

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: P454053

Luminaire Tested: **GALN-SA5A-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454053
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13779 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

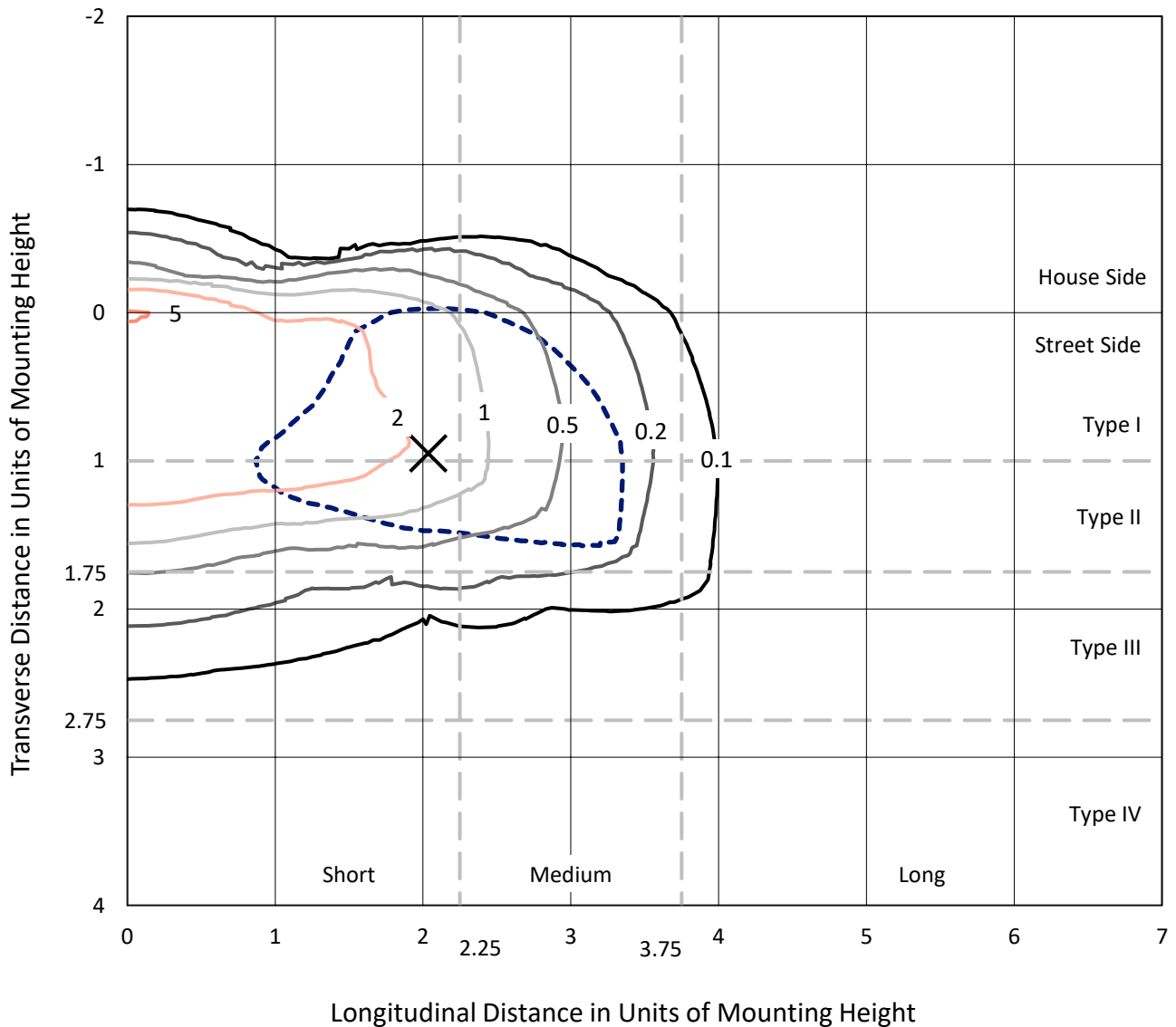
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

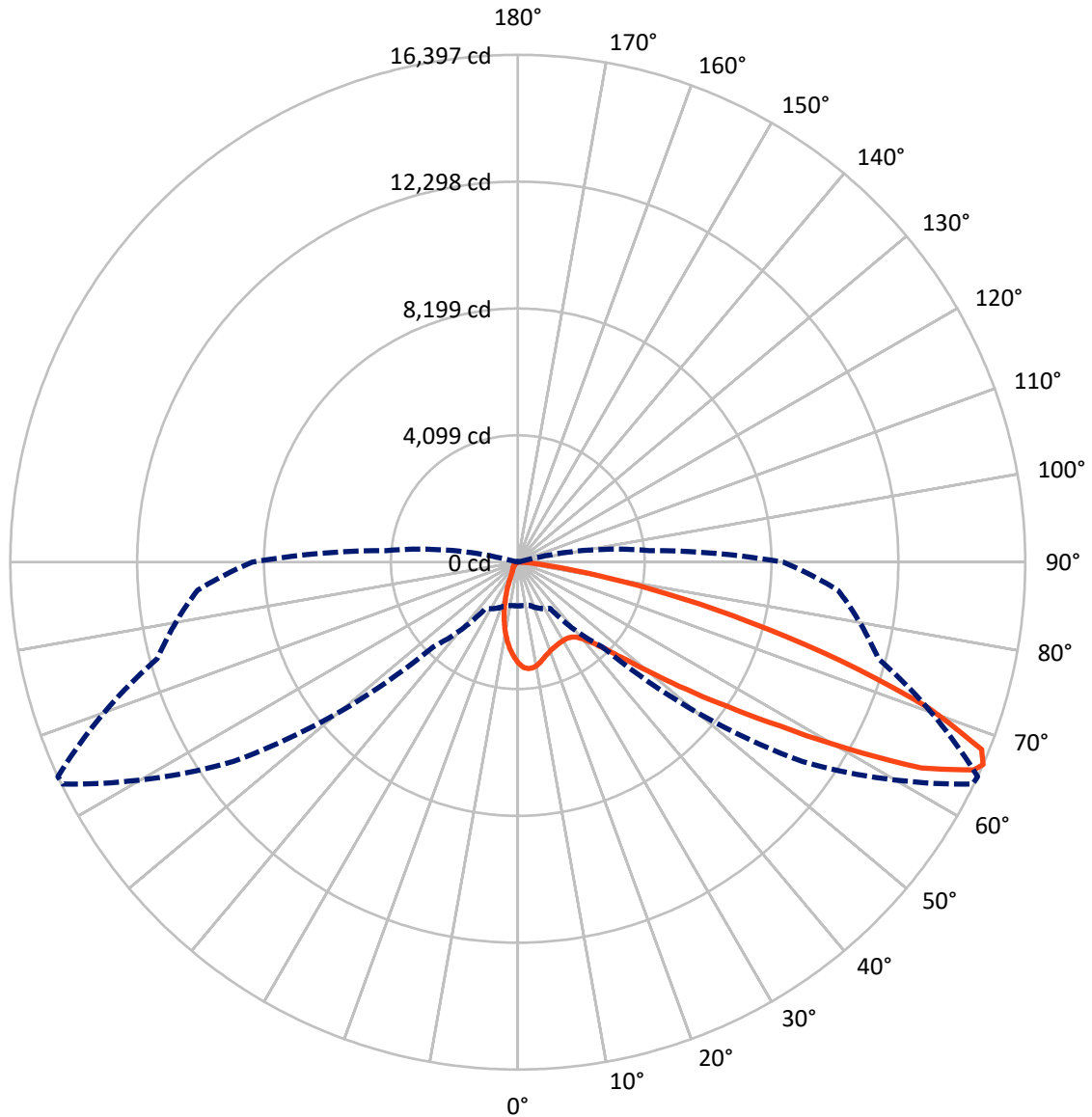
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1425.0	0.0	1425.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	12354.1	0.0	12354.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	13779.0	0.0	13779.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.2	1.9
10°-20°	582.3	4.2
20°-30°	834.1	6.1
30°-40°	1218.3	8.8
40°-50°	2042.8	14.8
50°-60°	3409.1	24.7
60°-70°	3618.7	26.3
70°-80°	1638.9	11.9
80°-90°	167.7	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°	13779.0	100.0
0°-180°	13779.0	100.0

Coefficient of Utilization



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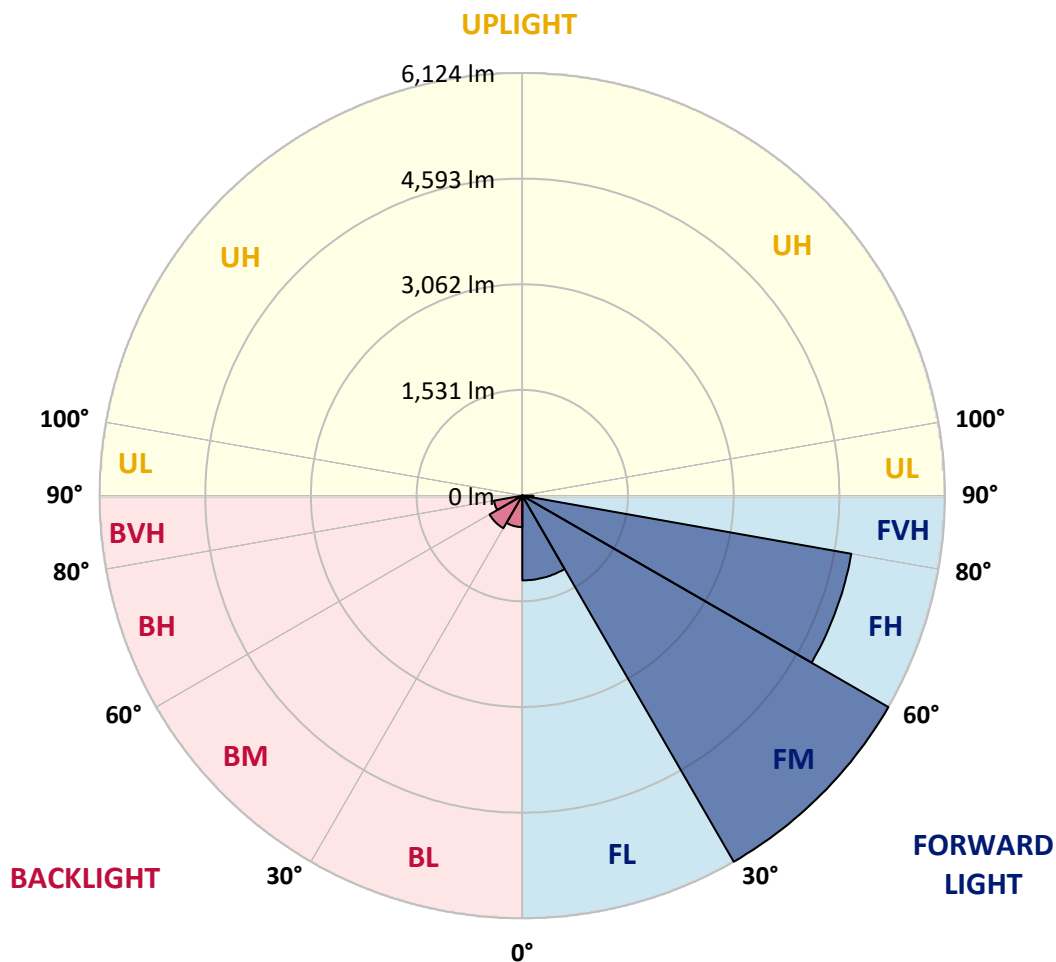
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1227.8	8.9			
FM (30°-60°)	6123.7	44.4			
FH (60°-80°)	4840.2	35.1			G2/5000
FVH (80°-90°)	162.4	1.2			G2/225
BL (0°-30°)	455.8	3.3	B1/500		
BM (30°-60°)	546.5	4.0	B1/1000		
BH (60°-80°)	417.3	3.0	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5
2.5°	3443.4	3447.1	3451.8	3458.3	3462.9	3449.0	3429.4	3407.1	3402.5	3355.0	3297.3
5°	3259.1	3264.7	3305.7	3328.0	3378.3	3423.9	3452.7	3456.4	3454.6	3409.9	3317.8
7.5°	2996.7	3012.5	3052.5	3091.6	3185.6	3272.2	3374.5	3446.2	3450.8	3438.7	3324.3
10°	2783.6	2793.8	2814.3	2891.5	2969.7	3101.9	3245.2	3380.1	3391.3	3439.7	3318.7
12.5°	2617.0	2631.9	2657.0	2716.6	2810.6	2935.3	3098.1	3279.6	3302.9	3422.0	3302.9
15°	2500.7	2508.1	2533.2	2591.9	2683.1	2798.5	2963.2	3174.4	3194.9	3398.7	3300.1
17.5°	2445.7	2454.1	2471.8	2518.3	2593.7	2700.7	2861.7	3089.8	3115.8	3383.8	3310.3
20°	2460.6	2468.1	2469.0	2493.2	2544.4	2634.7	2787.3	3010.6	3044.2	3374.5	3327.1
22.5°	2545.3	2546.3	2535.1	2523.9	2541.6	2606.7	2741.7	2960.4	2994.8	3372.7	3346.6
25°	2671.9	2674.7	2656.1	2617.0	2581.6	2615.1	2731.5	2927.8	2958.5	3368.0	3358.7
27.5°	2846.9	2845.9	2840.3	2775.2	2674.7	2652.4	2739.8	2910.1	2936.2	3355.0	3363.4
30°	3091.6	3084.2	3072.1	2998.6	2845.0	2742.6	2775.2	2899.0	2923.2	3336.4	3351.3
32.5°	3332.7	3360.6	3358.7	3288.9	3097.2	2903.6	2848.7	2913.9	2931.5	3324.3	3333.6
35°	3613.7	3612.8	3684.4	3658.4	3434.1	3109.3	2974.4	2963.2	2977.1	3332.7	3325.2
37.5°	3874.3	3898.5	4010.2	4037.2	3832.4	3399.7	3152.1	3069.3	3073.9	3389.4	3345.7
40°	4199.1	4245.6	4412.2	4502.5	4321.9	3830.6	3414.6	3263.8	3264.7	3529.0	3422.9
42.5°	4617.9	4691.4	4846.8	4997.6	4900.8	4340.5	3808.2	3571.8	3570.0	3774.7	3599.8
45°	5126.9	5178.1	5355.0	5594.1	5532.7	5052.5	4381.5	4049.3	4025.1	4177.7	3913.4
47.5°	5566.2	5636.0	5815.6	6088.3	6367.5	5921.7	5066.5	4705.4	4689.5	4818.9	4451.3
50°	5757.9	5819.3	6008.3	6390.8	7067.3	7062.7	6086.4	5663.0	5636.0	5705.8	5283.3
52.5°	5547.6	5605.3	5796.1	6272.6	7396.8	8453.1	7564.3	6864.5	6831.9	6742.6	6277.2
55°	4827.3	4874.7	5156.7	5703.9	7270.2	9380.0	9600.6	8348.9	8222.3	7875.2	7402.4
57.5°	3843.6	3819.4	3994.3	4630.0	6527.6	9690.8	11690.8	10198.1	9971.9	8854.2	8354.4
60°	2663.5	2738.0	2808.7	3227.5	4908.2	9152.0	12990.9	12522.8	12225.0	9817.4	9266.5
62.5°	1958.1	2007.4	2053.9	2247.5	3086.0	7307.5	13220.8	14910.9	14646.6	10840.2	10136.6
65°	1548.6	1552.3	1570.9	1761.7	2033.5	4751.9	12116.1	16257.5	16189.6	11824.8	10489.3
66°	1410.9	1411.8	1440.6	1645.4	1825.0	3869.6	11231.1	16359.9	16397.1	12061.2	10386.0
67.5°	1233.1	1229.4	1271.3	1478.8	1662.1	2790.1	9647.1	15944.8	16165.4	12242.7	10014.7
70°	955.8	951.1	1002.3	1240.6	1530.9	1861.3	6412.2	13690.8	14046.3	11871.4	8860.7
72.5°	636.6	640.3	727.8	979.0	1461.1	1638.9	3857.5	10414.9	10917.4	9803.5	6970.6
75°	371.3	377.8	477.4	727.8	1268.5	1562.6	2183.3	7426.6	7747.7	6769.5	4342.4
77.5°	194.5	197.3	267.1	480.2	972.5	1450.9	1454.6	4744.4	4895.2	3289.8	1718.9
80°	103.3	100.5	143.3	289.4	669.1	1274.1	1180.1	2511.8	2611.4	977.2	434.6
82.5°	39.1	42.8	76.3	189.9	395.5	914.8	1016.3	1110.3	1075.8	215.0	182.4
85°	7.4	9.3	32.6	112.6	199.2	382.5	749.2	544.4	504.4	81.0	105.2
87.5°	0.9	1.9	9.3	27.0	28.9	129.4	221.5	150.8	130.3	29.8	43.7
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°	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5	3267.5
2.5°	3269.4	3244.2	3160.5	3077.7	2993.0	2916.7	2864.5	2779.8	2758.4	2727.7	2710.1
5°	3262.9	3204.2	3043.2	2867.3	2703.5	2526.7	2391.8	2261.5	2191.7	2156.3	2143.3
7.5°	3244.2	3151.2	2899.9	2624.4	2362.0	2097.7	1867.8	1692.9	1580.2	1503.0	1450.9
10°	3207.0	3078.6	2733.3	2354.5	1958.1	1609.1	1317.8	1096.3	925.1	871.1	872.9
12.5°	3168.9	2997.6	2547.2	2054.9	1563.5	1123.3	814.3	639.4	557.5	530.5	524.9
15°	3133.5	2920.4	2364.8	1764.5	1164.2	727.8	524.9	463.5	441.1	436.5	435.5
17.5°	3114.9	2848.7	2170.3	1432.3	812.5	494.2	420.7	403.9	397.4	392.7	390.9
20°	3099.1	2786.4	1984.1	1121.4	555.6	404.8	376.9	361.1	349.9	345.3	342.5
22.5°	3087.9	2722.1	1791.5	868.3	425.3	359.2	334.1	313.6	297.8	292.2	288.5
25°	3071.1	2651.4	1597.0	634.7	358.3	319.2	290.4	266.2	245.7	235.5	233.6
27.5°	3046.9	2571.4	1383.9	470.0	320.1	283.8	248.5	218.7	198.2	187.1	188.0
30°	3007.9	2487.6	1170.8	373.2	289.4	247.6	209.4	180.5	161.0	152.6	151.7
32.5°	2961.3	2386.2	975.3	320.1	261.5	215.0	175.0	149.8	134.9	128.4	127.5
35°	2917.6	2283.8	776.2	287.6	232.7	185.2	147.0	125.6	114.5	108.9	109.8
37.5°	2893.4	2192.6	604.9	261.5	209.4	159.1	126.6	108.0	97.7	93.1	92.1
40°	2909.2	2118.2	481.1	238.2	183.3	136.8	108.9	93.1	82.8	76.3	76.3
42.5°	2983.7	2085.6	388.1	215.9	159.1	118.2	94.9	80.0	68.9	62.4	63.3
45°	3210.7	2120.0	324.8	195.4	136.8	102.4	81.9	66.1	55.8	51.2	50.3
47.5°	3587.7	2249.4	281.1	174.0	117.3	87.5	68.9	54.9	44.7	40.9	40.0
50°	4246.6	2516.5	248.5	152.6	99.6	74.5	56.8	43.7	35.4	31.6	31.6
52.5°	5153.0	3099.1	225.2	128.4	83.8	63.3	46.5	35.4	27.9	25.1	24.2
55°	6100.4	3713.3	213.1	108.0	69.8	52.1	37.2	27.9	21.4	18.6	17.7
57.5°	7011.5	4195.4	199.2	87.5	55.8	40.0	28.9	21.4	14.9	13.0	12.1
60°	7885.4	4585.3	169.4	69.8	43.7	28.9	21.4	14.9	10.2	8.4	8.4
62.5°	8667.1	4812.4	133.1	55.8	33.5	20.5	14.0	11.2	7.4	5.6	5.6
65°	8758.3	4517.4	100.5	42.8	24.2	13.0	8.4	8.4	5.6	3.7	3.7
66°	8575.0	4267.0	88.4	39.1	21.4	11.2	7.4	6.5	4.7	2.8	2.8
67.5°	8165.5	3839.9	76.3	33.5	17.7	8.4	5.6	5.6	3.7	1.9	1.9
70°	7055.3	3136.3	60.5	25.1	13.0	6.5	3.7	3.7	2.8	1.9	1.9
72.5°	5377.3	2341.5	49.3	18.6	9.3	4.7	2.8	2.8	2.8	1.9	1.9
75°	3243.3	1261.0	38.2	14.0	8.4	3.7	1.9	2.8	3.7	2.8	1.9
77.5°	1195.0	429.0	29.8	11.2	6.5	3.7	1.9	1.9	3.7	2.8	2.8
80°	293.2	111.7	21.4	9.3	6.5	3.7	1.9	1.9	3.7	3.7	3.7
82.5°	135.9	47.5	14.9	8.4	6.5	3.7	1.9	1.9	2.8	3.7	3.7
85°	78.2	22.3	12.1	9.3	6.5	3.7	1.9	1.9	2.8	3.7	3.7
87.5°	31.6	11.2	11.2	9.3	7.4	4.7	1.9	1.9	1.9	2.8	2.8
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)