

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: P533587

Luminaire Tested: **GALN-SA9A-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533587
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-SA9A-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 615mA 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: 22542 lumens
Efficiency: N/A
Efficacy: 82.3 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

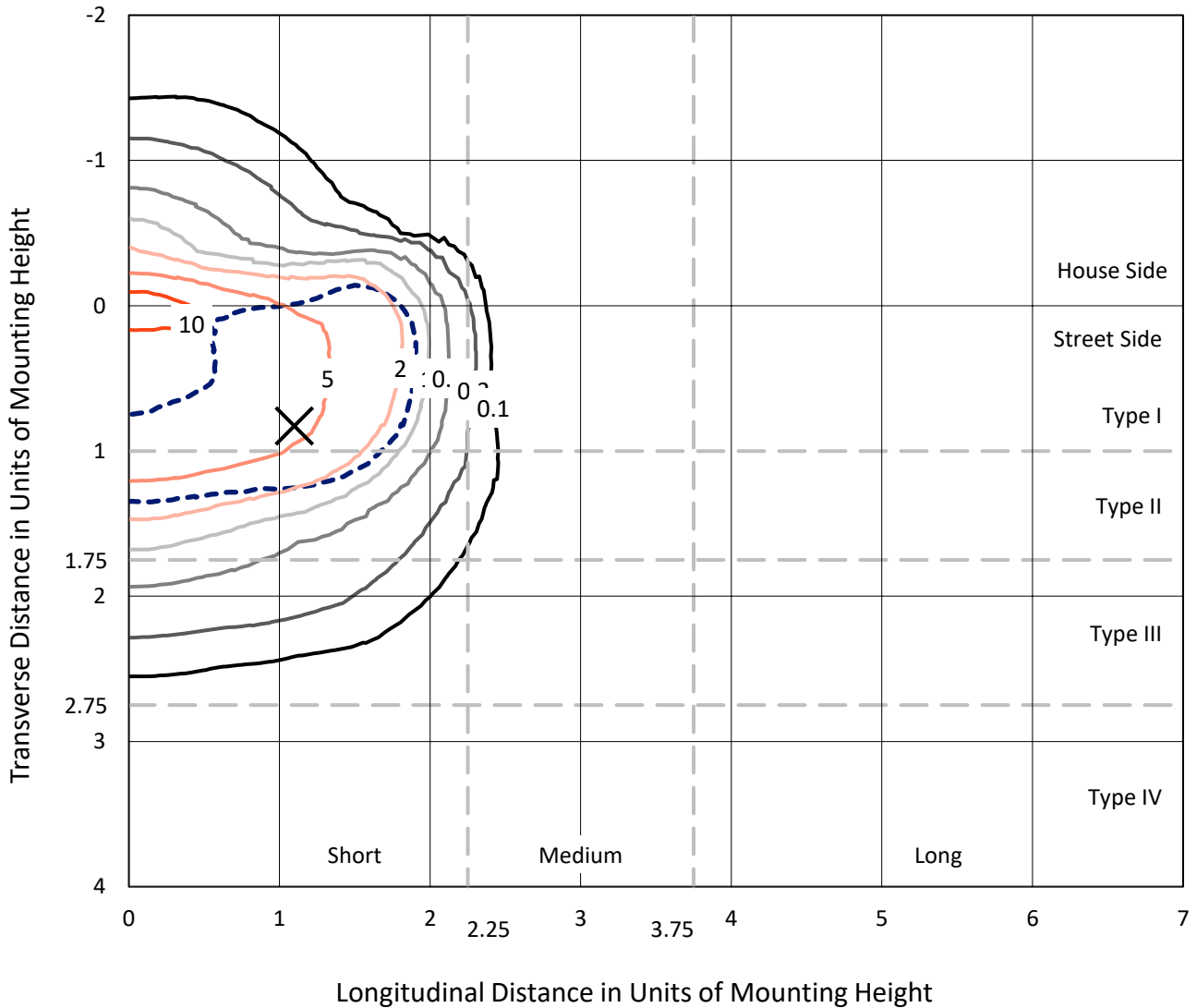
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

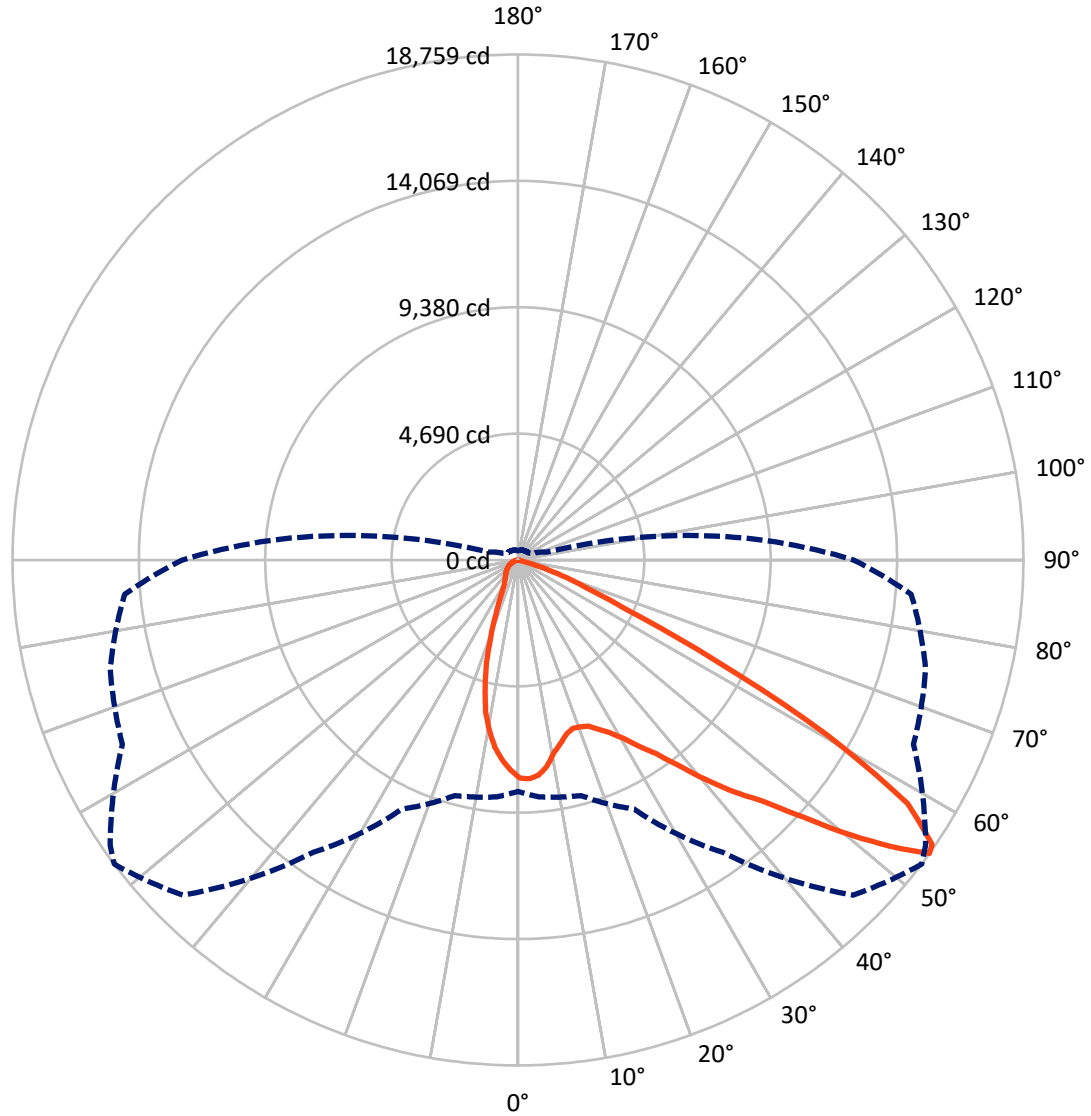
✕ Max cd
 - - - 1/2 Max cd



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 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3729.7	0.0	3729.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	18812.4	0.0	18812.4
	% Fixture	83.5	0.0	83.5
Total	Lumens	22542.0	0.0	22542.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	694.7	3.1
10°-20°	1592.7	7.1
20°-30°	2263.5	10.0
30°-40°	3493.2	15.5
40°-50°	5477.1	24.3
50°-60°	6362.4	28.2
60°-70°	2404.1	10.7
70°-80°	228.6	1.0
80°-90°	25.7	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°	22542.0	100.0
0°-180°	22542.0	100.0

Coefficient of Utilization



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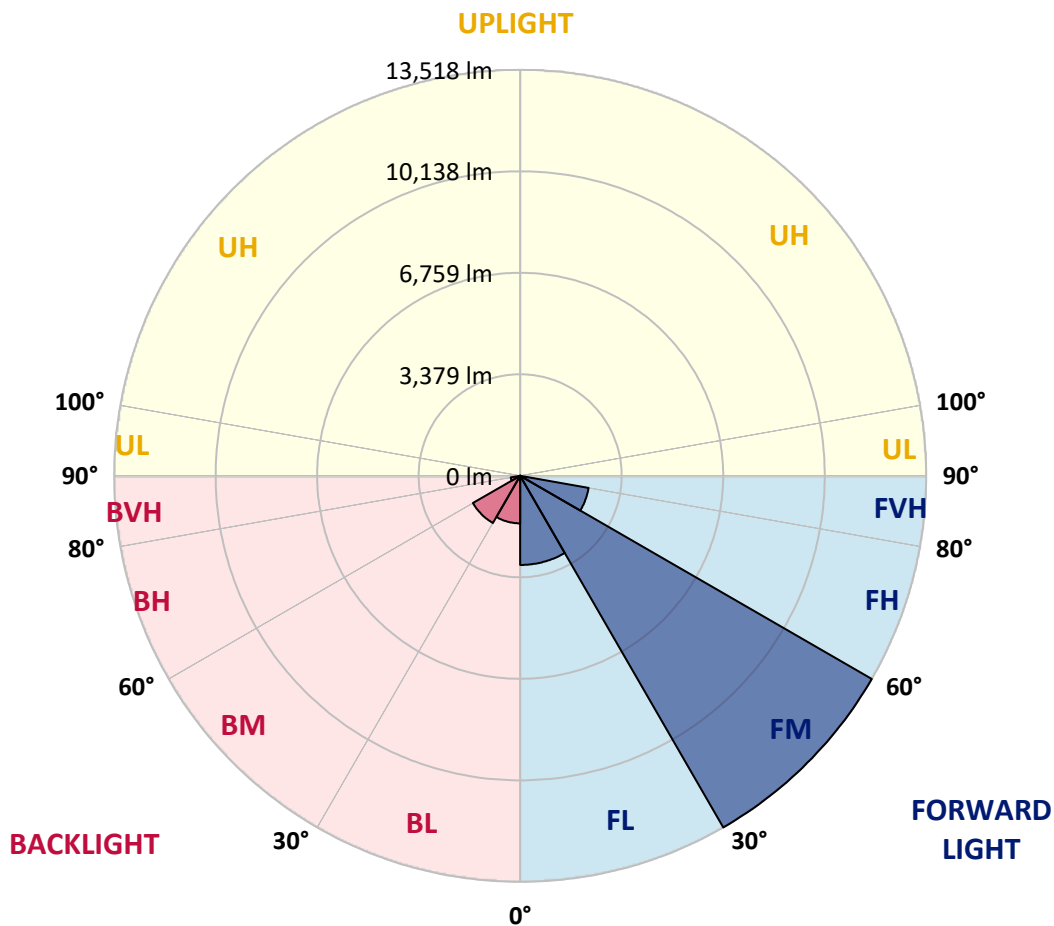
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2968.2	13.2			
FM (30°-60°)	13517.7	60.0			
FH (60°-80°)	2313.2	10.3			G2/5000
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	1582.7	7.0	B3/2500		
BM (30°-60°)	1814.9	8.1	B2/2500		
BH (60°-80°)	319.6	1.4	B1/500		G1/500
BVH (80°-90°)	12.4	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°	53°	55°	65°	75°	85°
0°	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7
2.5°	8054.7	7983.3	8054.7	8063.1	8113.5	8159.7	8130.3	8197.5	8159.7	8117.7	8105.1
5°	7403.8	7500.4	7504.6	7655.8	7622.2	7899.3	8021.1	7987.5	8193.3	8180.7	8151.3
7.5°	6820.0	6782.3	6832.6	7009.0	7231.6	7550.8	7727.1	7722.9	8016.9	8226.9	8205.9
10°	6278.3	6274.1	6379.1	6517.7	6706.7	7042.6	7286.2	7408.0	7865.7	8184.9	8231.1
12.5°	5912.9	5896.1	6009.5	6122.9	6421.1	6681.5	6992.2	7051.0	7576.0	8037.9	8113.5
15°	5673.6	5711.4	5719.8	5938.1	6127.1	6471.5	6715.1	6836.8	7441.6	7920.3	8210.1
17.5°	5631.6	5682.0	5686.2	5866.8	6068.3	6358.1	6572.3	6736.1	7328.2	7979.1	8214.3
20°	5715.6	5686.2	5711.4	5824.8	6022.1	6299.3	6610.1	6664.7	7290.4	8008.5	8260.5
22.5°	5954.9	5946.5	5883.6	5975.9	6114.5	6404.3	6698.3	6782.3	7399.6	8159.7	8298.3
25°	6219.5	6265.7	6206.9	6194.3	6290.9	6576.5	6967.0	7076.2	7764.9	8432.7	8415.9
27.5°	6715.1	6668.9	6668.9	6610.1	6584.9	6723.5	7256.8	7437.4	8172.3	8785.4	8550.3
30°	7189.6	7240.0	7202.2	7223.2	7055.2	7042.6	7668.4	7890.9	8894.6	9323.0	8835.8
32.5°	7941.3	7874.1	7937.1	7882.5	7660.0	7433.2	8226.9	8457.9	9768.1	9940.3	9264.2
35°	8567.1	8537.7	8806.4	8798.0	8436.9	8214.3	8819.0	9163.4	10377.1	10679.4	9768.1
37.5°	9457.4	9402.8	9709.3	9856.3	9532.9	9201.2	9667.3	10066.3	10944.0	11271.6	10284.7
40°	10372.9	10511.4	10923.0	11166.6	10822.2	10381.3	10704.6	10826.4	11322.0	11657.9	10637.4
42.5°	11531.9	11733.5	12153.5	12363.4	12334.0	11855.3	11758.7	11754.5	11594.9	11548.7	10897.8
45°	12644.8	12569.2	13215.9	13673.7	14043.2	13904.7	12775.0	12649.0	12027.5	11712.5	10965.0
47.5°	13132.0	13106.8	13547.7	14362.4	15622.3	15794.5	14253.2	13766.1	12758.2	12401.2	11330.3
50°	12502.0	12632.2	13069.0	13971.9	15903.6	17218.1	16067.4	15412.3	13610.7	13241.1	12195.5
52.5°	10444.2	10532.4	10948.2	12094.7	14946.2	18058.0	17806.0	17428.1	15177.1	14564.0	13703.1
54°	8588.1	8823.2	9050.0	10200.7	13241.1	17591.9	18759.3	18469.6	16197.6	15664.3	14652.2
55°	7479.4	7618.0	7781.7	8928.2	12061.1	16802.3	18650.1	18675.3	16882.1	16008.6	15290.5
57.5°	5463.6	5560.2	5392.2	5900.3	8281.5	13644.3	17058.5	17738.8	17806.0	16525.2	15681.1
60°	4174.3	4216.3	4027.4	4107.1	5148.6	9365.0	13194.9	14013.9	16063.2	14442.2	13283.1
62.5°	3237.8	3246.2	3242.0	3380.6	3548.6	5509.8	8252.1	8978.6	11074.2	10255.3	9020.6
65°	2385.3	2347.5	2414.7	2834.7	3027.9	3464.6	4346.5	4875.7	6017.9	5081.4	3632.6
67.5°	1545.4	1558.0	1625.2	2108.2	2595.3	2658.3	2675.1	2633.1	2637.3	1453.0	911.3
70°	928.1	949.1	928.1	1192.7	1856.2	1906.6	1742.8	1700.8	1327.1	344.4	340.2
72.5°	550.1	520.7	466.1	512.3	772.7	923.9	831.5	827.3	520.7	201.6	201.6
75°	231.0	210.0	172.2	155.4	205.8	197.4	197.4	176.4	138.6	134.4	126.0
77.5°	46.2	46.2	33.6	37.8	50.4	58.8	71.4	71.4	84.0	84.0	79.8
80°	0.0	4.2	12.6	25.2	37.8	54.6	63.0	63.0	71.4	71.4	58.8
82.5°	0.0	4.2	12.6	25.2	33.6	50.4	63.0	63.0	71.4	75.6	63.0
85°	0.0	4.2	12.6	21.0	33.6	42.0	42.0	37.8	29.4	25.2	16.8
87.5°	0.0	0.0	4.2	8.4	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7	8096.7
2.5°	8134.5	8130.3	8029.5	7865.7	7827.9	7689.4	7672.6	7588.6	7634.8	7479.4	7462.6
5°	8067.3	8016.9	7895.1	7790.1	7483.6	7265.2	7093.0	6883.0	6761.3	6782.3	6702.5
7.5°	8163.9	8033.7	7819.5	7454.2	7080.4	6698.3	6492.5	6064.1	5908.7	5677.8	5644.2
10°	8063.1	7966.5	7634.8	7030.0	6513.5	5963.3	5480.4	5005.8	4644.7	4489.3	4455.7
12.5°	8054.7	7886.7	7332.4	6660.5	5912.9	5123.4	4422.1	3830.0	3473.0	3271.4	3225.2
15°	7924.5	7722.9	6992.2	6089.3	5056.2	4073.6	3309.2	2738.1	2465.1	2347.5	2381.1
17.5°	7937.1	7634.8	6652.1	5484.6	4212.1	2990.1	2259.4	1965.4	1894.0	1923.4	1923.4
20°	7924.5	7437.4	6240.5	4787.5	3225.2	2074.6	1658.8	1553.8	1600.0	1692.4	1671.4
22.5°	7857.3	7345.0	5862.6	4052.6	2372.7	1537.0	1331.3	1335.5	1406.8	1520.2	1545.4
25°	7907.7	7139.2	5383.8	3309.2	1730.2	1226.3	1154.9	1184.3	1259.9	1343.9	1360.6
27.5°	7869.9	6992.2	4884.1	2570.1	1264.1	1054.1	1049.9	1083.5	1117.1	1180.1	1180.1
30°	7911.9	6857.8	4392.7	1910.8	1041.5	965.9	949.1	974.3	1007.9	1020.5	1016.3
32.5°	8067.3	6757.1	3825.8	1427.8	919.7	881.9	881.9	881.9	877.7	894.5	898.7
35°	8407.5	6773.9	3326.0	1104.5	839.9	810.5	797.9	781.1	772.7	781.1	785.3
37.5°	8777.0	6765.5	2809.5	940.7	781.1	755.9	726.5	701.3	697.1	705.5	692.9
40°	8940.8	6845.2	2330.7	844.1	726.5	697.1	650.9	629.9	634.1	642.5	634.1
42.5°	9163.4	6870.4	2020.0	768.5	676.1	629.9	600.5	575.3	571.1	583.7	579.5
45°	9159.2	6727.7	1692.4	726.5	629.9	579.5	541.7	520.7	520.7	529.1	533.3
47.5°	9428.0	6706.7	1453.0	688.7	596.3	545.9	499.7	482.9	478.7	478.7	470.3
50°	10053.7	7000.6	1268.3	646.7	554.3	508.1	470.3	449.4	432.6	424.2	420.0
52.5°	11275.8	7916.1	1125.5	596.3	508.1	470.3	436.8	420.0	399.0	378.0	373.8
54°	12460.0	8861.0	1117.1	554.3	470.3	445.2	415.8	407.4	382.2	352.8	344.4
55°	12993.4	9411.2	1146.5	520.7	445.2	428.4	403.2	394.8	369.6	336.0	331.8
57.5°	13434.3	9625.3	1129.7	432.6	403.2	399.0	378.0	365.4	336.0	289.8	281.4
60°	10813.8	7277.8	810.5	382.2	369.6	361.2	344.4	336.0	298.2	247.8	243.6
62.5°	6832.6	4186.9	516.5	336.0	323.4	310.8	289.8	281.4	247.8	197.4	184.8
65°	2910.3	1734.4	348.6	298.2	277.2	256.2	239.4	226.8	197.4	147.0	142.8
67.5°	755.9	617.3	289.8	260.4	231.0	201.6	189.0	168.0	134.4	100.8	96.6
70°	340.2	310.8	243.6	218.4	184.8	155.4	138.6	117.6	88.2	67.2	63.0
72.5°	201.6	197.4	184.8	163.8	138.6	117.6	100.8	79.8	58.8	37.8	37.8
75°	126.0	121.8	126.0	113.4	96.6	88.2	75.6	54.6	33.6	16.8	16.8
77.5°	75.6	75.6	75.6	71.4	67.2	67.2	54.6	33.6	16.8	4.2	4.2
80°	58.8	58.8	63.0	58.8	58.8	58.8	46.2	25.2	8.4	0.0	0.0
82.5°	58.8	63.0	71.4	67.2	58.8	50.4	42.0	25.2	8.4	0.0	0.0
85°	16.8	12.6	21.0	29.4	42.0	37.8	29.4	21.0	8.4	0.0	0.0
87.5°	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	4.2	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)