

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: P530027

Luminaire Tested: **GALN-SA5B-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530027  
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-SA5B-727-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA 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: 13937 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

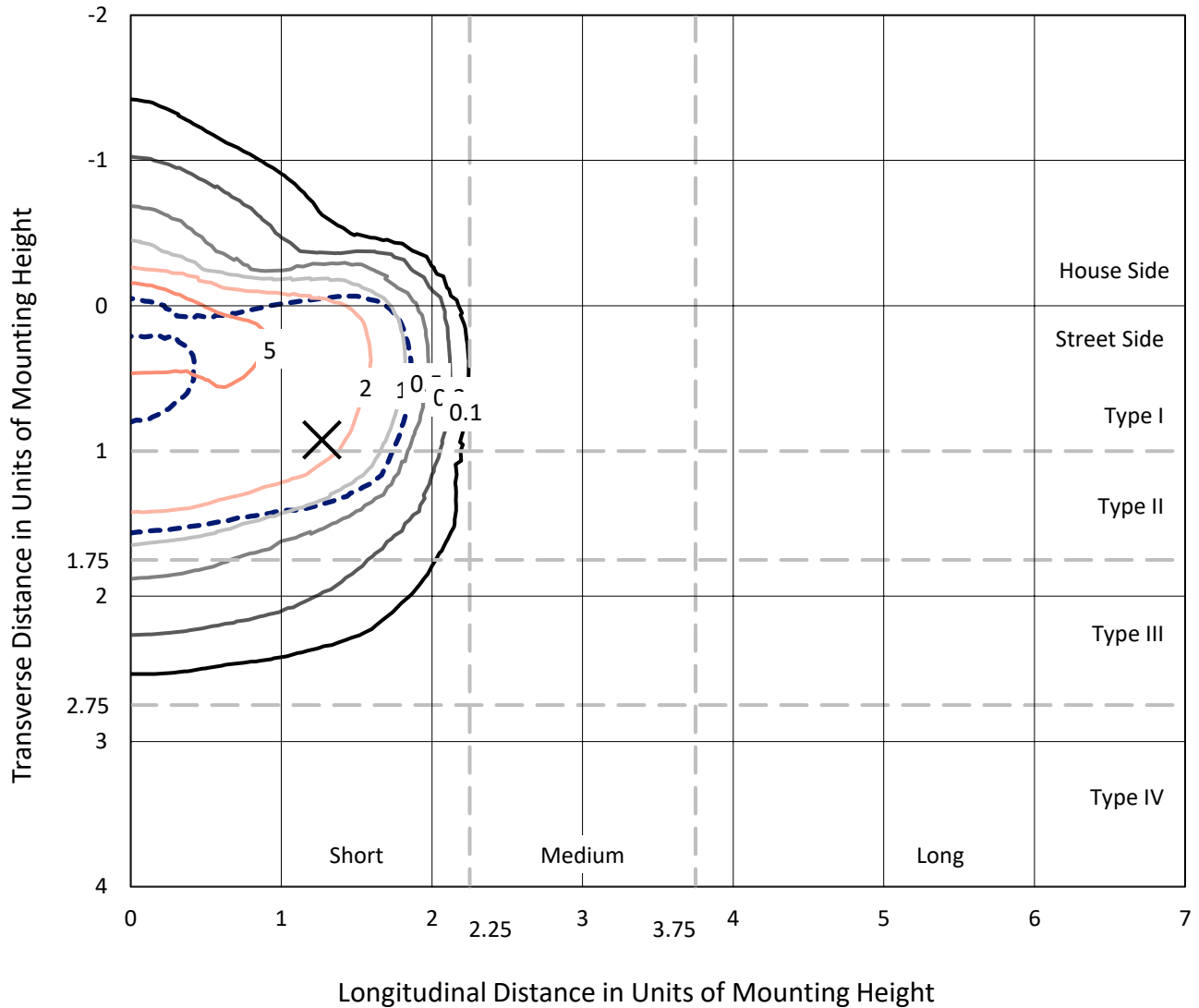
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

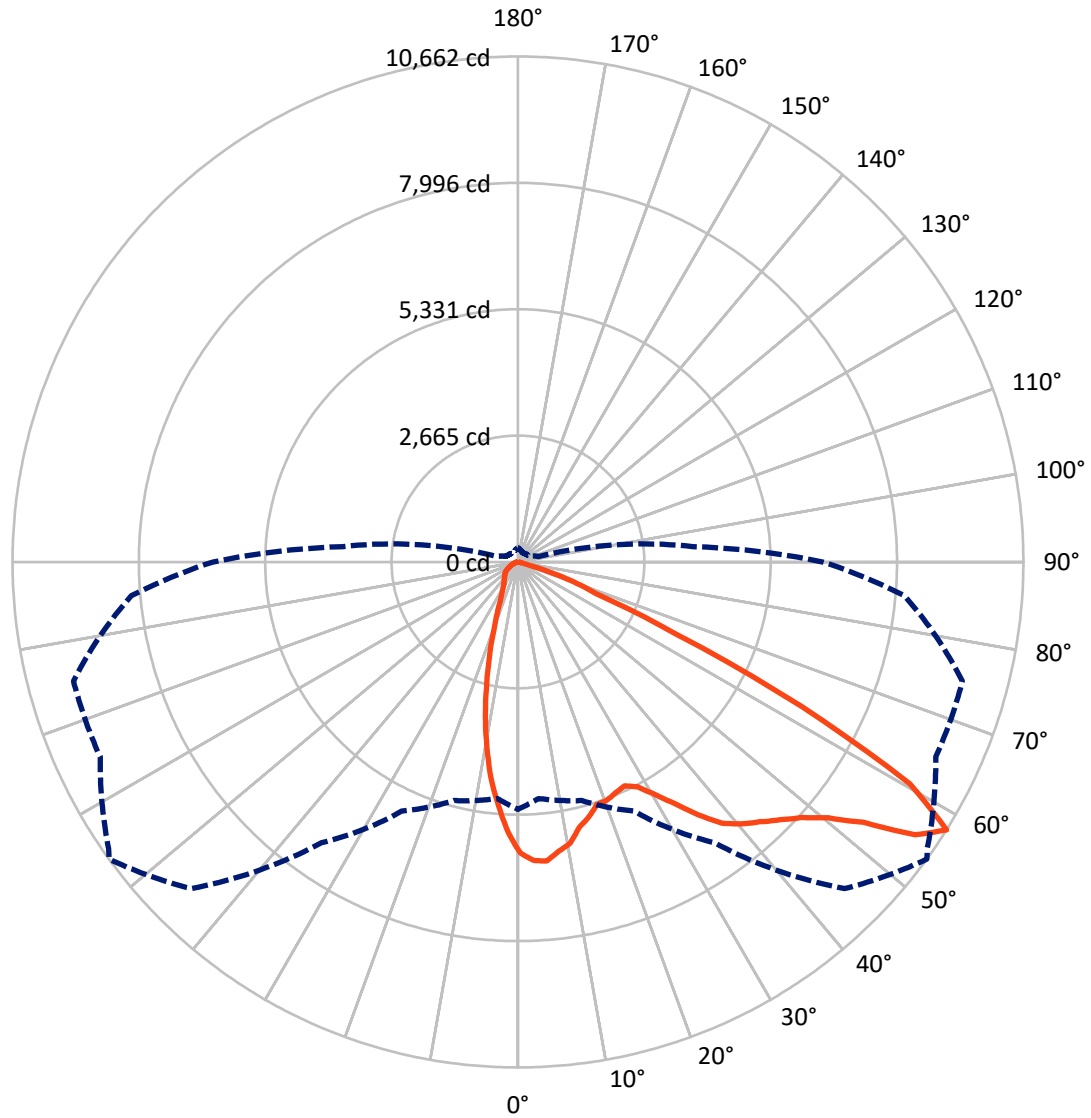
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 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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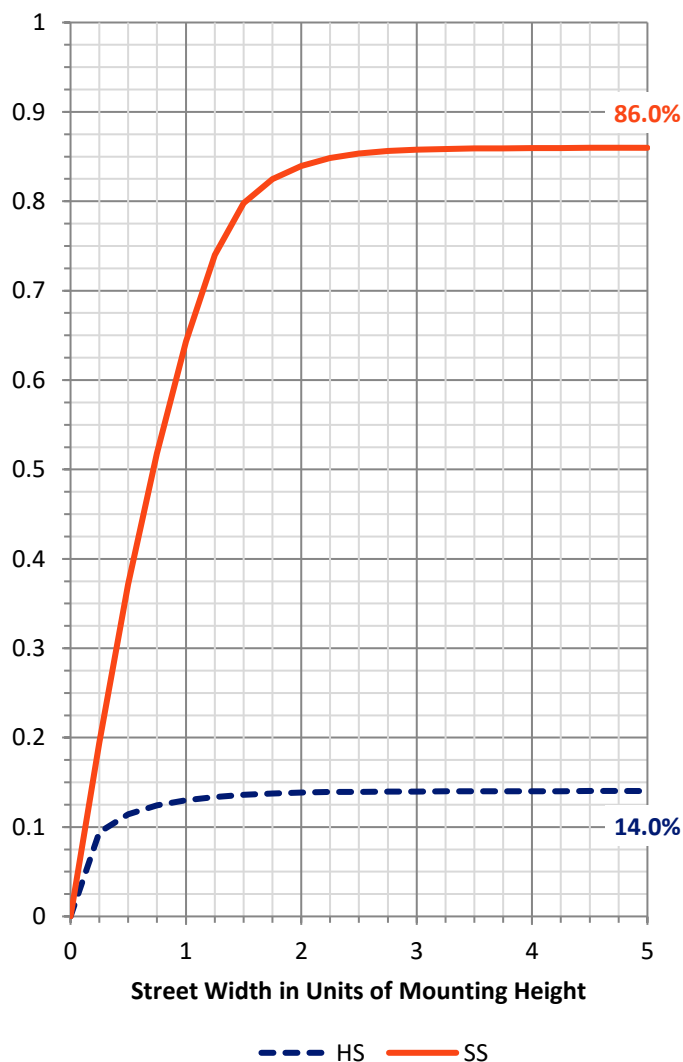
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1969.5	0.0	1969.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	11967.5	0.0	11967.5
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	13937.0	0.0	13937.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	513.8	3.7
10°-20°	1096.9	7.9
20°-30°	1453.6	10.4
30°-40°	2112.4	15.2
40°-50°	3132.5	22.5
50°-60°	3917.0	28.1
60°-70°	1545.1	11.1
70°-80°	153.8	1.1
80°-90°	12.0	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°	13937.0	100.0
0°-180°	13937.0	100.0

**Coefficient of Utilization**



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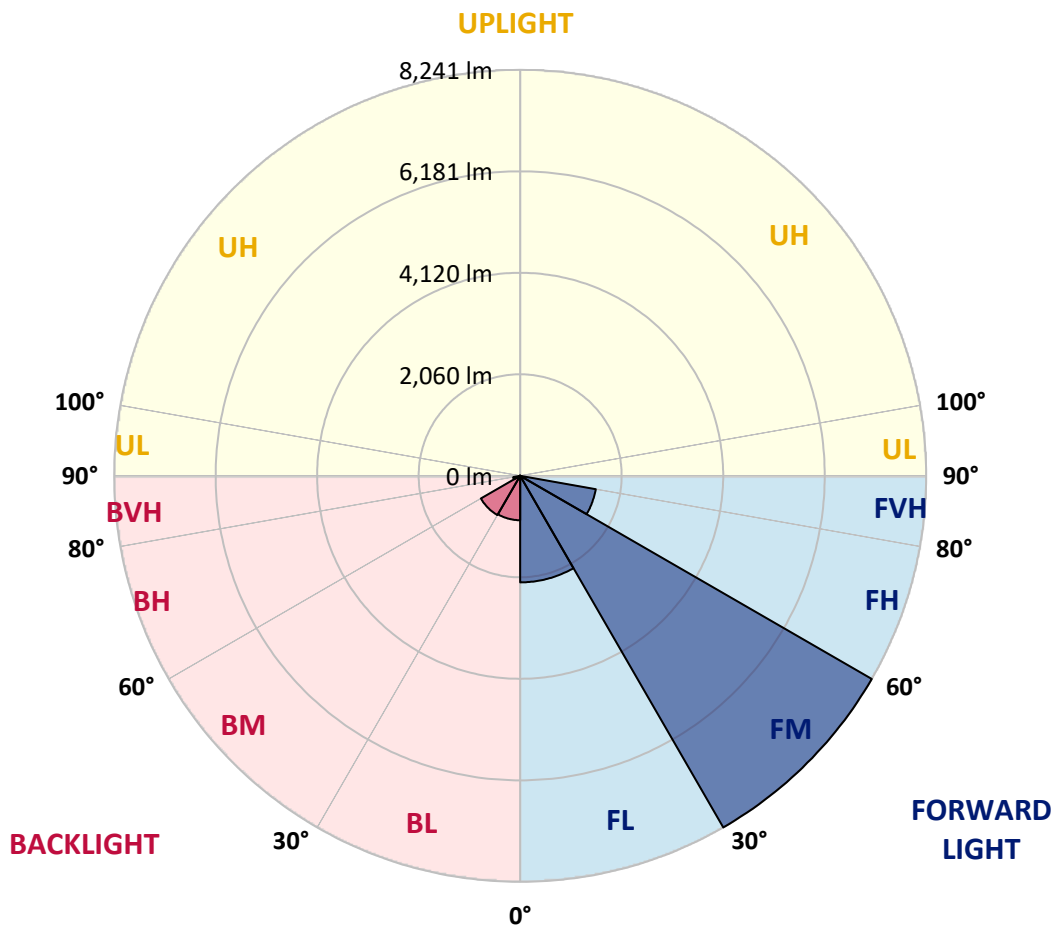
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2163.4	15.5			
FM (30°-60°)	8240.9	59.1			
FH (60°-80°)	1557.7	11.2			G1/1800
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	900.8	6.5	B2/1000		
BM (30°-60°)	921.0	6.6	B1/1000		
BH (60°-80°)	141.2	1.0	B1/500		G1/500
BVH (80°-90°)	6.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4
2.5°	6497.1	6429.7	6434.9	6411.6	6380.5	6403.8	6302.7	6326.0	6323.4	6186.1	6095.4
5°	6333.8	6406.4	6331.2	6393.4	6333.8	6398.6	6336.4	6289.7	6214.6	6113.5	5945.1
7.5°	6056.5	5986.5	6007.3	6085.0	6098.0	6243.1	6165.4	6225.0	6193.9	5994.3	5763.7
10°	5499.3	5483.8	5587.4	5691.1	5818.1	5973.6	6033.2	5999.5	5976.2	5901.0	5592.6
12.5°	5071.7	5115.8	5113.2	5284.2	5499.3	5587.4	5742.9	5737.7	5867.3	5727.4	5431.9
15°	4664.8	4688.2	4797.0	4903.3	5141.7	5393.1	5584.8	5610.8	5766.2	5667.8	5307.5
17.5°	4416.0	4382.3	4467.9	4594.9	4838.5	5167.6	5380.1	5442.3	5654.8	5634.1	5165.0
20°	4169.8	4169.8	4239.8	4390.1	4613.0	4983.6	5362.0	5343.8	5654.8	5595.2	5012.1
22.5°	4086.9	4128.4	4146.5	4260.5	4524.9	4843.6	5284.2	5317.9	5698.9	5577.1	4944.7
25°	4200.9	4146.5	4151.7	4242.4	4491.2	4776.3	5227.2	5302.4	5779.2	5667.8	4890.3
27.5°	4219.1	4273.5	4289.1	4351.3	4517.1	4797.0	5369.7	5522.6	5978.8	5880.3	4905.8
30°	4377.2	4431.6	4429.0	4535.3	4649.3	4965.5	5688.5	5719.6	6390.8	6147.2	5001.7
32.5°	4568.9	4626.0	4644.1	4768.5	4859.2	5273.9	6077.2	6157.6	6787.3	6567.0	5253.1
35°	4807.4	4786.6	4869.6	4994.0	5188.3	5724.8	6551.5	6686.3	7214.9	7111.3	5512.3
37.5°	5105.4	5079.5	5159.8	5362.0	5626.3	6258.6	6989.5	7077.6	7525.9	7616.6	5991.7
40°	5315.3	5325.7	5569.3	5841.4	6121.3	6766.6	7266.8	7352.3	7743.6	8088.3	6354.5
42.5°	5665.2	5730.0	6022.8	6354.5	6647.4	7147.6	7492.2	7575.2	7844.7	8466.7	6844.3
45°	6173.1	6144.6	6468.6	6839.2	7163.1	7544.1	7759.2	7730.7	7904.3	8842.4	7152.7
47.5°	6826.2	6831.4	7046.5	7362.7	7699.6	7888.7	8057.2	7956.1	8028.7	9239.0	7564.8
50°	7272.0	7310.8	7484.5	7808.4	7976.9	8267.1	8482.2	8420.0	8396.7	9477.4	7824.0
52.5°	7386.0	7502.6	7595.9	8000.2	8394.1	8852.8	9127.5	9259.7	8845.0	9557.7	8153.1
55°	6525.6	6629.2	6958.4	7513.0	8552.2	9780.6	10159.0	10161.6	9430.7	9915.4	8383.7
57.5°	5216.8	5006.9	5209.1	5797.3	7230.5	9741.7	10661.7	10539.9	9723.6	9705.4	8184.2
60°	3607.5	3555.6	3568.6	3801.8	5004.3	7748.8	9500.7	9658.8	8953.9	8412.2	6478.9
62.5°	2858.5	2814.4	2757.4	2731.5	3107.3	4828.1	6701.8	6924.7	6261.2	5455.3	3840.7
65°	2239.1	2213.2	2221.0	2324.6	2322.0	2739.3	3664.5	3573.8	2861.1	2114.7	1207.7
67.5°	1510.9	1549.8	1580.9	1894.4	2055.1	1907.4	1770.0	1718.2	930.4	391.3	266.9
70°	850.0	855.2	888.9	1184.3	1560.1	1479.8	1220.6	1220.6	463.9	142.5	152.9
72.5°	463.9	448.3	417.2	510.5	694.5	704.9	544.2	474.3	137.4	93.3	85.5
75°	225.5	222.9	191.8	158.1	150.3	124.4	95.9	88.1	62.2	59.6	51.8
77.5°	46.6	44.1	23.3	23.3	25.9	28.5	36.3	36.3	44.1	44.1	36.3
80°	0.0	0.0	2.6	10.4	18.1	25.9	31.1	31.1	36.3	36.3	28.5
82.5°	0.0	0.0	2.6	7.8	15.5	23.3	28.5	31.1	36.3	38.9	31.1
85°	0.0	0.0	0.0	5.2	13.0	18.1	15.5	15.5	13.0	10.4	5.2
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°	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4	6139.4
2.5°	6048.7	6043.5	5924.3	5857.0	5735.2	5628.9	5543.4	5481.2	5481.2	5442.3	5406.0
5°	5877.7	5833.6	5579.7	5416.4	5185.7	5014.7	4898.1	4807.4	4664.8	4703.7	4550.8
7.5°	5665.2	5553.7	5216.8	4968.0	4649.3	4405.7	4156.9	3936.6	3724.1	3628.2	3680.0
10°	5437.1	5242.8	4789.2	4395.3	3998.8	3553.0	3262.8	2910.3	2692.6	2679.7	2622.7
12.5°	5196.1	4975.8	4423.8	3879.6	3358.7	2822.2	2379.1	2049.9	1902.2	1738.9	1770.0
15°	5014.7	4688.2	4016.9	3361.3	2669.3	2127.7	1681.9	1428.0	1288.0	1249.1	1236.2
17.5°	4817.7	4467.9	3602.3	2809.3	2094.0	1531.6	1210.3	1088.5	1034.0	1034.0	1026.3
20°	4613.0	4219.1	3190.2	2296.1	1570.5	1142.9	969.2	930.4	927.8	925.2	925.2
22.5°	4478.2	3934.0	2817.0	1824.5	1184.3	914.8	842.3	826.7	837.1	868.2	868.2
25°	4335.7	3659.3	2405.0	1407.2	917.4	785.2	743.8	754.1	780.1	808.6	798.2
27.5°	4190.6	3480.5	2016.2	1104.0	751.6	686.8	671.2	694.5	723.0	749.0	741.2
30°	4156.9	3288.7	1648.2	837.1	645.3	598.7	609.0	629.8	658.3	668.6	679.0
32.5°	4208.7	3138.4	1350.2	686.8	562.4	549.4	549.4	559.8	577.9	601.2	593.5
35°	4356.4	3052.9	1067.7	596.1	515.7	502.8	500.2	510.5	520.9	528.7	520.9
37.5°	4581.9	2985.5	873.4	528.7	484.6	463.9	458.7	456.1	466.5	469.1	474.3
40°	4869.6	3021.8	741.2	487.2	453.5	430.2	414.7	414.7	414.7	422.4	425.0
42.5°	5180.6	3071.0	640.1	463.9	425.0	396.5	381.0	375.8	381.0	391.3	388.7
45°	5507.1	3166.9	575.3	427.6	399.1	362.8	342.1	336.9	349.9	370.6	368.0
47.5°	5812.9	3304.3	526.1	404.3	373.2	339.5	313.6	308.4	331.7	360.2	362.8
50°	6118.7	3542.7	507.9	386.1	355.0	316.2	292.8	287.7	313.6	349.9	357.6
52.5°	6471.2	3799.2	495.0	362.8	334.3	298.0	272.1	266.9	295.4	342.1	344.7
55°	6701.8	4016.9	484.6	321.4	295.4	269.5	248.8	246.2	277.3	318.8	329.1
57.5°	6432.3	3713.7	448.3	279.9	251.4	238.4	220.3	220.3	246.2	285.1	292.8
60°	4877.3	2443.9	318.8	225.5	212.5	204.7	197.0	197.0	217.7	246.2	248.8
62.5°	2855.9	1316.5	204.7	181.4	181.4	173.6	160.7	160.7	181.4	197.0	199.6
65°	847.4	422.4	165.9	155.5	152.9	139.9	127.0	124.4	139.9	147.7	145.1
67.5°	243.6	194.4	137.4	129.6	127.0	106.3	98.5	95.9	98.5	93.3	90.7
70°	145.1	132.2	106.3	108.8	95.9	77.7	70.0	67.4	62.2	54.4	49.2
72.5°	80.3	80.3	77.7	82.9	67.4	51.8	44.1	36.3	28.5	23.3	20.7
75°	49.2	51.8	54.4	57.0	44.1	33.7	28.5	18.1	10.4	5.2	5.2
77.5°	33.7	36.3	38.9	41.5	36.3	31.1	23.3	13.0	2.6	0.0	0.0
80°	25.9	28.5	33.7	36.3	38.9	41.5	31.1	13.0	2.6	0.0	0.0
82.5°	28.5	31.1	38.9	36.3	36.3	36.3	28.5	13.0	2.6	0.0	0.0
85°	5.2	7.8	13.0	13.0	18.1	23.3	18.1	5.2	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)