

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: P648540

Luminaire Tested: **GALN-SA7B-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25670.7 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

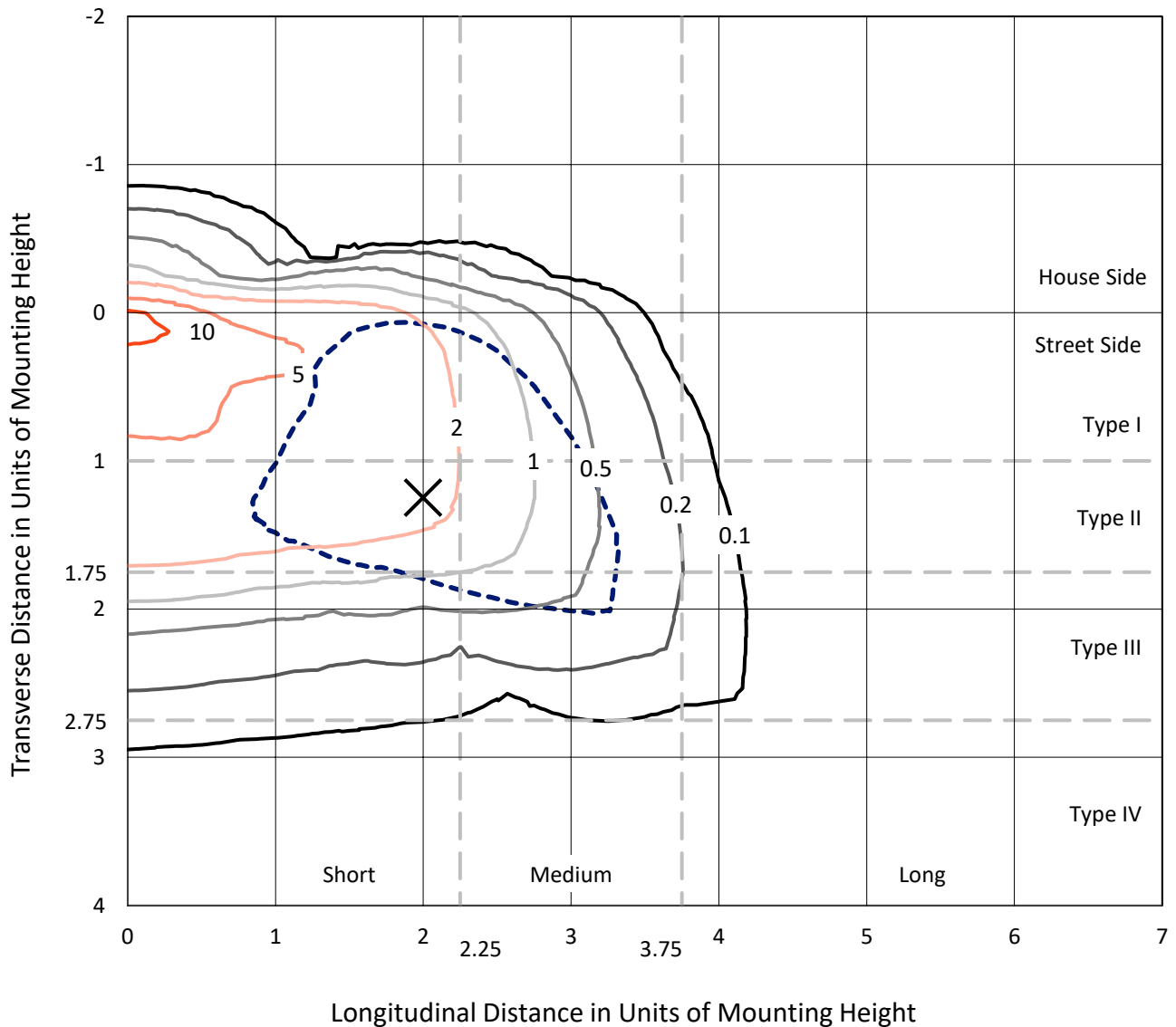
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

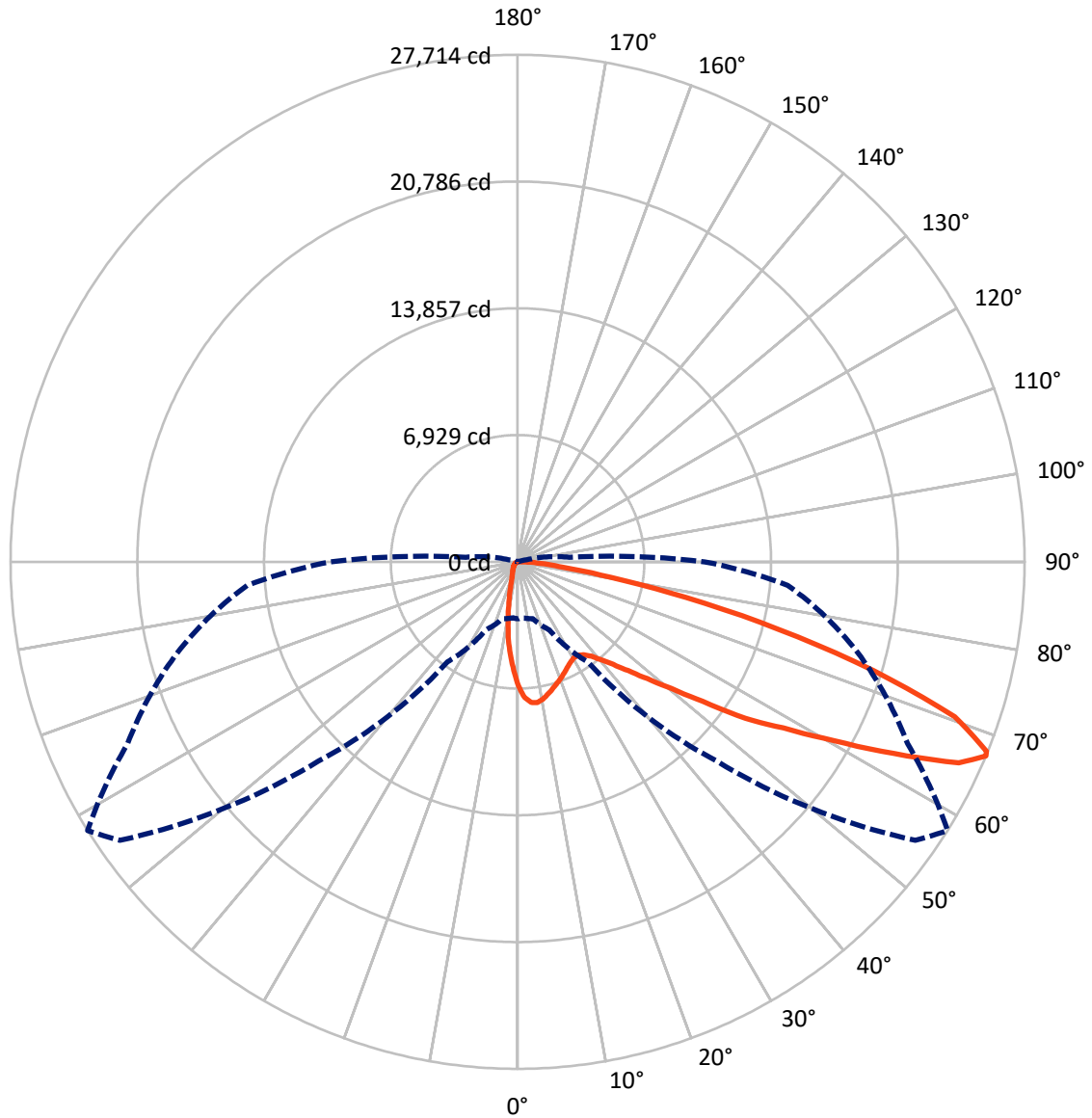
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1852.5	0.0	1852.5
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	23818.1	0.0	23818.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	25670.7	0.0	25670.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	552.2	2.2
10°-20°	1192.6	4.6
20°-30°	1616.1	6.3
30°-40°	2241.5	8.7
40°-50°	3574.9	13.9
50°-60°	6179.5	24.1
60°-70°	7058.9	27.5
70°-80°	2942.9	11.5
80°-90°	312.0	1.2
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°	25670.7	100.0
0°-180°	25670.7	100.0

Coefficient of Utilization

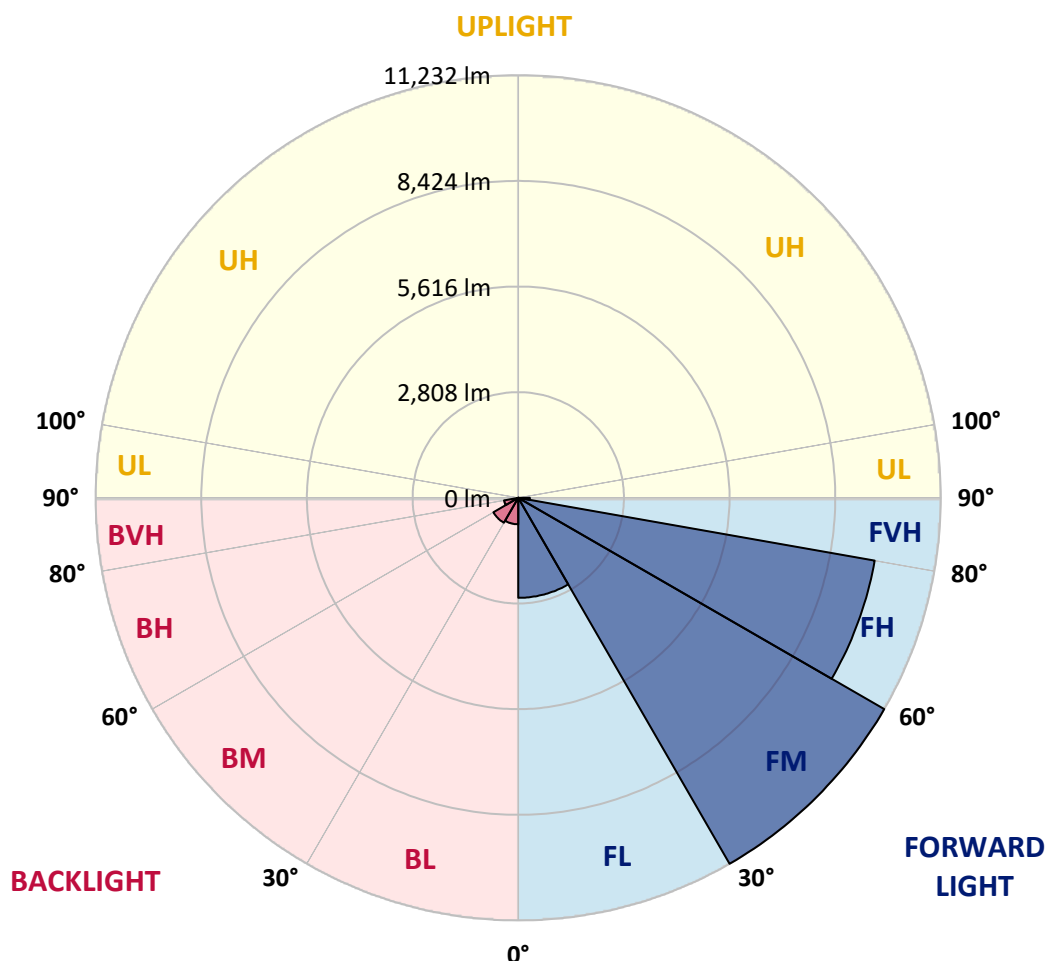


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2657.5	10.4			
FM (30°-60°)	11232.0	43.8			
FH (60°-80°)	9618.8	37.5			G4/12000
FVH (80°-90°)	309.8	1.2			G3/500
BL (0°-30°)	703.5	2.7	B2/1000		
BM (30°-60°)	763.9	3.0	B1/1000		
BH (60°-80°)	383.0	1.5	B1/500		G1/500
BVH (80°-90°)	2.3	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-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1
2.5°	7897.8	7909.8	7865.2	7829.1	7736.5	7637.1	7505.0	7434.6	7314.6	7107.0	6877.1
5°	8083.1	8098.5	8091.6	8083.1	8047.0	7951.0	7782.9	7721.1	7544.4	7206.5	6791.4
7.5°	7671.4	7728.0	7734.8	7801.7	7865.2	7873.8	7810.3	7764.0	7601.0	7204.8	6638.7
10°	7125.8	7163.6	7218.5	7295.7	7448.4	7575.3	7637.1	7630.2	7535.8	7151.5	6460.2
12.5°	6575.2	6595.8	6679.9	6811.9	6998.9	7215.0	7379.7	7412.3	7414.0	7088.1	6311.0
15°	6101.8	6093.1	6158.4	6311.0	6573.4	6844.5	7139.6	7191.0	7273.4	7026.3	6172.1
17.5°	5696.9	5741.5	5751.8	5919.9	6161.7	6513.5	6889.1	6980.1	7144.7	6973.2	6057.1
20°	5446.5	5470.4	5492.7	5587.1	5805.0	6175.5	6654.1	6779.3	7024.6	6925.2	5928.5
22.5°	5372.7	5388.1	5369.3	5398.4	5552.8	5882.1	6398.5	6564.9	6909.7	6880.5	5823.9
25°	5429.3	5444.7	5400.1	5365.8	5419.0	5643.7	6151.5	6353.9	6817.0	6871.9	5744.9
27.5°	5566.5	5595.7	5533.9	5472.2	5441.3	5515.1	5957.6	6192.7	6753.6	6913.1	5708.9
30°	5781.0	5798.1	5751.8	5676.3	5606.0	5532.2	5856.4	6081.2	6736.5	7009.2	5705.5
32.5°	6014.2	6050.2	6024.6	5974.8	5883.9	5708.9	5885.6	6084.6	6777.6	7148.2	5748.4
35°	6302.4	6343.6	6367.6	6357.3	6240.7	6022.8	6070.8	6238.9	6887.4	7403.7	5865.0
37.5°	6585.5	6621.5	6757.1	6803.3	6700.4	6494.6	6431.1	6542.6	7129.3	7738.2	6076.0
40°	6909.7	6957.7	7148.2	7324.8	7275.1	7058.9	6942.3	7034.9	7499.8	8242.6	6475.7
42.5°	7220.2	7305.9	7595.9	7908.1	7954.4	7712.5	7635.3	7666.2	8048.8	8968.2	7033.2
45°	7661.0	7741.7	8115.6	8539.3	8757.2	8568.5	8489.6	8484.4	8801.8	9988.9	7937.2
47.5°	8297.5	8369.5	8810.4	9228.9	9616.6	9642.3	9493.1	9544.5	9748.7	11182.8	9045.4
50°	9077.9	9247.8	9537.7	9973.5	10491.5	10910.0	10956.4	10887.8	11062.7	12565.4	10376.6
52.5°	10211.9	10277.0	10542.9	10901.5	11508.7	12218.9	12769.6	12675.2	12620.3	13882.8	11721.4
55°	11057.6	11145.1	11558.5	12050.8	12941.1	13877.7	15071.7	15104.2	14411.2	15148.9	13037.2
57.5°	10802.0	10935.8	11561.9	12551.7	14509.0	16220.9	17109.6	17131.9	16068.3	16378.8	14522.7
60°	9489.6	9553.1	10450.3	11771.2	14642.8	18759.8	20000.0	19819.9	17754.5	17754.5	15835.0
62.5°	6729.6	6829.1	7556.4	9500.0	13224.2	19641.5	23461.7	23089.5	20077.2	19070.3	16617.2
65°	4300.5	4204.5	4686.5	5997.1	9851.6	18339.5	26475.7	26498.1	22262.6	19596.9	16190.1
67°	3115.2	3077.4	3216.4	4099.9	6679.9	15416.4	26539.2	27714.3	23518.3	19264.1	14824.6
67.5°	2849.3	2878.5	2979.7	3698.4	6069.1	14028.7	26251.0	27642.2	23801.4	19063.4	14330.6
70°	2159.7	2110.0	2219.7	2616.0	3638.4	8849.9	22581.7	25352.1	23449.8	17071.8	11450.4
72.5°	1588.5	1583.3	1736.0	2139.2	2801.3	4714.0	16951.7	20327.7	19157.7	12999.4	7209.9
75°	1072.2	1120.2	1363.8	1787.4	2538.8	3056.8	11556.8	14747.4	13299.6	7381.4	2947.1
77.5°	610.7	614.1	878.3	1435.8	2279.8	2459.9	6848.0	9395.3	7040.0	2454.8	874.8
80°	264.2	289.9	435.7	1043.0	1890.4	2178.5	3926.6	5163.4	2847.6	519.8	283.1
82.5°	97.8	114.9	192.1	641.6	1379.2	1794.3	2372.4	2465.0	965.8	183.5	176.7
85°	0.0	3.4	70.3	300.2	718.8	801.1	1585.0	1461.5	427.1	87.5	114.9
87.5°	0.0	0.0	0.0	30.9	94.4	298.5	492.4	549.0	102.9	30.9	27.5
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°	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1	6805.1
2.5°	6753.6	6642.1	6362.5	6082.9	5875.3	5702.0	5441.3	5299.0	5223.5	5112.0	5118.8
5°	6583.8	6357.3	5865.0	5355.6	4943.9	4542.4	4062.1	3868.3	3705.3	3612.7	3550.9
7.5°	6331.6	5997.1	5268.0	4588.8	3955.7	3254.1	2727.5	2375.9	2139.2	2051.6	1967.6
10°	6055.4	5611.1	4662.5	3720.7	2842.4	2118.6	1672.6	1350.0	1235.1	1128.8	1139.0
12.5°	5799.8	5259.5	4106.7	2936.8	1991.6	1346.6	1049.8	917.8	880.0	868.0	868.0
15°	5590.5	4923.3	3509.7	2207.7	1365.5	967.5	840.6	804.5	790.8	787.4	787.4
17.5°	5367.5	4604.2	2971.1	1631.4	993.2	809.7	766.8	742.8	737.7	734.2	734.2
20°	5168.6	4283.4	2459.9	1214.5	802.8	729.1	701.6	686.1	681.1	677.6	679.3
22.5°	4979.9	3998.6	1979.6	917.8	706.7	663.8	636.4	621.0	610.7	602.1	603.8
25°	4811.8	3724.2	1591.9	751.4	636.4	598.7	571.2	549.0	526.6	516.3	514.6
27.5°	4693.4	3484.0	1240.3	643.3	572.9	531.8	497.4	470.0	440.8	425.4	422.0
30°	4595.6	3240.4	981.3	567.8	509.5	470.0	427.1	387.7	356.8	341.4	334.5
32.5°	4532.2	3008.8	773.7	506.1	456.3	408.3	360.3	320.8	286.5	271.1	267.6
35°	4521.8	2815.0	633.0	454.6	408.3	356.8	307.1	264.2	235.0	219.6	216.1
37.5°	4595.6	2665.7	530.1	413.4	368.8	312.2	257.3	217.8	192.1	180.1	178.4
40°	4792.9	2571.4	459.7	379.1	332.8	271.1	219.6	185.3	159.5	147.5	147.5
42.5°	5168.6	2574.8	413.4	346.5	296.8	231.6	187.0	154.4	132.1	121.8	118.4
45°	5755.2	2691.5	374.0	313.9	262.5	200.7	159.5	126.9	104.6	96.1	96.1
47.5°	6540.9	2923.1	339.7	281.3	231.6	171.6	135.5	102.9	84.1	75.5	75.5
50°	7568.4	3295.3	310.5	253.8	205.9	147.5	109.8	84.1	65.2	58.3	56.6
52.5°	8642.3	3755.0	276.2	229.9	176.7	125.2	89.2	65.2	49.7	44.6	42.9
55°	9827.6	4204.5	243.6	205.9	144.1	104.6	70.3	51.4	36.0	30.9	30.9
57.5°	11023.2	4645.4	204.1	171.6	113.2	77.2	54.9	37.7	24.0	18.9	18.9
60°	12035.3	4787.7	173.3	139.0	85.7	54.9	39.5	24.0	13.7	8.6	8.6
62.5°	12174.3	4307.4	145.8	106.3	61.8	37.7	20.6	13.7	5.2	3.4	3.4
65°	11419.5	3499.5	121.8	80.6	41.2	18.9	8.6	5.2	1.7	0.0	0.0
67°	10232.5	2837.3	99.5	60.1	29.1	12.0	5.2	1.7	0.0	0.0	0.0
67.5°	9928.8	2705.2	96.1	56.6	25.8	10.3	3.4	1.7	0.0	0.0	0.0
70°	7791.4	2025.9	68.6	34.3	15.4	6.9	0.0	0.0	0.0	0.0	0.0
72.5°	4842.6	1145.9	49.7	20.6	10.3	3.4	0.0	0.0	0.0	0.0	0.0
75°	1830.3	401.4	34.3	13.7	6.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	569.6	152.7	20.6	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	192.1	58.3	13.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	118.4	24.0	8.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	73.8	10.3	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.7	3.4	1.7	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)