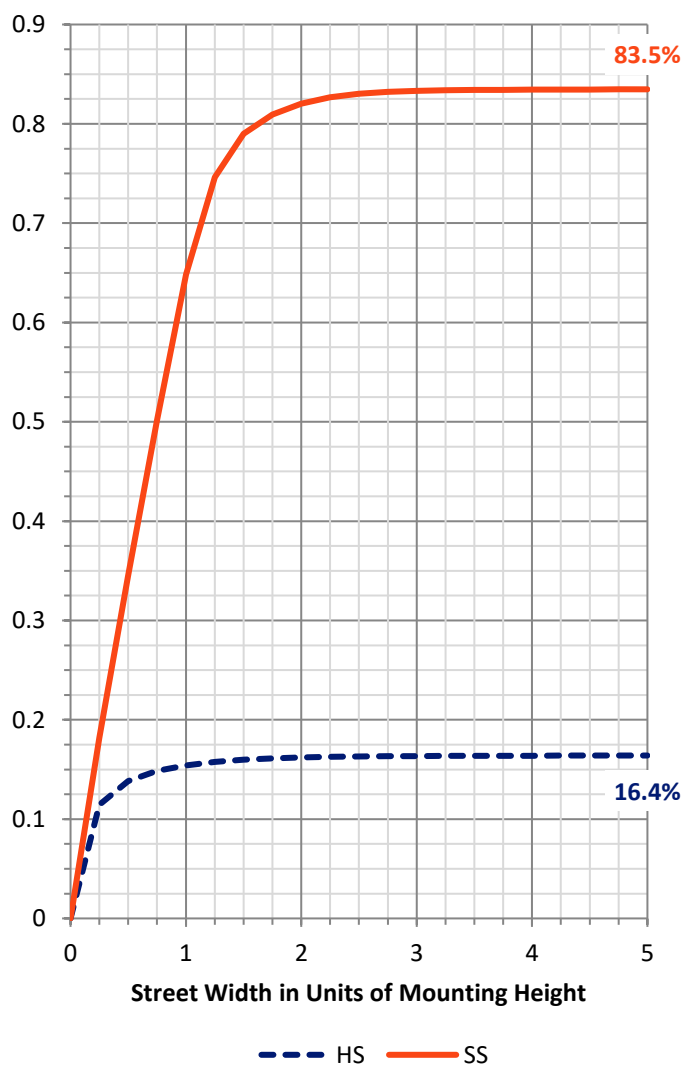
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2959.6	0.0	2959.6
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	14928.4	0.0	14928.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	17888.0	0.0	17888.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	551.3	3.1
10°-20°	1263.9	7.1
20°-30°	1796.2	10.0
30°-40°	2772.0	15.5
40°-50°	4346.3	24.3
50°-60°	5048.8	28.2
60°-70°	1907.7	10.7
70°-80°	181.4	1.0
80°-90°	20.4	0.1
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°	17888.0	100.0
0°-180°	17888.0	100.0

**Coefficient of Utilization**



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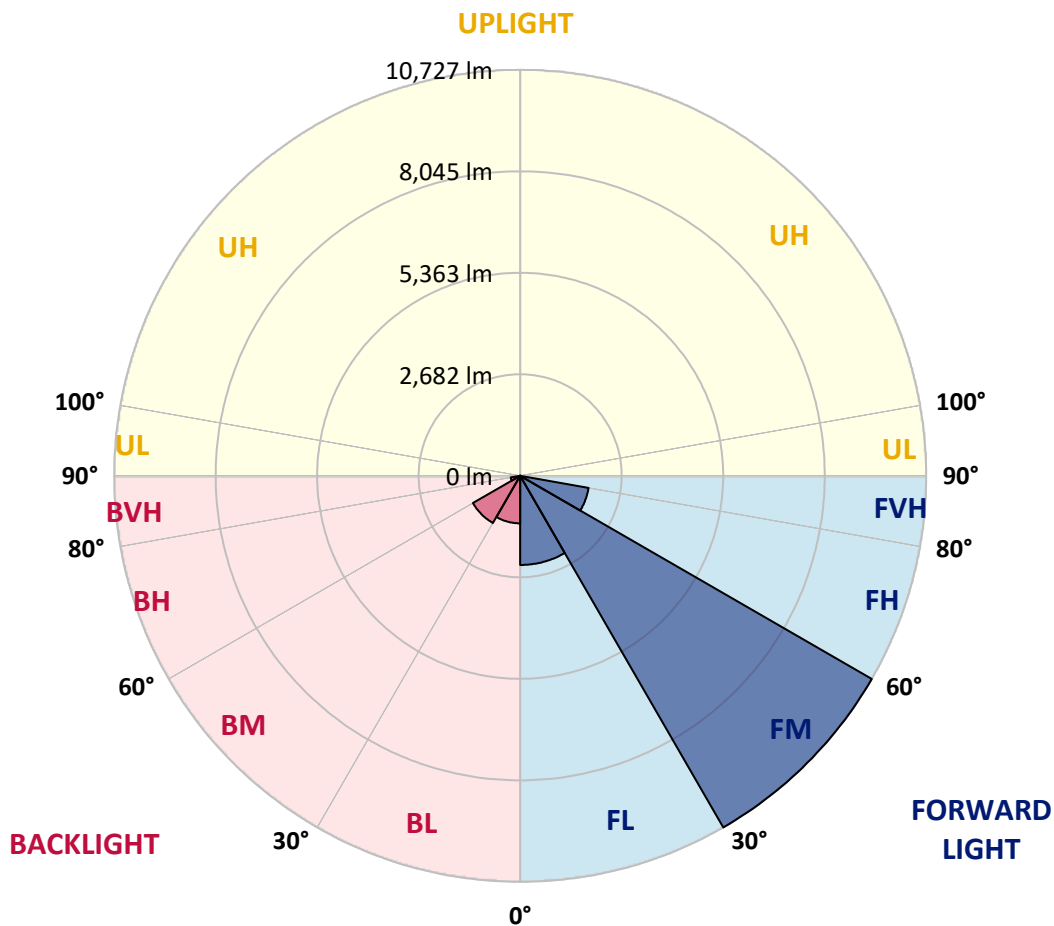
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2355.4	13.2			
FM (30°-60°)	10726.9	60.0			
FH (60°-80°)	1835.6	10.3			G2/5000
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	1255.9	7.0	B3/2500		
BM (30°-60°)	1440.2	8.1	B2/2500		
BH (60°-80°)	253.6	1.4	B1/500		G1/500
BVH (80°-90°)	9.9	0.1			G0/10
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°	53°	55°	65°	75°	85°
0°	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1
2.5°	6391.7	6335.1	6391.7	6398.4	6438.4	6475.1	6451.7	6505.0	6475.1	6441.7	6431.7
5°	5875.2	5951.9	5955.2	6075.2	6048.5	6268.4	6365.1	6338.4	6501.7	6491.7	6468.4
7.5°	5412.0	5382.0	5422.0	5561.9	5738.6	5991.8	6131.8	6128.5	6361.8	6528.4	6511.7
10°	4982.1	4978.8	5062.1	5172.0	5322.0	5588.6	5781.9	5878.5	6241.8	6495.1	6531.7
12.5°	4692.2	4678.8	4768.8	4858.8	5095.4	5302.0	5548.6	5595.3	6011.8	6378.4	6438.4
15°	4502.2	4532.2	4538.9	4712.2	4862.1	5135.4	5328.7	5425.3	5905.2	6285.1	6515.0
17.5°	4468.9	4508.9	4512.2	4655.5	4815.5	5045.4	5215.4	5345.3	5815.2	6331.8	6518.4
20°	4535.5	4512.2	4532.2	4622.2	4778.8	4998.8	5245.4	5288.7	5785.2	6355.1	6555.0
22.5°	4725.5	4718.8	4668.8	4742.2	4852.1	5082.1	5315.3	5382.0	5871.9	6475.1	6585.0
25°	4935.4	4972.1	4925.4	4915.4	4992.1	5218.7	5528.6	5615.3	6161.8	6691.7	6678.3
27.5°	5328.7	5292.0	5292.0	5245.4	5225.4	5335.3	5758.6	5901.9	6485.1	6971.6	6785.0
30°	5705.2	5745.2	5715.2	5731.9	5598.6	5588.6	6085.2	6261.8	7058.2	7398.2	7011.6
32.5°	6301.8	6248.4	6298.4	6255.1	6078.5	5898.5	6528.4	6711.7	7751.4	7888.0	7351.5
35°	6798.3	6775.0	6988.3	6981.6	6695.0	6518.4	6998.3	7271.5	8234.6	8474.6	7751.4
37.5°	7504.8	7461.5	7704.7	7821.4	7564.8	7301.5	7671.4	7988.0	8684.5	8944.4	8161.3
40°	8231.3	8341.3	8667.8	8861.1	8587.9	8238.0	8494.6	8591.2	8984.4	9251.0	8441.2
42.5°	9151.1	9311.0	9644.3	9810.9	9787.6	9407.7	9331.0	9327.7	9201.0	9164.4	8647.8
45°	10034.2	9974.2	10487.4	10850.6	11143.9	11033.9	10137.5	10037.5	9544.3	9294.4	8701.2
47.5°	10420.7	10400.7	10750.7	11397.2	12396.9	12533.5	11310.5	10923.9	10124.1	9840.9	8991.1
50°	9920.9	10024.2	10370.8	11087.2	12620.2	13663.3	12750.2	12230.3	10800.6	10507.4	9677.6
52.5°	8287.9	8357.9	8687.8	9597.6	11860.4	14329.8	14129.8	13829.9	12043.7	11557.1	10874.0
54°	6815.0	7001.6	7181.5	8094.7	10507.4	13959.9	14886.3	14656.4	12853.5	12430.2	11627.1
55°	5935.2	6045.2	6175.1	7084.9	9571.0	13333.3	14799.7	14819.6	13396.7	12703.5	12133.6
57.5°	4335.6	4412.2	4278.9	4682.2	6571.7	10827.3	13536.6	14076.5	14129.8	13113.4	12443.6
60°	3312.5	3345.8	3195.9	3259.2	4085.7	7431.5	10470.7	11120.6	12746.8	11460.5	10540.7
62.5°	2569.4	2576.0	2572.7	2682.7	2816.0	4372.2	6548.4	7124.9	8787.8	8138.0	7158.2
65°	1892.9	1862.9	1916.2	2249.4	2402.7	2749.3	3449.1	3869.0	4775.5	4032.3	2882.6
67.5°	1226.4	1236.4	1289.7	1672.9	2059.5	2109.5	2122.8	2089.5	2092.8	1153.0	723.2
70°	736.5	753.1	736.5	946.4	1473.0	1513.0	1383.0	1349.7	1053.1	273.3	269.9
72.5°	436.6	413.2	369.9	406.6	613.2	733.2	659.8	656.5	413.2	160.0	160.0
75°	183.3	166.6	136.6	123.3	163.3	156.6	156.6	140.0	110.0	106.6	100.0
77.5°	36.7	36.7	26.7	30.0	40.0	46.7	56.7	56.7	66.7	66.7	63.3
80°	0.0	3.3	10.0	20.0	30.0	43.3	50.0	50.0	56.7	56.7	46.7
82.5°	0.0	3.3	10.0	20.0	26.7	40.0	50.0	50.0	56.7	60.0	50.0
85°	0.0	3.3	10.0	16.7	26.7	33.3	33.3	30.0	23.3	20.0	13.3
87.5°	0.0	0.0	3.3	6.7	3.3	6.7	6.7	6.7	6.7	6.7	6.7
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°	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1	6425.1
2.5°	6455.1	6451.7	6371.7	6241.8	6211.8	6101.8	6088.5	6021.8	6058.5	5935.2	5921.9
5°	6401.7	6361.8	6265.1	6181.8	5938.5	5765.2	5628.6	5462.0	5365.3	5382.0	5318.7
7.5°	6478.4	6375.1	6205.1	5915.2	5618.6	5315.3	5152.1	4812.1	4688.8	4505.5	4478.9
10°	6398.4	6321.8	6058.5	5578.6	5168.7	4732.2	4348.9	3972.3	3685.7	3562.4	3535.8
12.5°	6391.7	6258.4	5818.6	5285.4	4692.2	4065.7	3509.1	3039.2	2756.0	2596.0	2559.4
15°	6288.4	6128.5	5548.6	4832.1	4012.3	3232.5	2626.0	2172.8	1956.2	1862.9	1889.5
17.5°	6298.4	6058.5	5278.7	4352.3	3342.5	2372.7	1792.9	1559.6	1503.0	1526.3	1526.3
20°	6288.4	5901.9	4952.1	3799.1	2559.4	1646.3	1316.3	1233.0	1269.7	1343.0	1326.3
22.5°	6235.1	5828.5	4652.2	3215.9	1882.9	1219.7	1056.4	1059.7	1116.4	1206.4	1226.4
25°	6275.1	5665.3	4272.3	2626.0	1373.0	973.1	916.4	939.8	999.8	1066.4	1079.7
27.5°	6245.1	5548.6	3875.7	2039.5	1003.1	836.5	833.1	859.8	886.4	936.4	936.4
30°	6278.4	5442.0	3485.8	1516.3	826.5	766.5	753.1	773.1	799.8	809.8	806.5
32.5°	6401.7	5362.0	3035.9	1133.1	729.8	699.8	699.8	699.8	696.5	709.8	713.2
35°	6671.7	5375.3	2639.3	876.4	666.5	643.2	633.2	619.8	613.2	619.8	623.2
37.5°	6964.9	5368.7	2229.4	746.5	619.8	599.9	576.5	556.5	553.2	559.9	549.9
40°	7094.9	5432.0	1849.5	669.8	576.5	553.2	516.5	499.9	503.2	509.9	503.2
42.5°	7271.5	5452.0	1602.9	609.8	536.5	499.9	476.5	456.6	453.2	463.2	459.9
45°	7268.2	5338.7	1343.0	576.5	499.9	459.9	429.9	413.2	413.2	419.9	423.2
47.5°	7481.5	5322.0	1153.0	546.5	473.2	433.2	396.6	383.2	379.9	379.9	373.2
50°	7978.0	5555.3	1006.4	513.2	439.9	403.2	373.2	356.6	343.2	336.6	333.3
52.5°	8947.8	6281.8	893.1	473.2	403.2	373.2	346.6	333.3	316.6	299.9	296.6
54°	9887.5	7031.6	886.4	439.9	373.2	353.2	329.9	323.3	303.3	279.9	273.3
55°	10310.8	7468.1	909.8	413.2	353.2	339.9	319.9	313.3	293.3	266.6	263.3
57.5°	10660.7	7638.1	896.4	343.2	319.9	316.6	299.9	289.9	266.6	229.9	223.3
60°	8581.2	5775.2	643.2	303.3	293.3	286.6	273.3	266.6	236.6	196.6	193.3
62.5°	5422.0	3322.5	409.9	266.6	256.6	246.6	229.9	223.3	196.6	156.6	146.6
65°	2309.4	1376.3	276.6	236.6	219.9	203.3	190.0	180.0	156.6	116.6	113.3
67.5°	599.9	489.9	229.9	206.6	183.3	160.0	150.0	133.3	106.6	80.0	76.6
70°	269.9	246.6	193.3	173.3	146.6	123.3	110.0	93.3	70.0	53.3	50.0
72.5°	160.0	156.6	146.6	130.0	110.0	93.3	80.0	63.3	46.7	30.0	30.0
75°	100.0	96.6	100.0	90.0	76.6	70.0	60.0	43.3	26.7	13.3	13.3
77.5°	60.0	60.0	60.0	56.7	53.3	53.3	43.3	26.7	13.3	3.3	3.3
80°	46.7	46.7	50.0	46.7	46.7	46.7	36.7	20.0	6.7	0.0	0.0
82.5°	46.7	50.0	56.7	53.3	46.7	40.0	33.3	20.0	6.7	0.0	0.0
85°	13.3	10.0	16.7	23.3	33.3	30.0	23.3	16.7	6.7	0.0	0.0
87.5°	6.7	6.7	6.7	6.7	3.3	3.3	3.3	3.3	3.3	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)