

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: P530961

Luminaire Tested: **GALN-SA6B-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530961  
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-SA6B-727-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 800mA 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: 16471 lumens  
Efficiency: N/A  
Efficacy: 67.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

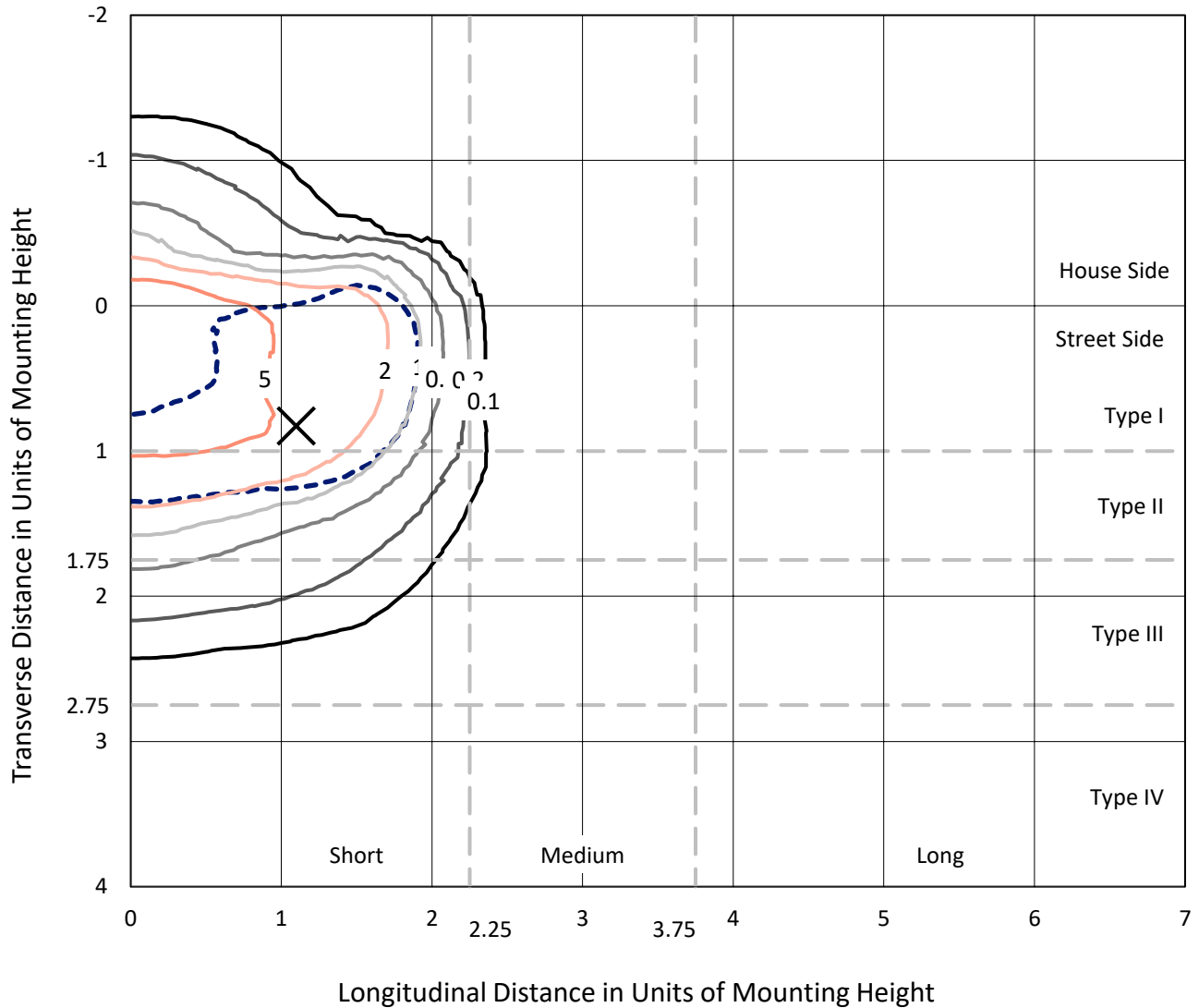
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

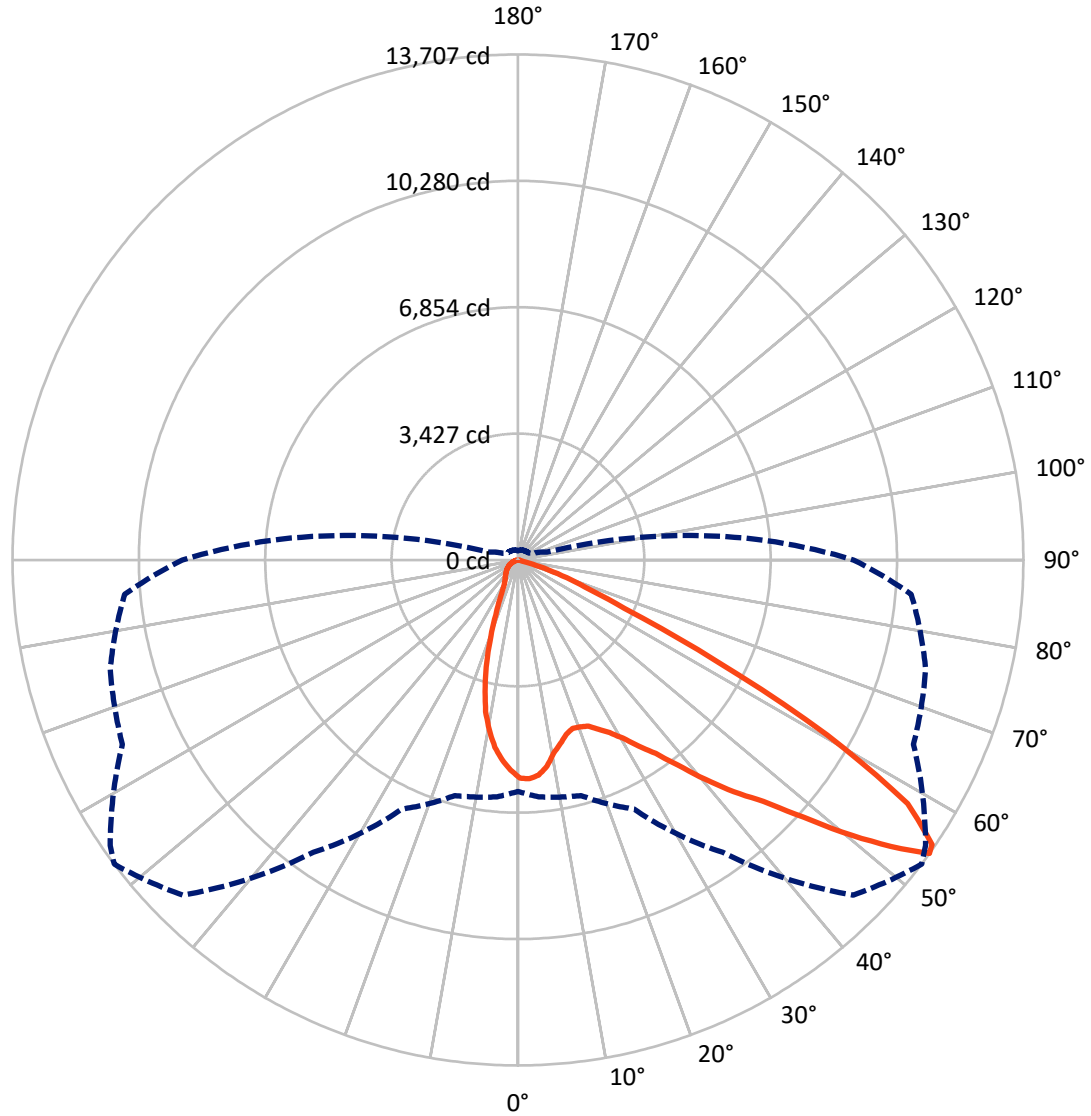
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 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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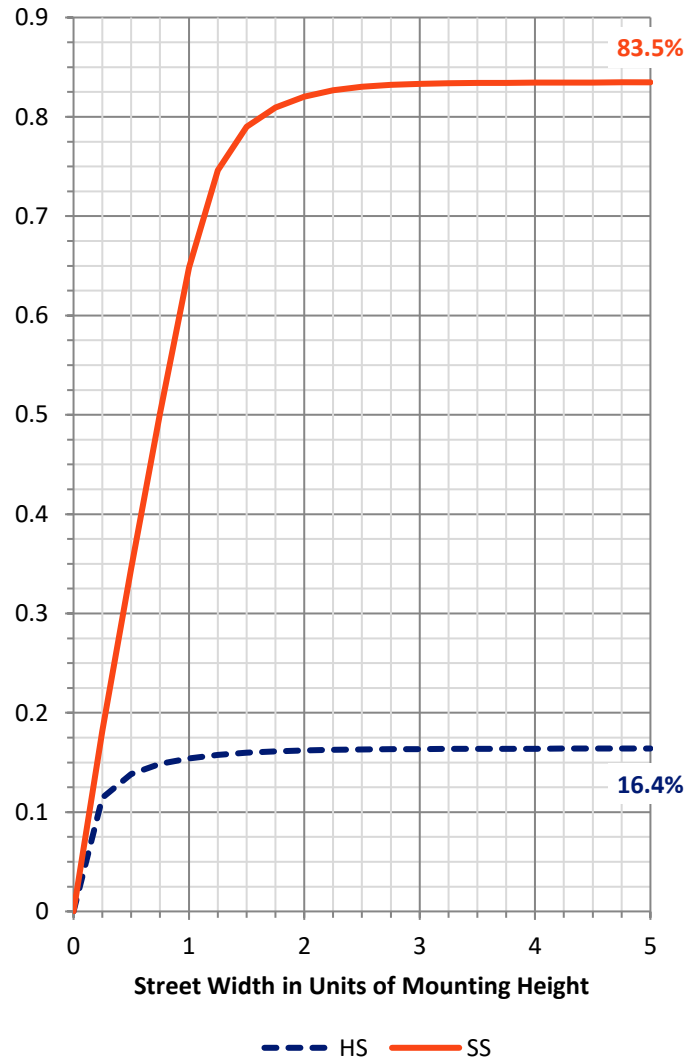
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2725.2	0.0	2725.2
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	13745.8	0.0	13745.8
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	16471.0	0.0	16471.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	507.6	3.1
10°-20°	1163.7	7.1
20°-30°	1653.9	10.0
30°-40°	2552.4	15.5
40°-50°	4002.0	24.3
50°-60°	4648.9	28.2
60°-70°	1756.6	10.7
70°-80°	167.0	1.0
80°-90°	18.8	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°	16471.0	100.0
0°-180°	16471.0	100.0

**Coefficient of Utilization**



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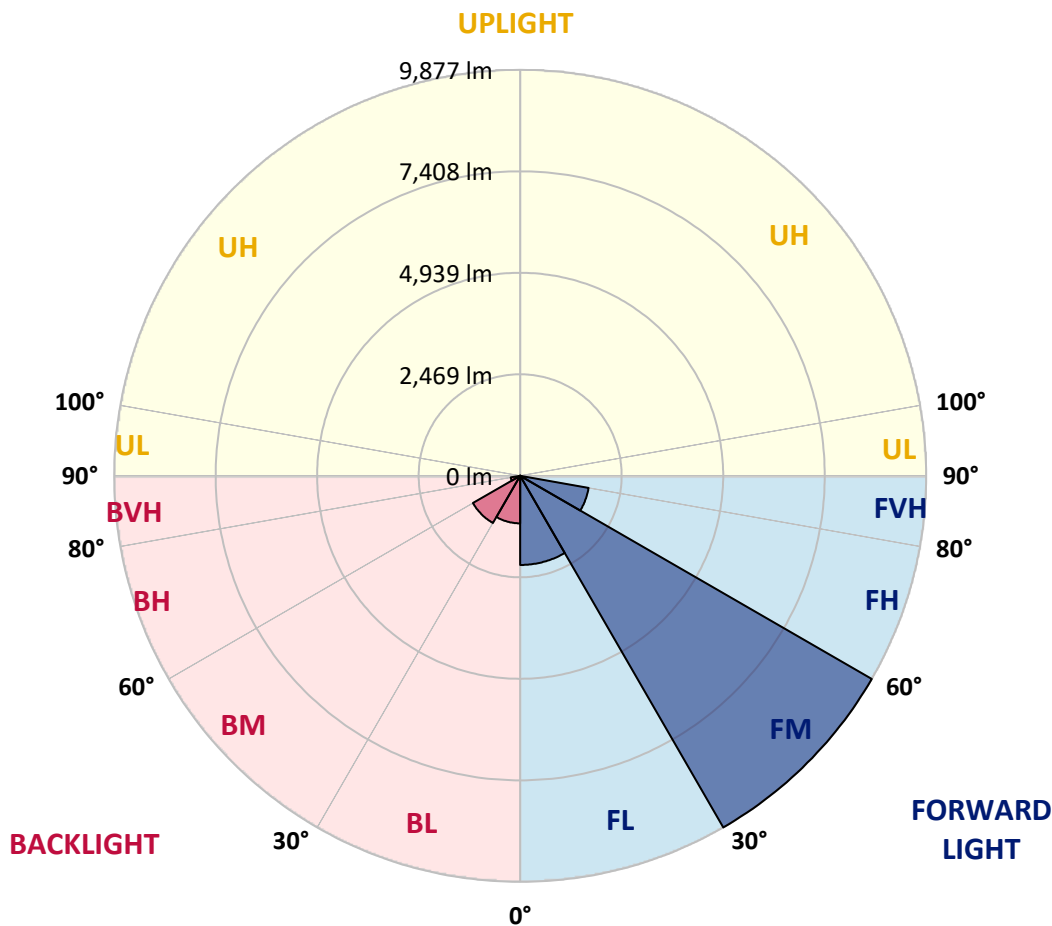
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2168.8	13.2			
FM (30°-60°)	9877.1	60.0			
FH (60°-80°)	1690.2	10.3			G1/1800
FVH (80°-90°)	9.7	0.1			G0/10
BL (0°-30°)	1156.4	7.0	B3/2500		
BM (30°-60°)	1326.1	8.1	B2/2500		
BH (60°-80°)	233.5	1.4	B1/500		G1/500
BVH (80°-90°)	9.1	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1
2.5°	5885.4	5833.3	5885.4	5891.6	5928.4	5962.1	5940.7	5989.7	5962.1	5931.4	5922.2
5°	5409.8	5480.4	5483.4	5593.9	5569.4	5771.9	5860.9	5836.3	5986.7	5977.5	5956.0
7.5°	4983.3	4955.7	4992.5	5121.4	5284.0	5517.2	5646.1	5643.0	5857.8	6011.2	5995.9
10°	4587.4	4584.4	4661.1	4762.3	4900.4	5145.9	5323.9	5412.9	5747.3	5980.5	6014.3
12.5°	4320.5	4308.2	4391.1	4473.9	4691.8	4882.0	5109.1	5152.0	5535.6	5873.1	5928.4
15°	4145.6	4173.2	4179.3	4338.9	4477.0	4728.6	4906.6	4995.5	5437.4	5787.2	5999.0
17.5°	4114.9	4151.7	4154.8	4286.7	4434.0	4645.7	4802.2	4921.9	5354.6	5830.2	6002.0
20°	4176.3	4154.8	4173.2	4256.0	4400.3	4602.8	4829.8	4869.7	5326.9	5851.7	6035.8
22.5°	4351.2	4345.0	4299.0	4366.5	4467.8	4679.5	4894.3	4955.7	5406.7	5962.1	6063.4
25°	4544.5	4578.2	4535.3	4526.1	4596.6	4805.3	5090.7	5170.5	5673.7	6161.6	6149.3
27.5°	4906.6	4872.8	4872.8	4829.8	4811.4	4912.7	5302.4	5434.3	5971.3	6419.3	6247.5
30°	5253.3	5290.1	5262.5	5277.9	5155.1	5145.9	5603.1	5765.7	6499.1	6812.1	6456.2
32.5°	5802.6	5753.5	5799.5	5759.6	5597.0	5431.3	6011.2	6180.0	7137.4	7263.2	6769.2
35°	6259.8	6238.3	6434.7	6428.5	6164.7	6002.0	6443.9	6695.5	7582.3	7803.2	7137.4
37.5°	6910.3	6870.4	7094.4	7201.8	6965.5	6723.1	7063.7	7355.2	7996.6	8235.9	7514.8
40°	7579.2	7680.5	7981.2	8159.2	7907.6	7585.4	7821.7	7910.6	8272.7	8518.2	7772.6
42.5°	8426.2	8573.4	8880.3	9033.7	9012.2	8662.4	8591.9	8588.8	8472.2	8438.4	7962.8
45°	9239.3	9184.1	9656.6	9991.1	10261.1	10159.9	9334.4	9242.4	8788.2	8558.1	8011.9
47.5°	9595.3	9576.8	9899.0	10494.3	11414.9	11540.7	10414.6	10058.6	9322.2	9061.3	8278.9
50°	9135.0	9230.1	9549.2	10209.0	11620.5	12580.9	11740.2	11261.5	9945.1	9675.0	8911.0
52.5°	7631.4	7695.8	7999.6	8837.3	10920.9	13194.6	13010.5	12734.4	11089.6	10641.6	10012.6
54°	6275.1	6447.0	6612.7	7453.4	9675.0	12854.0	13707.1	13495.3	11835.3	11445.6	10706.1
55°	5465.0	5566.3	5686.0	6523.7	8812.8	12277.1	13627.3	13645.7	12335.4	11697.2	11172.5
57.5°	3992.1	4062.7	3940.0	4311.3	6051.1	9969.6	12464.3	12961.4	13010.5	12074.6	11457.9
60°	3050.1	3080.8	2942.7	3001.0	3762.0	6842.8	9641.3	10239.6	11737.1	10552.6	9705.7
62.5°	2365.8	2372.0	2368.9	2470.2	2592.9	4025.9	6029.6	6560.5	8091.7	7493.3	6591.2
65°	1742.9	1715.3	1764.4	2071.3	2212.4	2531.5	3175.9	3562.6	4397.2	3712.9	2654.3
67.5°	1129.2	1138.4	1187.5	1540.4	1896.3	1942.4	1954.6	1924.0	1927.0	1061.7	665.9
70°	678.1	693.5	678.1	871.5	1356.3	1393.1	1273.4	1242.8	969.7	251.6	248.6
72.5°	402.0	380.5	340.6	374.4	564.6	675.1	607.6	604.5	380.5	147.3	147.3
75°	168.8	153.4	125.8	113.5	150.4	144.2	144.2	128.9	101.3	98.2	92.1
77.5°	33.8	33.8	24.5	27.6	36.8	43.0	52.2	52.2	61.4	61.4	58.3
80°	0.0	3.1	9.2	18.4	27.6	39.9	46.0	46.0	52.2	52.2	43.0
82.5°	0.0	3.1	9.2	18.4	24.5	36.8	46.0	46.0	52.2	55.2	46.0
85°	0.0	3.1	9.2	15.3	24.5	30.7	30.7	27.6	21.5	18.4	12.3
87.5°	0.0	0.0	3.1	6.1	3.1	6.1	6.1	6.1	6.1	6.1	6.1
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°	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1	5916.1
2.5°	5943.7	5940.7	5867.0	5747.3	5719.7	5618.5	5606.2	5544.8	5578.6	5465.0	5452.8
5°	5894.6	5857.8	5768.8	5692.1	5468.1	5308.5	5182.7	5029.3	4940.3	4955.7	4897.4
7.5°	5965.2	5870.1	5713.6	5446.6	5173.5	4894.3	4743.9	4430.9	4317.4	4148.6	4124.1
10°	5891.6	5821.0	5578.6	5136.7	4759.3	4357.3	4004.4	3657.7	3393.8	3280.2	3255.7
12.5°	5885.4	5762.7	5357.6	4866.7	4320.5	3743.6	3231.2	2798.5	2537.7	2390.4	2356.6
15°	5790.3	5643.0	5109.1	4449.4	3694.5	2976.5	2418.0	2000.7	1801.2	1715.3	1739.9
17.5°	5799.5	5578.6	4860.5	4007.5	3077.7	2184.8	1650.9	1436.1	1383.9	1405.4	1405.4
20°	5790.3	5434.3	4559.8	3498.1	2356.6	1515.8	1212.1	1135.4	1169.1	1236.6	1221.3
22.5°	5741.2	5366.8	4283.7	2961.1	1733.7	1123.1	972.7	975.8	1028.0	1110.8	1129.2
25°	5778.0	5216.5	3933.8	2418.0	1264.2	896.0	843.8	865.3	920.6	981.9	994.2
27.5°	5750.4	5109.1	3568.7	1877.9	923.6	770.2	767.1	791.7	816.2	862.3	862.3
30°	5781.1	5010.9	3209.7	1396.2	761.0	705.8	693.5	711.9	736.4	745.7	742.6
32.5°	5894.6	4937.2	2795.4	1043.3	672.0	644.4	644.4	644.4	641.3	653.6	656.7
35°	6143.2	4949.5	2430.3	807.0	613.7	592.2	583.0	570.7	564.6	570.7	573.8
37.5°	6413.2	4943.4	2052.8	687.3	570.7	552.3	530.9	512.4	509.4	515.5	506.3
40°	6532.9	5001.7	1703.0	616.8	530.9	509.4	475.6	460.3	463.3	469.5	463.3
42.5°	6695.5	5020.1	1476.0	561.5	494.0	460.3	438.8	420.4	417.3	426.5	423.5
45°	6692.4	4915.8	1236.6	530.9	460.3	423.5	395.8	380.5	380.5	386.6	389.7
47.5°	6888.8	4900.4	1061.7	503.2	435.7	398.9	365.2	352.9	349.8	349.8	343.7
50°	7346.0	5115.2	926.7	472.6	405.0	371.3	343.7	328.3	316.1	309.9	306.9
52.5°	8239.0	5784.2	822.4	435.7	371.3	343.7	319.1	306.9	291.5	276.2	273.1
54°	9104.3	6474.6	816.2	405.0	343.7	325.3	303.8	297.6	279.2	257.8	251.6
55°	9494.0	6876.6	837.7	380.5	325.3	313.0	294.6	288.4	270.0	245.5	242.4
57.5°	9816.2	7033.0	825.4	316.1	294.6	291.5	276.2	267.0	245.5	211.7	205.6
60°	7901.4	5317.7	592.2	279.2	270.0	263.9	251.6	245.5	217.9	181.0	178.0
62.5°	4992.5	3059.3	377.4	245.5	236.3	227.1	211.7	205.6	181.0	144.2	135.0
65°	2126.5	1267.3	254.7	217.9	202.5	187.2	174.9	165.7	144.2	107.4	104.3
67.5°	552.3	451.1	211.7	190.2	168.8	147.3	138.1	122.7	98.2	73.6	70.6
70°	248.6	227.1	178.0	159.6	135.0	113.5	101.3	85.9	64.4	49.1	46.0
72.5°	147.3	144.2	135.0	119.7	101.3	85.9	73.6	58.3	43.0	27.6	27.6
75°	92.1	89.0	92.1	82.9	70.6	64.4	55.2	39.9	24.5	12.3	12.3
77.5°	55.2	55.2	55.2	52.2	49.1	49.1	39.9	24.5	12.3	3.1	3.1
80°	43.0	43.0	46.0	43.0	43.0	43.0	33.8	18.4	6.1	0.0	0.0
82.5°	43.0	46.0	52.2	49.1	43.0	36.8	30.7	18.4	6.1	0.0	0.0
85°	12.3	9.2	15.3	21.5	30.7	27.6	21.5	15.3	6.1	0.0	0.0
87.5°	6.1	6.1	6.1	6.1	3.1	3.1	3.1	3.1	3.1	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)