

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: P531015

Luminaire Tested: **GALN-SA6B-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P531015  
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-SA6B-735-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3500K, 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: 18382 lumens  
Efficiency: N/A  
Efficacy: 75.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

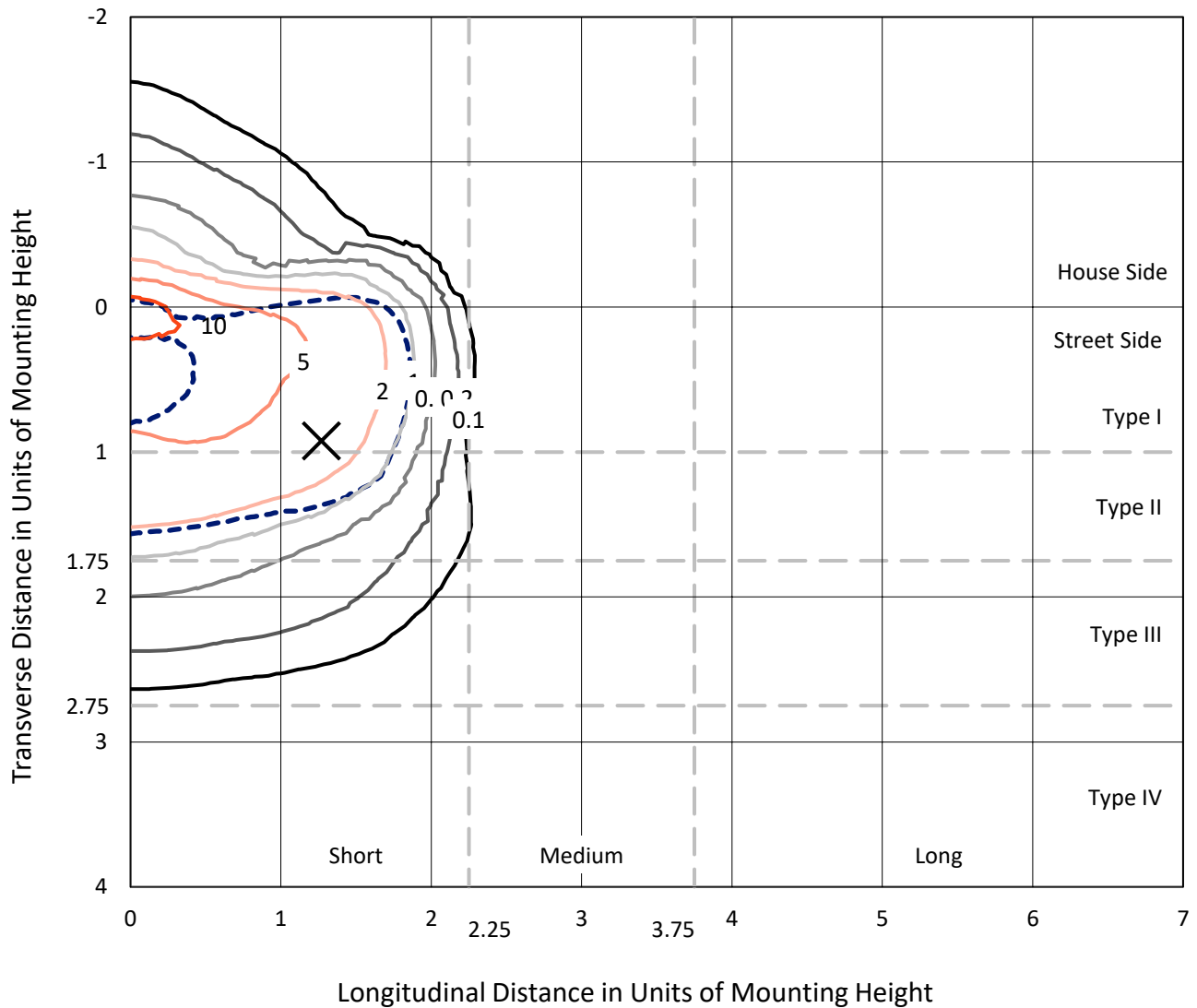
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

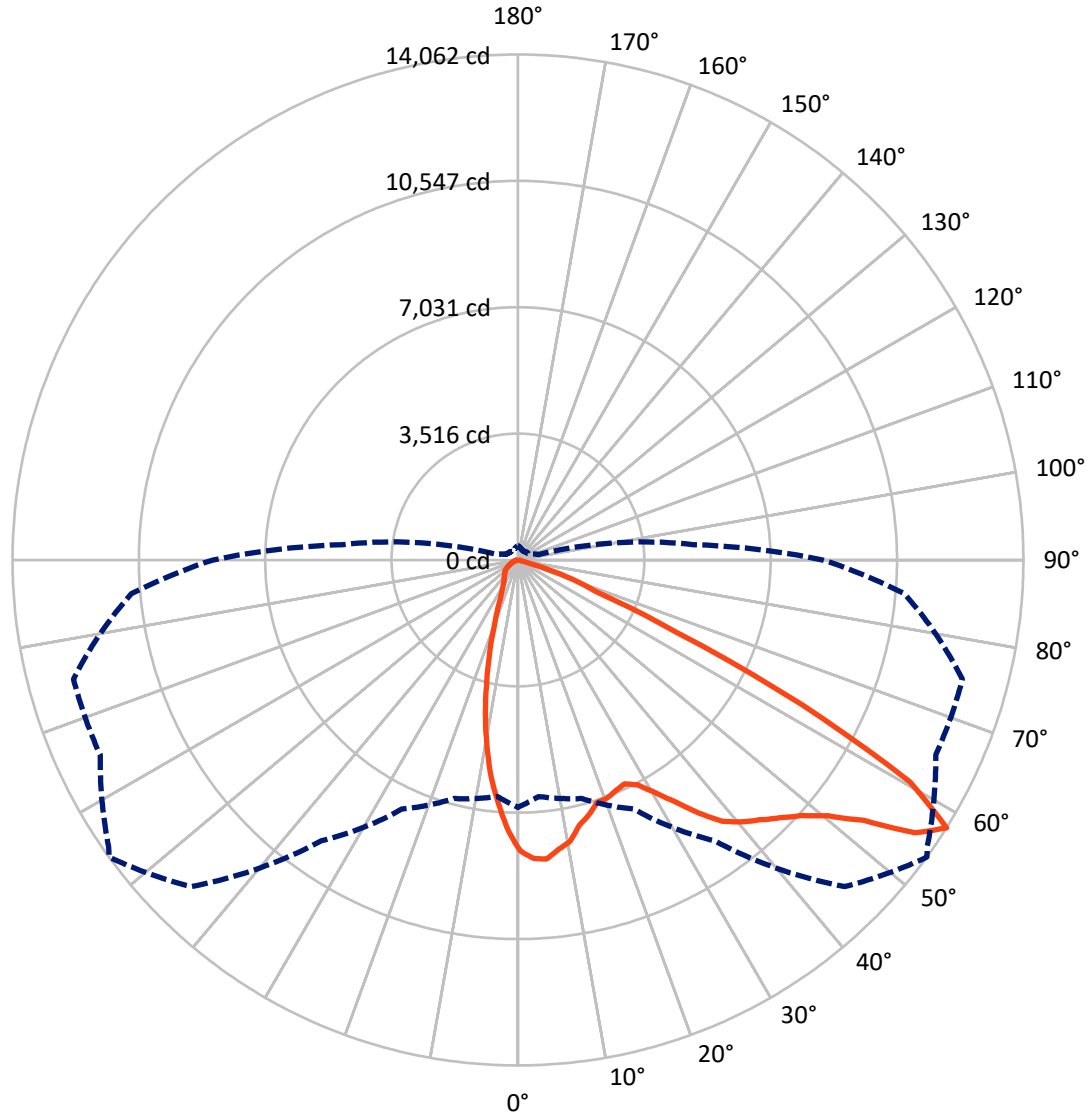
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	2597.7	0.0	2597.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	15784.3	0.0	15784.3
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	18382.0	0.0	18382.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	677.6	3.7
10°-20°	1446.7	7.9
20°-30°	1917.2	10.4
30°-40°	2786.2	15.2
40°-50°	4131.5	22.5
50°-60°	5166.3	28.1
60°-70°	2037.9	11.1
70°-80°	202.9	1.1
80°-90°	15.8	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°	18382.0	100.0
0°-180°	18382.0	100.0



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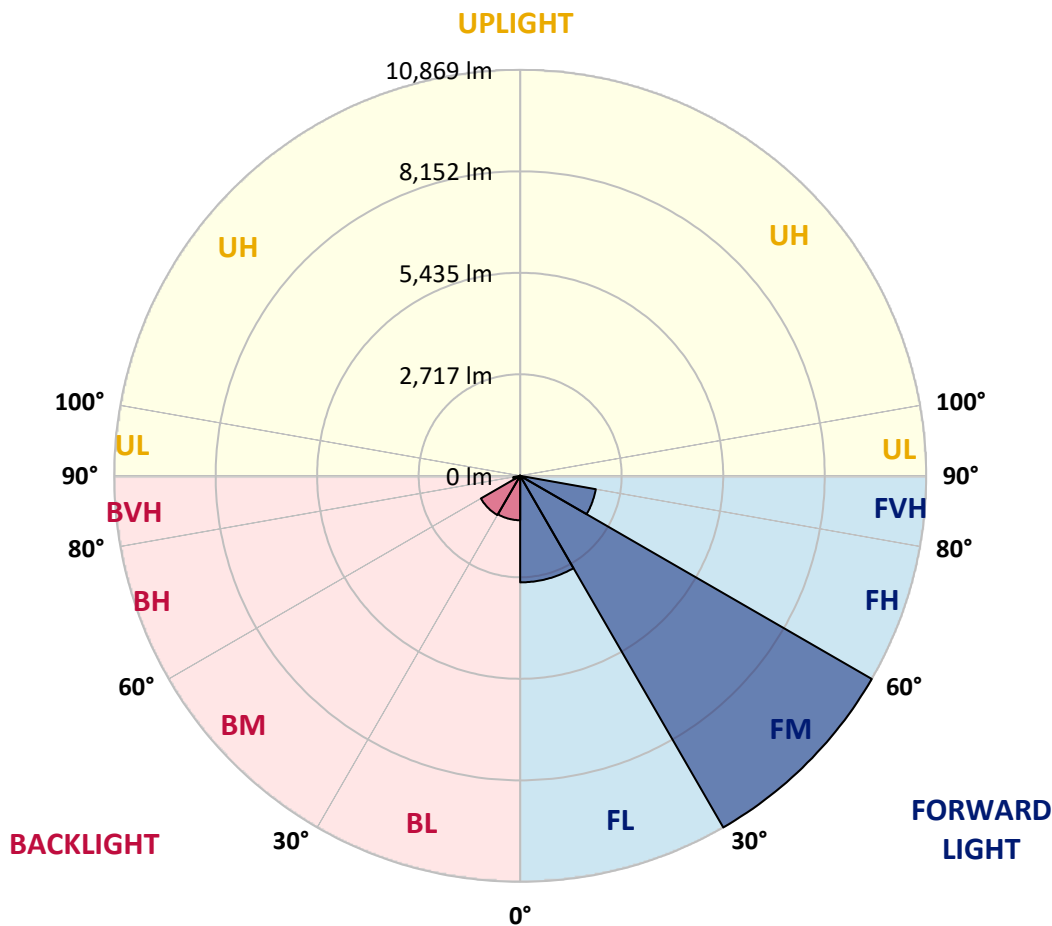
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2853.4	15.5			
FM (30°-60°)	10869.2	59.1			
FH (60°-80°)	2054.5	11.2			G2/5000
FVH (80°-90°)	7.2	0.0			G0/10
BL (0°-30°)	1188.1	6.5	B3/2500		
BM (30°-60°)	1214.7	6.6	B2/2500		
BH (60°-80°)	186.3	1.0	B1/500		G1/500
BVH (80°-90°)	8.6	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°	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5
2.5°	8569.2	8480.3	8487.2	8456.4	8415.4	8446.2	8312.9	8343.6	8340.2	8159.0	8039.4
5°	8353.9	8449.6	8350.5	8432.5	8353.9	8439.3	8357.3	8295.8	8196.6	8063.3	7841.2
7.5°	7988.1	7895.8	7923.2	8025.7	8042.8	8234.2	8131.7	8210.3	8169.3	7906.1	7601.9
10°	7253.2	7232.7	7369.5	7506.2	7673.7	7878.8	7957.4	7912.9	7882.2	7783.1	7376.3
12.5°	6689.3	6747.4	6743.9	6969.5	7253.2	7369.5	7574.5	7567.7	7738.6	7554.0	7164.4
15°	6152.6	6183.4	6326.9	6467.1	6781.5	7113.1	7366.0	7400.2	7605.3	7475.4	7000.3
17.5°	5824.5	5780.0	5892.8	6060.3	6381.6	6815.7	7096.0	7178.0	7458.3	7431.0	6812.3
20°	5499.7	5499.7	5592.0	5790.3	6084.2	6573.0	7072.1	7048.2	7458.3	7379.7	6610.6
22.5°	5390.4	5445.1	5469.0	5619.4	5968.0	6388.5	6969.5	7014.0	7516.4	7355.8	6521.8
25°	5540.8	5469.0	5475.8	5595.5	5923.6	6299.6	6894.3	6993.5	7622.4	7475.4	6450.0
27.5°	5564.7	5636.5	5657.0	5739.0	5957.8	6326.9	7082.3	7284.0	7885.6	7755.7	6470.5
30°	5773.2	5845.0	5841.6	5981.7	6132.1	6549.1	7502.8	7543.8	8429.1	8107.8	6597.0
32.5°	6026.1	6101.3	6125.3	6289.3	6409.0	6955.9	8015.5	8121.4	8952.0	8661.5	6928.5
35°	6340.6	6313.3	6422.6	6586.7	6843.1	7550.6	8641.0	8818.7	9516.0	9379.3	7270.3
37.5°	6733.7	6699.5	6805.5	7072.1	7420.7	8254.8	9218.7	9334.9	9926.2	10045.8	7902.7
40°	7010.6	7024.2	7345.5	7704.4	8073.6	8924.7	9584.4	9697.2	10213.3	10667.9	8381.2
42.5°	7472.0	7557.5	7943.7	8381.2	8767.5	9427.2	9881.8	9991.2	10346.6	11167.0	9027.2
45°	8142.0	8104.4	8531.6	9020.4	9447.7	9950.1	10233.8	10196.2	10425.3	11662.6	9434.0
47.5°	9003.3	9010.2	9293.9	9710.9	10155.2	10404.7	10626.9	10493.6	10589.3	12185.6	9977.5
50°	9591.2	9642.5	9871.5	10298.8	10521.0	10903.8	11187.5	11105.5	11074.7	12500.1	10319.3
52.5°	9741.6	9895.4	10018.5	10551.7	11071.3	11676.3	12038.6	12212.9	11666.0	12606.0	10753.4
55°	8606.8	8743.5	9177.6	9909.1	11279.8	12900.0	13399.0	13402.4	12438.5	13077.7	11057.6
57.5°	6880.7	6603.8	6870.4	7646.3	9536.5	12848.7	14062.1	13901.5	12824.8	12800.8	10794.4
60°	4758.0	4689.7	4706.7	5014.4	6600.4	10220.2	12530.8	12739.3	11809.6	11095.2	8545.3
62.5°	3770.2	3712.1	3636.9	3602.7	4098.3	6368.0	8839.2	9133.2	8258.2	7195.1	5065.6
65°	2953.3	2919.1	2929.3	3066.1	3062.6	3612.9	4833.2	4713.6	3773.6	2789.2	1592.8
67.5°	1992.8	2044.0	2085.1	2498.6	2710.6	2515.7	2334.6	2266.2	1227.1	516.1	352.1
70°	1121.1	1128.0	1172.4	1562.1	2057.7	1951.7	1609.9	1609.9	611.8	188.0	201.7
72.5°	611.8	591.3	550.3	673.4	916.1	929.7	717.8	625.5	181.2	123.1	112.8
75°	297.4	294.0	252.9	208.5	198.3	164.1	126.5	116.2	82.0	78.6	68.4
77.5°	61.5	58.1	30.8	30.8	34.2	37.6	47.9	47.9	58.1	58.1	47.9
80°	0.0	0.0	3.4	13.7	23.9	34.2	41.0	41.0	47.9	47.9	37.6
82.5°	0.0	0.0	3.4	10.3	20.5	30.8	37.6	41.0	47.9	51.3	41.0
85°	0.0	0.0	0.0	6.8	17.1	23.9	20.5	20.5	17.1	13.7	6.8
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°	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5	8097.5
2.5°	7977.9	7971.0	7813.8	7724.9	7564.3	7424.1	7311.4	7229.3	7229.3	7178.0	7130.2
5°	7752.3	7694.2	7359.2	7143.9	6839.7	6614.1	6460.2	6340.6	6152.6	6203.9	6002.2
7.5°	7472.0	7325.0	6880.7	6552.5	6132.1	5810.8	5482.7	5192.1	4911.8	4785.4	4853.7
10°	7171.2	6914.9	6316.7	5797.1	5274.2	4686.2	4303.4	3838.5	3551.4	3534.3	3459.1
12.5°	6853.3	6562.8	5834.7	5116.9	4429.9	3722.3	3137.8	2703.7	2508.9	2293.6	2334.6
15°	6614.1	6183.4	5298.1	4433.3	3520.7	2806.3	2218.4	1883.4	1698.8	1647.5	1630.4
17.5°	6354.3	5892.8	4751.2	3705.2	2761.8	2020.1	1596.3	1435.6	1363.8	1363.8	1353.6
20°	6084.2	5564.7	4207.7	3028.5	2071.4	1507.4	1278.4	1227.1	1223.7	1220.3	1220.3
22.5°	5906.5	5188.7	3715.5	2406.4	1562.1	1206.6	1110.9	1090.4	1104.1	1145.1	1145.1
25°	5718.5	4826.4	3172.0	1856.0	1210.0	1035.7	981.0	994.7	1028.9	1066.5	1052.8
27.5°	5527.1	4590.5	2659.3	1456.1	991.3	905.8	885.3	916.1	953.7	987.8	977.6
30°	5482.7	4337.6	2173.9	1104.1	851.1	789.6	803.3	830.6	868.2	881.9	895.5
32.5°	5551.0	4139.3	1780.8	905.8	741.7	724.6	724.6	738.3	762.2	793.0	782.7
35°	5745.9	4026.5	1408.3	786.2	680.2	663.1	659.7	673.4	687.0	697.3	687.0
37.5°	6043.2	3937.7	1151.9	697.3	639.2	611.8	605.0	601.6	615.3	618.7	625.5
40°	6422.6	3985.5	977.6	642.6	598.2	567.4	546.9	546.9	546.9	557.2	560.6
42.5°	6832.8	4050.5	844.3	611.8	560.6	523.0	502.5	495.6	502.5	516.1	512.7
45°	7263.5	4176.9	758.8	564.0	526.4	478.5	451.2	444.4	461.4	488.8	485.4
47.5°	7666.8	4358.1	693.9	533.2	492.2	447.8	413.6	406.8	437.5	475.1	478.5
50°	8070.2	4672.6	670.0	509.3	468.3	417.0	386.2	379.4	413.6	461.4	471.7
52.5°	8535.0	5011.0	652.9	478.5	440.9	393.1	358.9	352.1	389.7	451.2	454.6
55°	8839.2	5298.1	639.2	423.8	389.7	355.5	328.1	324.7	365.7	420.4	434.1
57.5°	8483.8	4898.2	591.3	369.2	331.6	314.5	290.5	290.5	324.7	376.0	386.2
60°	6432.9	3223.3	420.4	297.4	280.3	270.0	259.8	259.8	287.1	324.7	328.1
62.5°	3766.8	1736.4	270.0	239.3	239.3	229.0	211.9	211.9	239.3	259.8	263.2
65°	1117.7	557.2	218.8	205.1	201.7	184.6	167.5	164.1	184.6	194.8	191.4
67.5°	321.3	256.4	181.2	170.9	167.5	140.1	129.9	126.5	129.9	123.1	119.6
70°	191.4	174.3	140.1	143.6	126.5	102.5	92.3	88.9	82.0	71.8	64.9
72.5°	106.0	106.0	102.5	109.4	88.9	68.4	58.1	47.9	37.6	30.8	27.3
75°	64.9	68.4	71.8	75.2	58.1	44.4	37.6	23.9	13.7	6.8	6.8
77.5°	44.4	47.9	51.3	54.7	47.9	41.0	30.8	17.1	3.4	0.0	0.0
80°	34.2	37.6	44.4	47.9	51.3	54.7	41.0	17.1	3.4	0.0	0.0
82.5°	37.6	41.0	51.3	47.9	47.9	47.9	37.6	17.1	3.4	0.0	0.0
85°	6.8	10.3	17.1	17.1	23.9	30.8	23.9	6.8	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)