

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: P531353

Luminaire Tested: **GALN-SA6C-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
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-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17922 lumens  
Efficiency: N/A  
Efficacy: 55.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

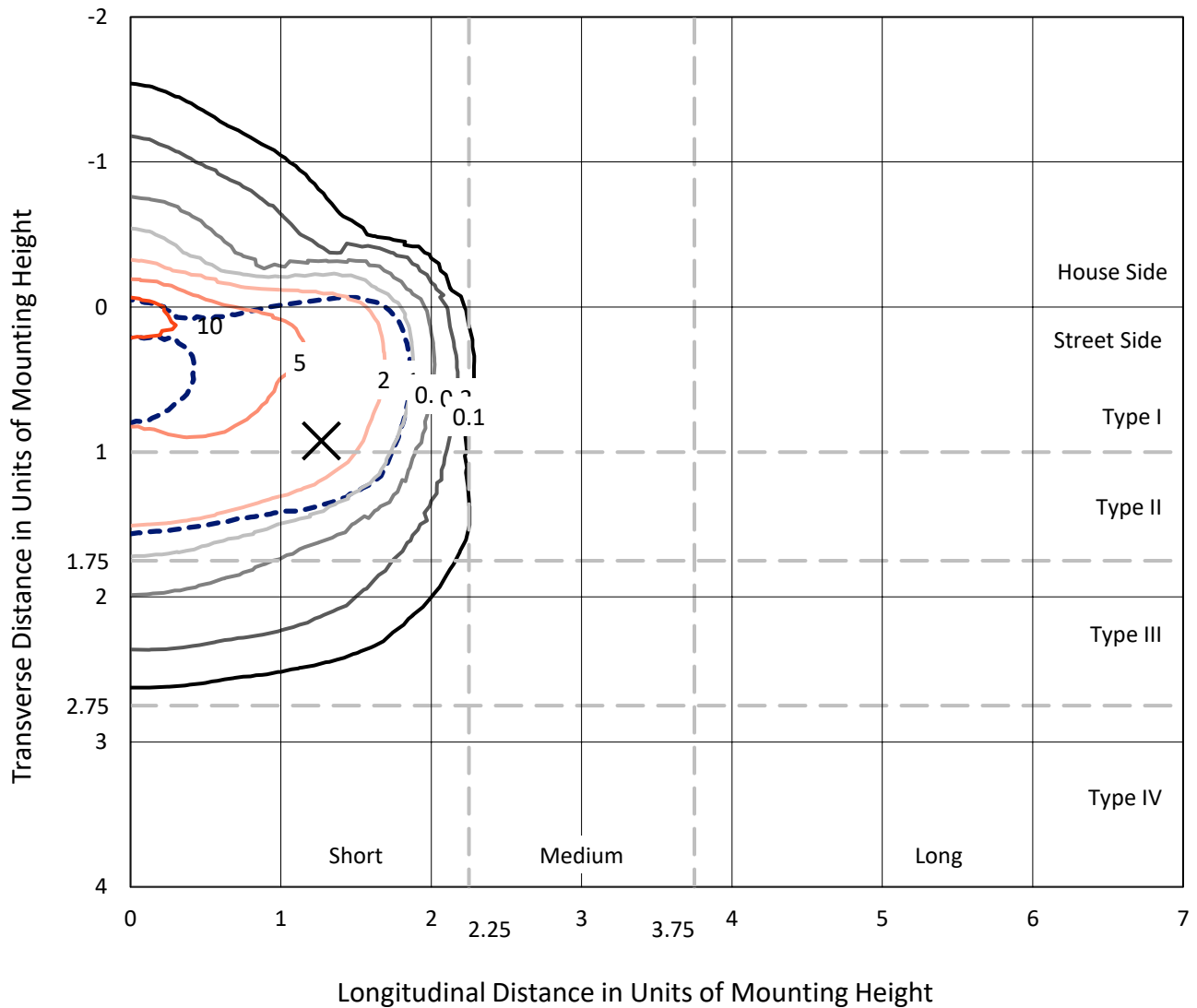
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

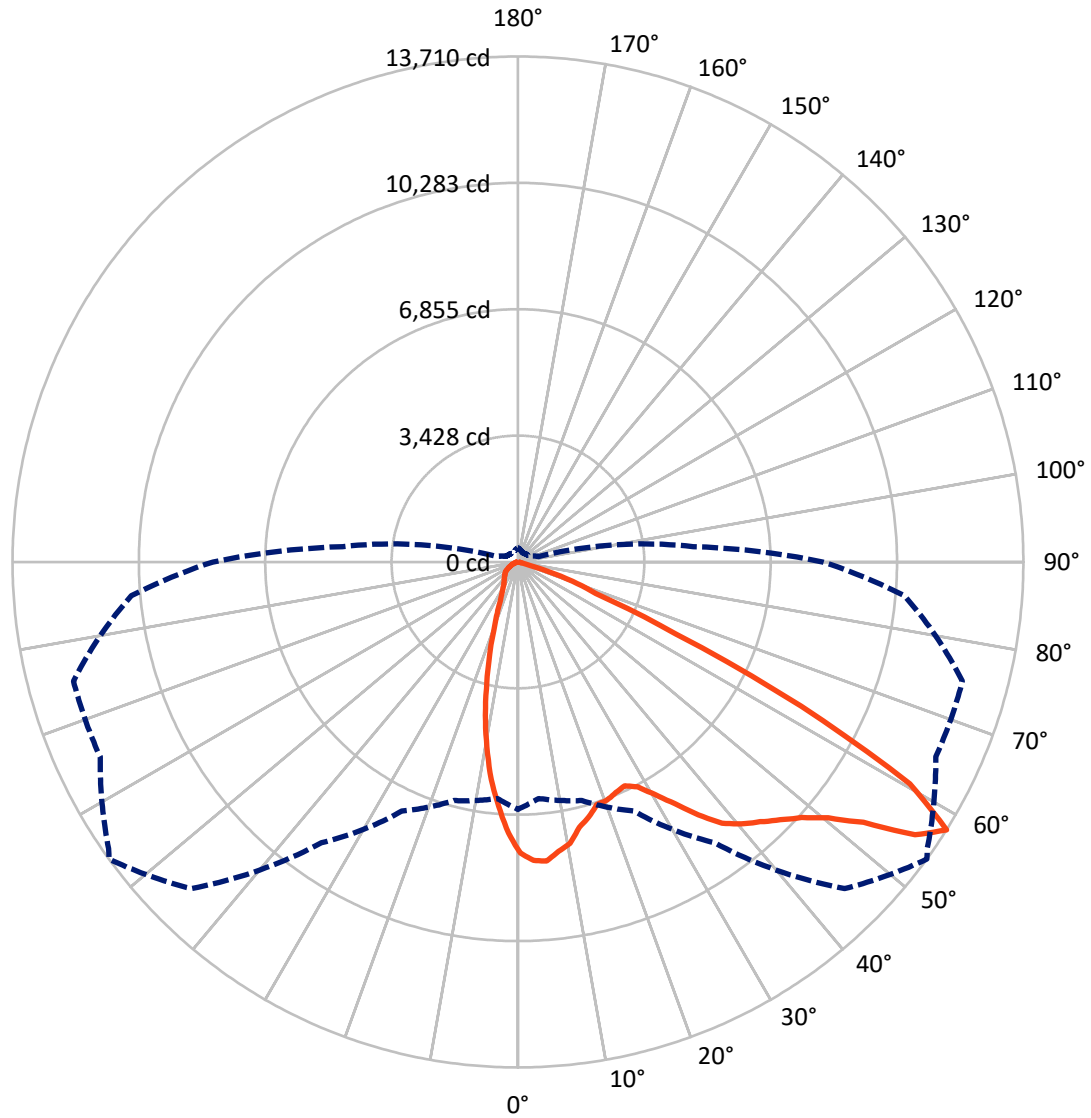
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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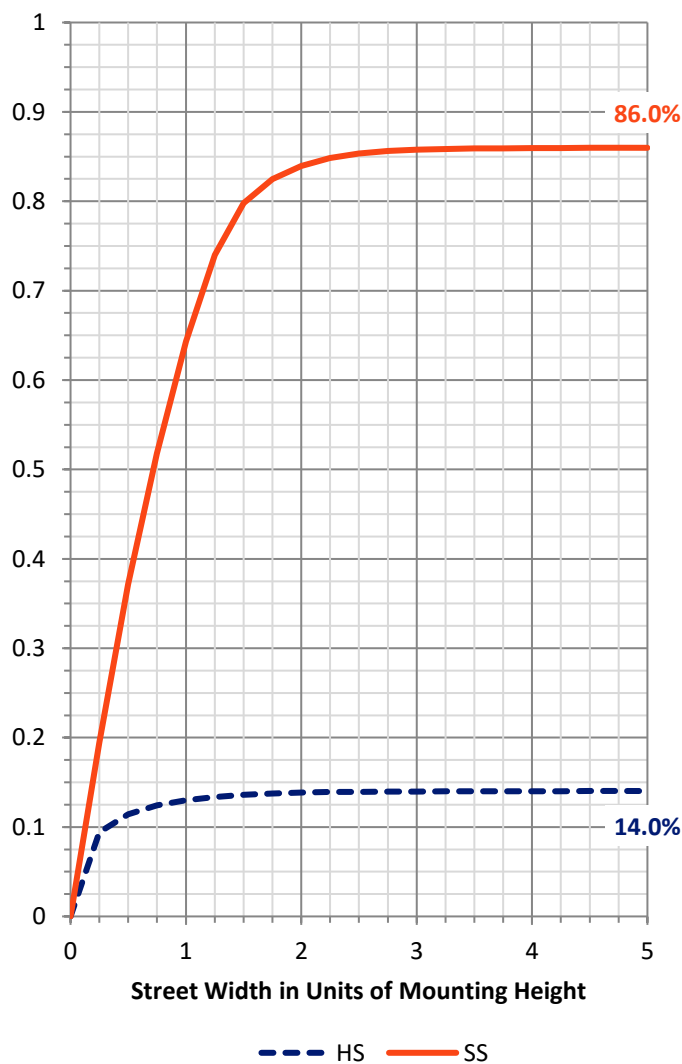
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2532.7	0.0	2532.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	15389.3	0.0	15389.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	17922.0	0.0	17922.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	660.7	3.7
10°-20°	1410.5	7.9
20°-30°	1869.2	10.4
30°-40°	2716.5	15.2
40°-50°	4028.1	22.5
50°-60°	5037.0	28.1
60°-70°	1986.9	11.1
70°-80°	197.8	1.1
80°-90°	15.4	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°	17922.0	100.0
0°-180°	17922.0	100.0

**Coefficient of Utilization**

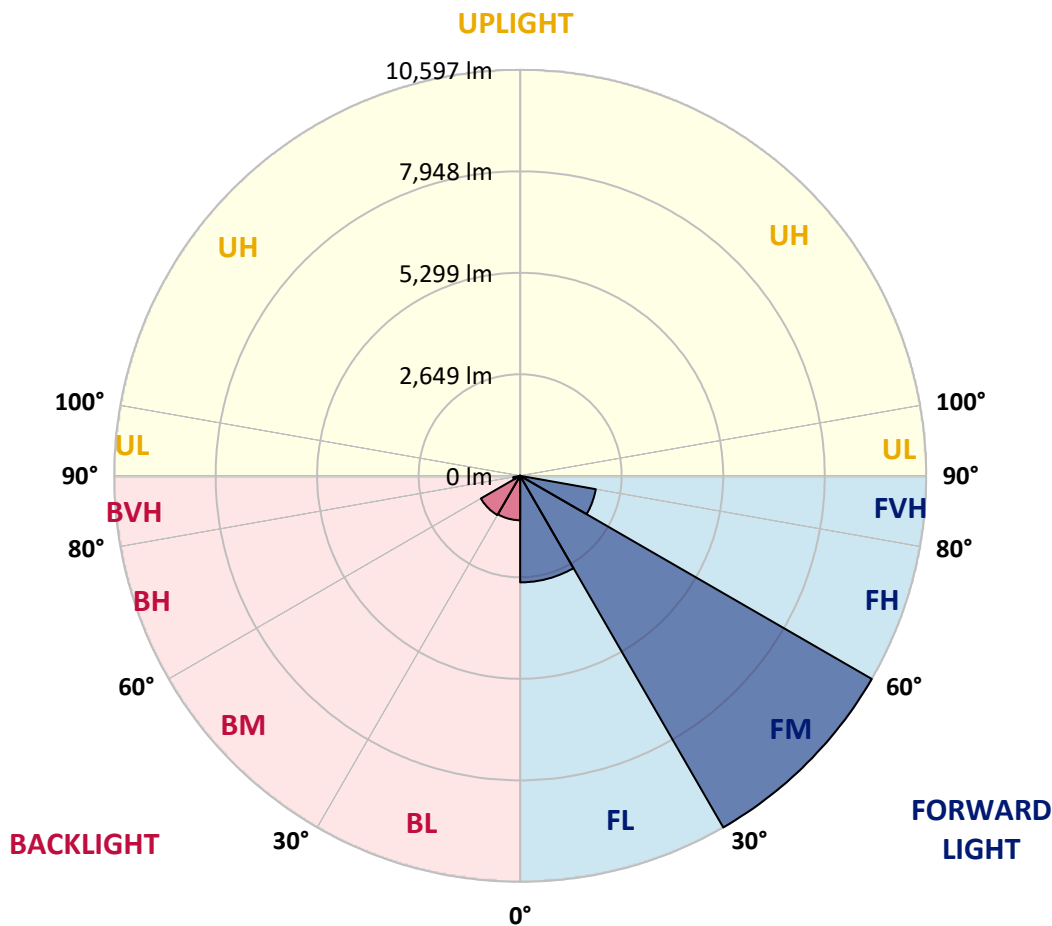


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2782.0	15.5			
FM (30°-60°)	10597.2	59.1			
FH (60°-80°)	2003.1	11.2			G2/5000
FVH (80°-90°)	7.0	0.0			G0/10
BL (0°-30°)	1158.3	6.5	B3/2500		
BM (30°-60°)	1184.3	6.6	B2/2500		
BH (60°-80°)	181.6	1.0	B1/500		G1/500
BVH (80°-90°)	8.4	0.0			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°	54°	55°	65°	75°	85°
0°	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9
2.5°	8354.8	8268.1	8274.8	8244.8	8204.8	8234.8	8104.8	8134.8	8131.5	7954.9	7838.2
5°	8144.8	8238.1	8141.5	8221.5	8144.8	8228.1	8148.2	8088.2	7991.5	7861.6	7644.9
7.5°	7788.2	7698.3	7724.9	7824.9	7841.6	8028.2	7928.2	8004.9	7964.9	7708.3	7411.7
10°	7071.7	7051.7	7185.0	7318.3	7481.6	7681.6	7758.2	7714.9	7684.9	7588.3	7191.7
12.5°	6521.9	6578.5	6575.2	6795.1	7071.7	7185.0	7385.0	7378.3	7545.0	7365.0	6985.1
15°	5998.6	6028.6	6168.6	6305.2	6611.8	6935.1	7181.7	7215.0	7415.0	7288.4	6825.1
17.5°	5678.7	5635.4	5745.4	5908.7	6221.9	6645.2	6918.4	6998.4	7271.7	7245.0	6641.8
20°	5362.1	5362.1	5452.1	5645.4	5932.0	6408.6	6895.1	6871.8	7271.7	7195.0	6445.2
22.5°	5255.5	5308.8	5332.1	5478.8	5818.7	6228.6	6795.1	6838.5	7328.3	7171.7	6358.6
25°	5402.1	5332.1	5338.8	5455.4	5775.4	6141.9	6721.8	6818.5	7431.7	7288.4	6288.6
27.5°	5425.4	5495.4	5515.4	5595.4	5808.7	6168.6	6905.1	7101.7	7688.3	7561.6	6308.6
30°	5628.7	5698.7	5695.4	5832.0	5978.6	6385.2	7315.0	7355.0	8218.1	7904.9	6431.9
32.5°	5875.3	5948.7	5972.0	6131.9	6248.6	6781.8	7814.9	7918.2	8728.0	8444.8	6755.1
35°	6181.9	6155.3	6261.9	6421.9	6671.8	7361.7	8424.8	8598.1	9277.9	9144.6	7088.4
37.5°	6565.2	6531.9	6635.2	6895.1	7235.0	8048.2	8988.0	9101.3	9677.8	9794.5	7704.9
40°	6835.1	6848.5	7161.7	7511.6	7871.6	8701.4	9344.6	9454.5	9957.7	10401.0	8171.5
42.5°	7285.0	7368.3	7744.9	8171.5	8548.1	9191.3	9634.5	9741.1	10087.7	10887.5	8801.3
45°	7938.2	7901.5	8318.1	8794.7	9211.3	9701.1	9977.7	9941.1	10164.4	11370.8	9197.9
47.5°	8778.0	8784.7	9061.3	9467.9	9901.1	10144.4	10361.0	10231.0	10324.3	11880.6	9727.8
50°	9351.2	9401.2	9624.5	10041.1	10257.7	10630.9	10907.5	10827.6	10797.6	12187.2	10061.1
52.5°	9497.9	9647.8	9767.8	10287.7	10794.2	11384.1	11737.3	11907.3	11374.1	12290.6	10484.3
55°	8391.4	8524.7	8948.0	9661.1	10997.5	12577.2	13063.7	13067.0	12127.3	12750.5	10780.9
57.5°	6708.5	6438.5	6698.5	7455.0	9297.9	12527.2	13710.2	13553.6	12503.8	12480.5	10524.3
60°	4639.0	4572.3	4589.0	4888.9	6435.2	9964.4	12217.2	12420.5	11514.1	10817.6	8331.5
62.5°	3675.8	3619.2	3545.9	3512.5	3995.8	6208.6	8618.1	8904.7	8051.5	7015.1	4938.9
65°	2879.3	2846.0	2856.0	2989.3	2986.0	3522.5	4712.3	4595.6	3679.2	2719.4	1553.0
67.5°	1942.9	1992.9	2032.9	2436.1	2642.7	2452.8	2276.2	2209.5	1196.4	503.2	343.3
70°	1093.1	1099.8	1143.1	1523.0	2006.2	1902.9	1569.6	1569.6	596.5	183.3	196.6
72.5°	596.5	576.5	536.5	656.5	893.1	906.5	699.8	609.9	176.6	120.0	110.0
75°	289.9	286.6	246.6	203.3	193.3	160.0	123.3	113.3	80.0	76.6	66.7
77.5°	60.0	56.7	30.0	30.0	33.3	36.7	46.7	46.7	56.7	56.7	46.7
80°	0.0	0.0	3.3	13.3	23.3	33.3	40.0	40.0	46.7	46.7	36.7
82.5°	0.0	0.0	3.3	10.0	20.0	30.0	36.7	40.0	46.7	50.0	40.0
85°	0.0	0.0	0.0	6.7	16.7	23.3	20.0	20.0	16.7	13.3	6.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9	7894.9
2.5°	7778.2	7771.6	7618.3	7531.6	7375.0	7238.4	7128.4	7048.4	7048.4	6998.4	6951.8
5°	7558.3	7501.6	7175.0	6965.1	6668.5	6448.5	6298.6	6181.9	5998.6	6048.6	5852.0
7.5°	7285.0	7141.7	6708.5	6388.6	5978.6	5665.4	5345.5	5062.2	4788.9	4665.6	4732.3
10°	6991.8	6741.8	6158.6	5652.1	5142.2	4569.0	4195.7	3742.5	3462.6	3445.9	3372.6
12.5°	6681.8	6398.6	5688.7	4988.9	4319.0	3629.2	3059.3	2636.1	2446.1	2236.2	2276.2
15°	6448.5	6028.6	5165.5	4322.4	3432.6	2736.0	2162.8	1836.3	1656.3	1606.3	1589.6
17.5°	6195.3	5745.4	4632.3	3612.5	2692.7	1969.6	1556.3	1399.7	1329.7	1329.7	1319.7
20°	5932.0	5425.4	4102.4	2952.7	2019.5	1469.7	1246.4	1196.4	1193.1	1189.7	1189.7
22.5°	5758.7	5058.9	3622.5	2346.1	1523.0	1176.4	1083.1	1063.1	1076.4	1116.4	1116.4
25°	5575.4	4705.6	3092.6	1809.6	1179.7	1009.8	956.5	969.8	1003.1	1039.8	1026.4
27.5°	5388.8	4475.7	2592.7	1419.7	966.4	883.1	863.1	893.1	929.8	963.1	953.1
30°	5345.5	4229.0	2119.5	1076.4	829.8	769.8	783.2	809.8	846.5	859.8	873.1
32.5°	5412.1	4035.8	1736.3	883.1	723.2	706.5	706.5	719.8	743.2	773.2	763.2
35°	5602.1	3925.8	1373.0	766.5	663.2	646.5	643.2	656.5	669.8	679.8	669.8
37.5°	5892.0	3839.1	1123.1	679.8	623.2	596.5	589.9	586.5	599.9	603.2	609.9
40°	6261.9	3885.8	953.1	626.5	583.2	553.2	533.2	533.2	533.2	543.2	546.5
42.5°	6661.8	3949.1	823.1	596.5	546.5	509.9	489.9	483.2	489.9	503.2	499.9
45°	7081.7	4072.4	739.8	549.9	513.2	466.6	439.9	433.2	449.9	476.6	473.2
47.5°	7475.0	4249.0	676.5	519.9	479.9	436.6	403.2	396.6	426.6	463.2	466.6
50°	7868.2	4555.6	653.2	496.6	456.6	406.6	376.6	369.9	403.2	449.9	459.9
52.5°	8321.5	4885.6	636.5	466.6	429.9	383.2	349.9	343.3	379.9	439.9	443.2
55°	8618.1	5165.5	623.2	413.2	379.9	346.6	319.9	316.6	356.6	409.9	423.2
57.5°	8271.5	4775.6	576.5	359.9	323.3	306.6	283.3	283.3	316.6	366.6	376.6
60°	6271.9	3142.6	409.9	289.9	273.3	263.3	253.3	253.3	279.9	316.6	319.9
62.5°	3672.5	1693.0	263.3	233.3	233.3	223.3	206.6	206.6	233.3	253.3	256.6
65°	1089.8	543.2	213.3	200.0	196.6	180.0	163.3	160.0	180.0	190.0	186.6
67.5°	313.3	249.9	176.6	166.6	163.3	136.6	126.6	123.3	126.6	120.0	116.6
70°	186.6	170.0	136.6	140.0	123.3	100.0	90.0	86.6	80.0	70.0	63.3
72.5°	103.3	103.3	100.0	106.6	86.6	66.7	56.7	46.7	36.7	30.0	26.7
75°	63.3	66.7	70.0	73.3	56.7	43.3	36.7	23.3	13.3	6.7	6.7
77.5°	43.3	46.7	50.0	53.3	46.7	40.0	30.0	16.7	3.3	0.0	0.0
80°	33.3	36.7	43.3	46.7	50.0	53.3	40.0	16.7	3.3	0.0	0.0
82.5°	36.7	40.0	50.0	46.7	46.7	46.7	36.7	16.7	3.3	0.0	0.0
85°	6.7	10.0	16.7	16.7	23.3	30.0	23.3	6.7	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)