

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: P533781

Luminaire Tested: **GALN-SA9B-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533781  
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-SA9B-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA 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: 25762 lumens  
Efficiency: N/A  
Efficacy: 70.8 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

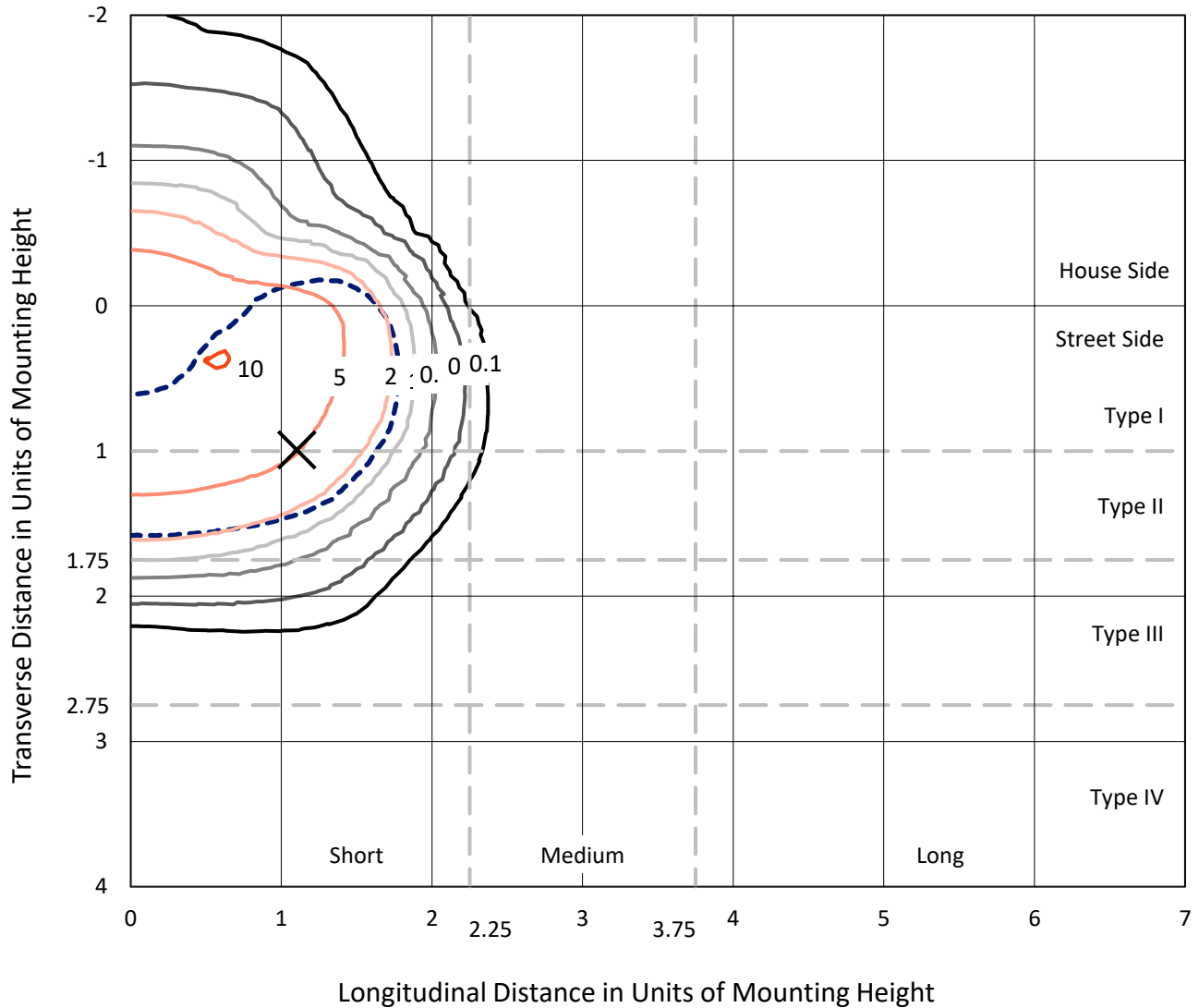
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

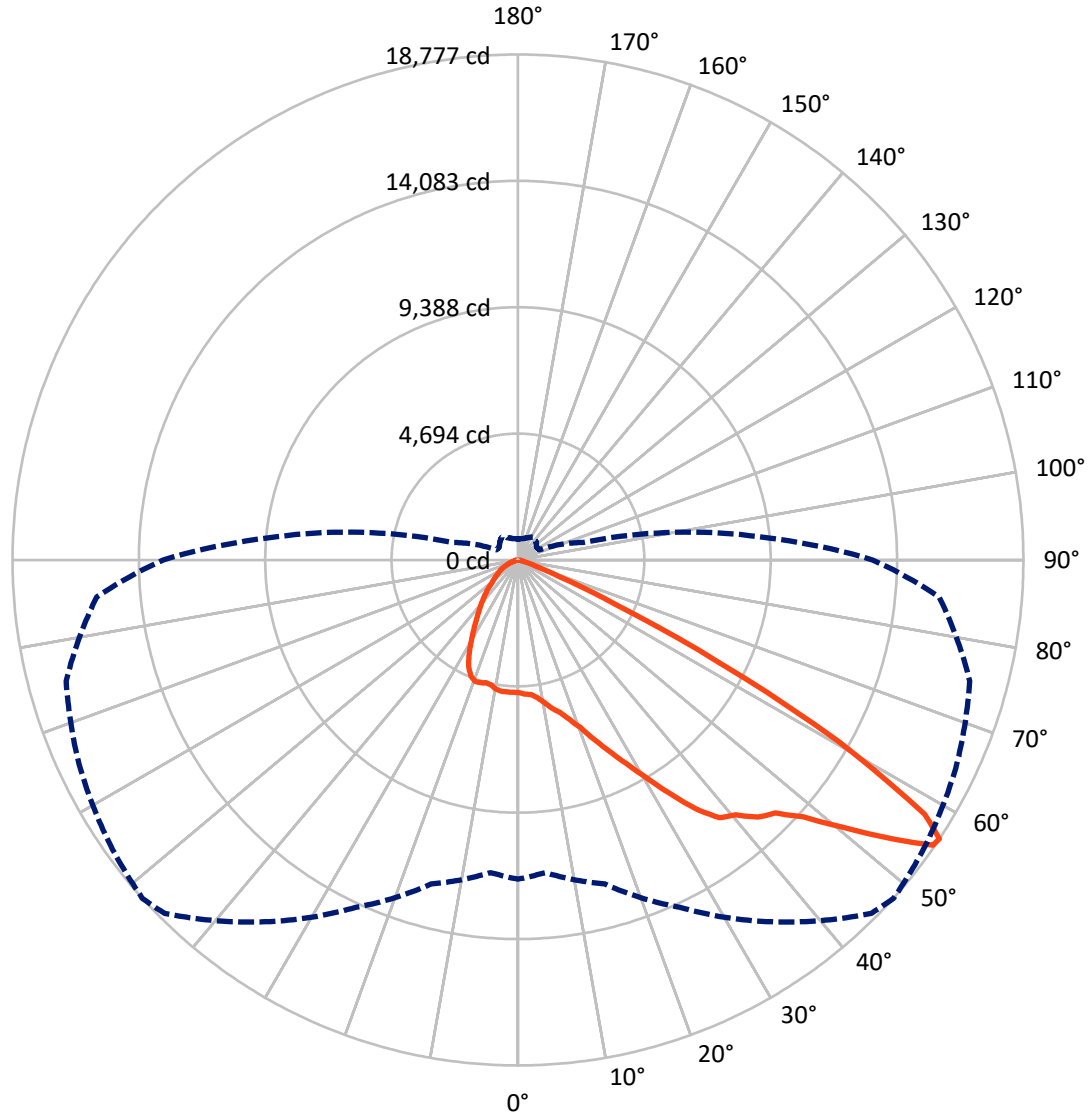
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 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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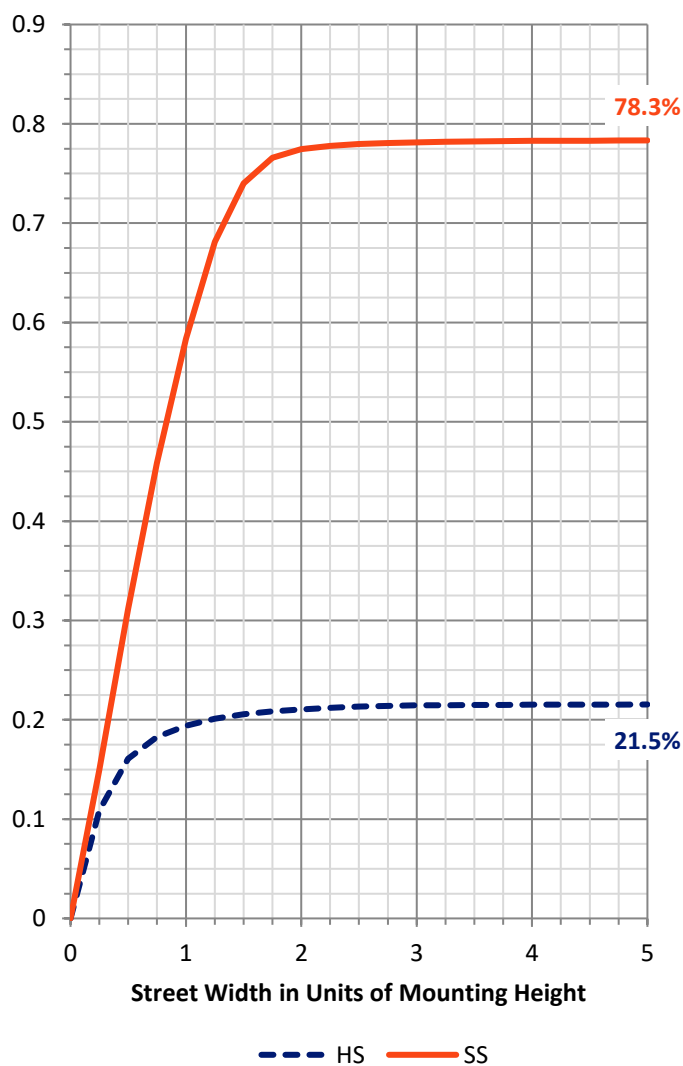
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5602.8	0.0	5602.8
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	20159.3	0.0	20159.3
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	25762.0	0.0	25762.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	479.3	1.9
10°-20°	1531.8	5.9
20°-30°	2778.4	10.8
30°-40°	4364.3	16.9
40°-50°	6366.7	24.7
50°-60°	7670.7	29.8
60°-70°	2245.9	8.7
70°-80°	284.9	1.1
80°-90°	40.0	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°	25762.0	100.0
0°-180°	25762.0	100.0

**Coefficient of Utilization**

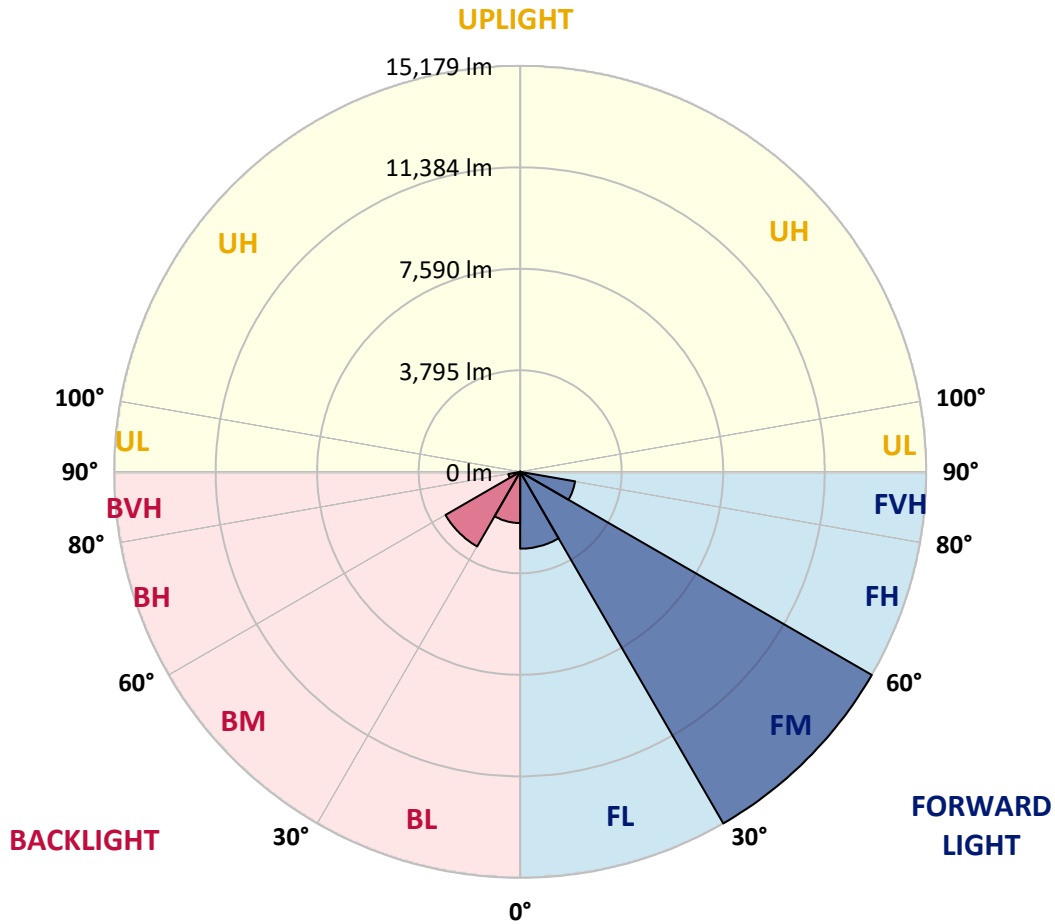


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2874.5	11.2			
FM (30°-60°)	15179.0	58.9			
FH (60°-80°)	2085.6	8.1			G2/5000
FVH (80°-90°)	20.1	0.1			G1/100
BL (0°-30°)	1915.0	7.4	B3/2500		
BM (30°-60°)	3222.7	12.5	B3/5000		
BH (60°-80°)	445.2	1.7	B1/500		G1/500
BVH (80°-90°)	19.9	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°	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6
2.5°	5009.7	4986.2	4986.2	4948.7	4990.9	4972.2	4986.2	4939.3	4986.2	4915.9	4972.2
5°	5033.1	5037.8	5019.1	5042.5	5042.5	5070.7	5023.7	5066.0	5089.4	5037.8	5014.4
7.5°	5155.1	5164.5	5159.8	5141.0	5178.5	5173.9	5169.2	5136.3	5145.7	5126.9	5098.8
10°	5394.3	5389.6	5413.1	5366.2	5338.0	5370.9	5380.2	5328.6	5291.1	5277.0	5187.9
12.5°	5741.4	5685.1	5652.3	5605.4	5619.5	5572.6	5657.0	5567.9	5549.1	5464.7	5375.6
15°	6022.9	6013.5	6018.2	5943.1	5858.7	5877.5	5877.5	5830.6	5802.4	5699.2	5572.6
17.5°	6599.8	6402.8	6445.0	6351.2	6280.9	6276.2	6234.0	6243.3	6168.3	5952.5	5760.2
20°	7050.1	6965.7	6900.0	6740.5	6632.7	6665.5	6646.7	6599.8	6576.4	6294.9	6022.9
22.5°	7453.5	7481.7	7373.8	7331.6	7181.5	7195.5	7233.1	7190.9	7012.6	6721.8	6318.4
25°	8021.1	7988.3	7842.9	7791.3	7650.5	7702.1	7847.6	7814.7	7702.1	7176.8	6548.2
27.5°	8691.9	8579.3	8607.4	8372.9	8236.9	8382.3	8555.9	8720.0	8401.1	7711.5	6820.3
30°	9165.6	9048.4	9039.0	9029.6	8996.8	9165.6	9367.3	9517.4	9259.5	8246.3	7270.6
32.5°	9400.2	9428.3	9508.1	9479.9	9766.1	10113.2	10324.2	10540.0	10216.4	9118.7	7866.3
35°	10024.0	9845.8	10024.0	10042.8	10338.3	11074.8	11342.1	11858.1	11778.4	10352.4	8593.4
37.5°	10389.9	10375.8	10399.3	10577.5	10863.7	11773.7	12153.6	12552.3	12402.2	11093.5	9498.7
40°	10995.0	11032.5	11027.9	11163.9	11478.2	12299.0	12453.8	12777.5	12791.6	12120.8	10830.8
42.5°	11966.0	11815.9	11717.4	11858.1	12299.0	12754.0	13063.6	12998.0	13462.3	13368.5	12543.0
45°	12838.5	12927.6	12782.2	13016.7	13176.2	13420.1	13410.7	13551.5	14142.5	14588.1	13832.9
47.5°	13654.7	13710.9	13781.3	13940.8	14287.9	14325.4	14245.7	14184.7	15000.9	15460.6	14832.0
50°	14142.5	14194.1	14522.4	14808.6	15455.9	15540.3	15587.2	15432.4	15985.9	16037.5	15774.9
52.5°	14011.1	14067.4	14527.1	15470.0	16501.9	17275.9	17135.2	16872.5	16839.6	17041.3	16647.3
55°	12847.9	12796.3	13429.5	14897.7	16830.3	18687.8	18706.5	18429.8	17899.7	17763.7	16516.0
56°	11858.1	11656.4	12463.2	14236.3	16408.1	18565.8	18776.9	18481.4	17984.2	17374.4	15704.5
57.5°	9714.5	9906.8	10708.9	12177.1	14949.3	17688.7	17810.6	17740.3	17365.0	16342.4	13818.8
60°	5356.8	5694.5	6402.8	8199.4	10643.2	13574.9	13673.4	14245.7	14316.0	12514.8	9508.1
62.5°	2275.0	2237.5	2973.9	4296.7	6060.4	8194.7	8377.6	8963.9	9071.8	7214.3	4770.5
65°	924.1	975.7	1346.2	2162.4	3203.8	3733.8	3991.8	4184.1	4540.6	2978.6	1759.0
67.5°	609.8	605.1	792.7	1233.7	1726.2	1665.2	1665.2	1759.0	1627.7	1214.9	759.9
70°	436.2	450.3	567.6	853.7	1074.2	797.4	764.6	731.8	830.3	802.1	614.5
72.5°	286.1	304.9	379.9	511.3	558.2	436.2	436.2	525.4	684.8	647.3	501.9
75°	187.6	192.3	234.5	295.5	276.8	225.2	248.6	351.8	497.2	478.5	356.5
77.5°	126.6	131.3	159.5	192.3	154.8	126.6	136.0	178.2	243.9	243.9	187.6
80°	46.9	51.6	65.7	61.0	70.4	89.1	98.5	122.0	145.4	145.4	126.6
82.5°	0.0	4.7	14.1	32.8	51.6	70.4	79.7	93.8	107.9	122.0	117.3
85°	0.0	4.7	14.1	23.5	37.5	42.2	46.9	32.8	28.1	28.1	23.5
87.5°	0.0	0.0	4.7	4.7	4.7	4.7	4.7	4.7	9.4	4.7	4.7
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°	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6	4920.6
2.5°	4920.6	4915.9	4915.9	4901.8	4929.9	4915.9	4925.2	4920.6	4859.6	4906.5	4873.6
5°	4972.2	5005.0	4953.4	4944.0	4906.5	4920.6	4920.6	4873.6	4915.9	4911.2	4901.8
7.5°	5103.5	5047.2	4990.9	4934.6	4925.2	4911.2	4859.6	4840.8	4873.6	4836.1	4892.4
10°	5159.8	5169.2	5084.7	5009.7	4939.3	4840.8	4770.5	4728.2	4676.6	4732.9	4765.8
12.5°	5417.8	5324.0	5178.5	5061.3	4822.0	4723.5	4653.2	4634.4	4723.5	4742.3	4709.5
15°	5506.9	5492.8	5305.2	5042.5	4793.9	4676.6	4690.7	4653.2	4662.6	4615.7	4625.0
17.5°	5689.8	5530.3	5309.9	4981.5	4789.2	4761.1	4676.6	4526.5	4442.1	4404.6	4437.4
20°	5891.5	5736.7	5417.8	5005.0	4831.4	4756.4	4479.6	4296.7	4123.1	4029.3	4034.0
22.5°	6069.8	5877.5	5370.9	5014.4	4869.0	4559.4	4226.3	3865.1	3649.4	3504.0	3508.6
25°	6285.5	6013.5	5389.6	5033.1	4770.5	4245.1	3766.6	3414.8	3156.8	3058.3	3091.2
27.5°	6407.5	6097.9	5492.8	5075.3	4512.5	3799.5	3283.5	2955.1	2805.0	2758.1	2753.4
30°	6773.4	6285.5	5619.5	4990.9	4080.9	3321.0	2842.6	2640.9	2495.5	2453.2	2462.6
32.5°	7317.5	6628.0	5783.6	4770.5	3640.0	2894.2	2556.4	2406.3	2270.3	2190.6	2181.2
35°	7772.5	7214.3	5957.2	4428.0	3128.7	2565.8	2354.7	2167.1	1960.7	1871.6	1848.1
37.5°	8640.3	7875.7	5919.7	3912.1	2640.9	2321.9	2139.0	1909.1	1730.9	1608.9	1594.8
40°	9794.2	8649.7	5736.7	3283.5	2279.7	2106.1	1909.1	1688.7	1468.2	1365.0	1355.6
42.5°	11196.7	9597.2	5403.7	2645.6	1918.5	1890.4	1712.1	1458.8	1261.8	1186.7	1191.4
45°	12336.6	10408.7	5066.0	2124.9	1651.1	1679.3	1524.5	1285.3	1149.2	1088.2	1088.2
47.5°	13349.8	10957.5	4700.1	1754.3	1402.5	1468.2	1332.2	1191.4	1074.2	1027.3	1017.9
50°	14325.4	11515.7	4334.2	1421.3	1196.1	1261.8	1247.7	1135.2	1041.3	985.0	989.7
52.5°	14935.2	11604.8	3869.8	1163.3	1046.0	1121.1	1168.0	1064.8	961.6	928.8	919.4
55°	14189.4	10455.6	3002.1	956.9	886.5	985.0	1074.2	956.9	877.2	820.9	816.2
56°	13185.6	9348.6	2509.5	881.9	839.6	947.5	1041.3	914.7	825.6	792.7	769.3
57.5°	11163.9	7650.5	1852.8	783.3	778.7	881.9	989.7	872.5	769.3	741.1	741.1
60°	6961.0	4306.1	1121.1	656.7	675.5	783.3	891.2	778.7	684.8	684.8	698.9
62.5°	3170.9	1791.9	680.2	558.2	581.6	675.5	792.7	703.6	652.0	703.6	713.0
65°	1078.9	774.0	492.5	445.6	459.7	558.2	680.2	713.0	708.3	741.1	759.9
67.5°	605.1	497.2	412.8	370.6	361.2	412.8	558.2	713.0	684.8	670.8	680.2
70°	511.3	422.2	365.9	328.3	314.3	333.0	431.5	539.4	483.1	469.1	459.7
72.5°	412.8	351.8	319.0	295.5	253.3	215.8	197.0	206.4	229.8	243.9	267.4
75°	290.8	267.4	267.4	239.2	182.9	136.0	107.9	89.1	61.0	42.2	46.9
77.5°	164.2	164.2	168.9	145.4	117.3	89.1	65.7	46.9	23.5	9.4	4.7
80°	112.6	122.0	131.3	117.3	98.5	79.7	56.3	32.8	14.1	0.0	0.0
82.5°	112.6	126.6	136.0	117.3	98.5	75.1	56.3	32.8	14.1	4.7	0.0
85°	23.5	28.1	32.8	37.5	56.3	56.3	42.2	28.1	14.1	4.7	0.0
87.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	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)