

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: P453127

Luminaire Tested: **GALN-SA4A-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453127
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-SA4A-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA 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: 11001 lumens
Efficiency: N/A
Efficacy: 90.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

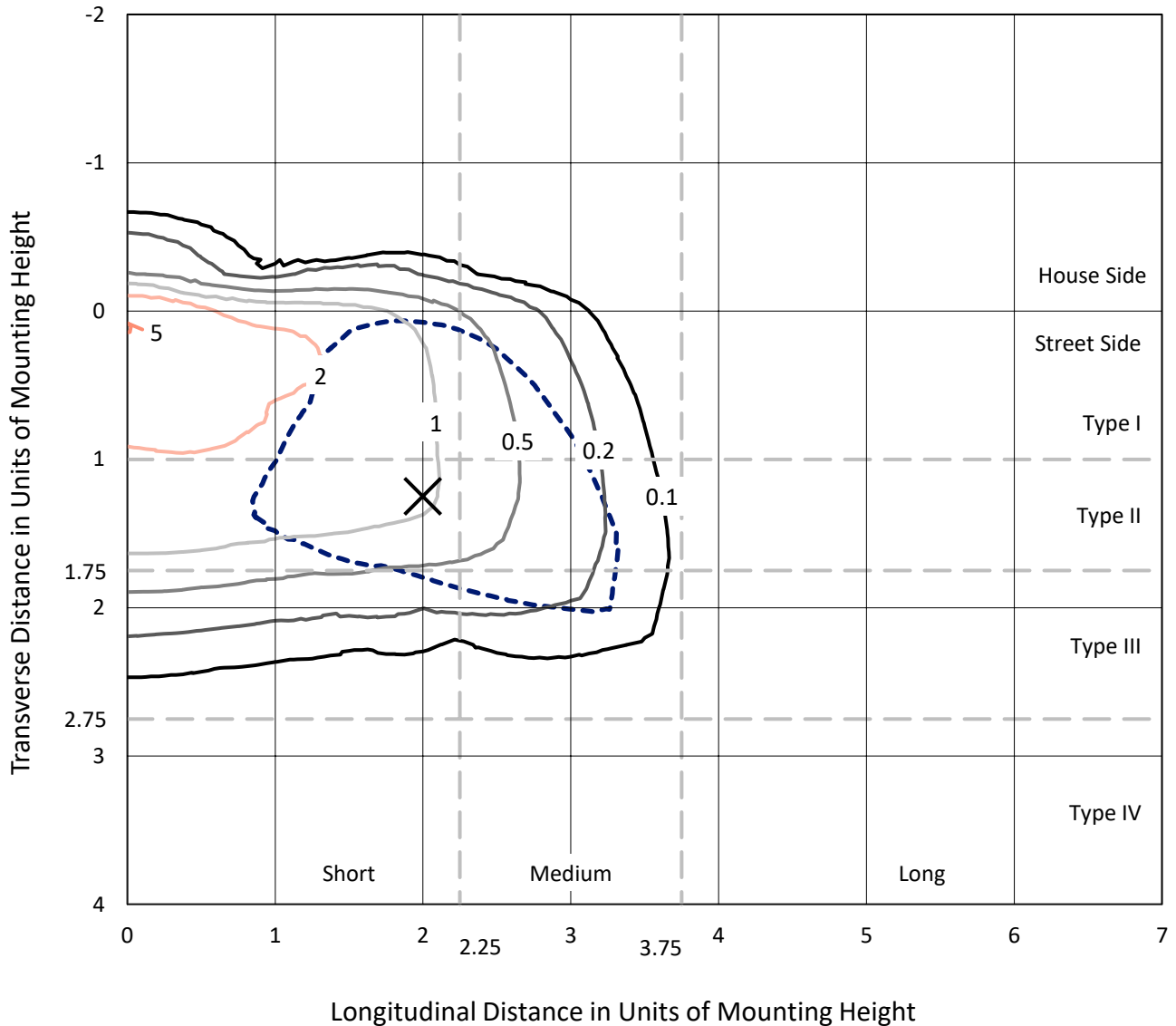
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

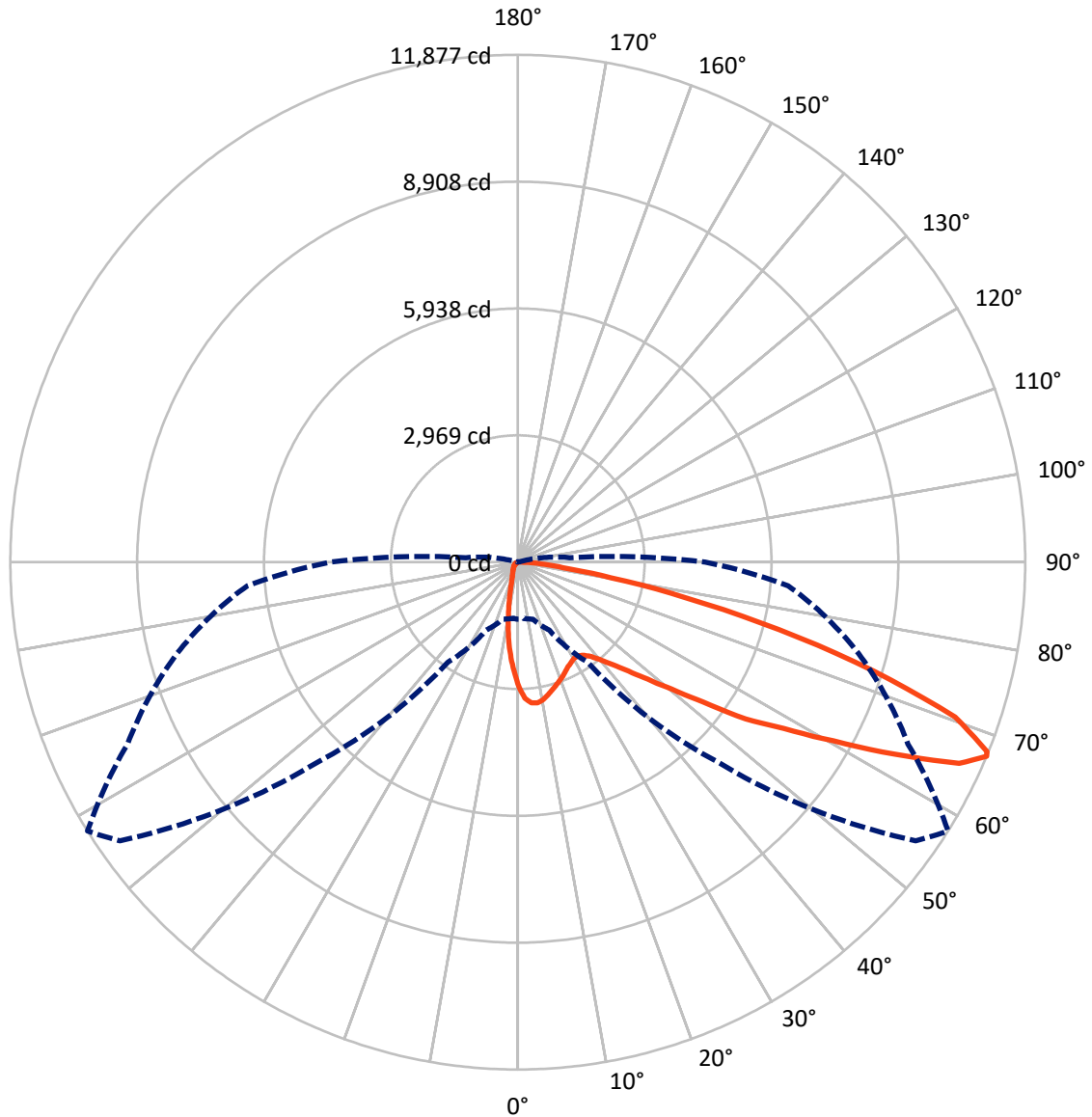
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 fc
 Type 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	793.9	0.0	793.9
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	10207.1	0.0	10207.1
	% Fixture	92.8	0.0	92.8
Total	Lumens	11001.0	0.0	11001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	236.6	2.2
10°-20°	511.1	4.6
20°-30°	692.6	6.3
30°-40°	960.6	8.7
40°-50°	1532.0	13.9
50°-60°	2648.2	24.1
60°-70°	3025.0	27.5
70°-80°	1261.2	11.5
80°-90°	133.7	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°	11001.0	100.0
0°-180°	11001.0	100.0

Coefficient of Utilization



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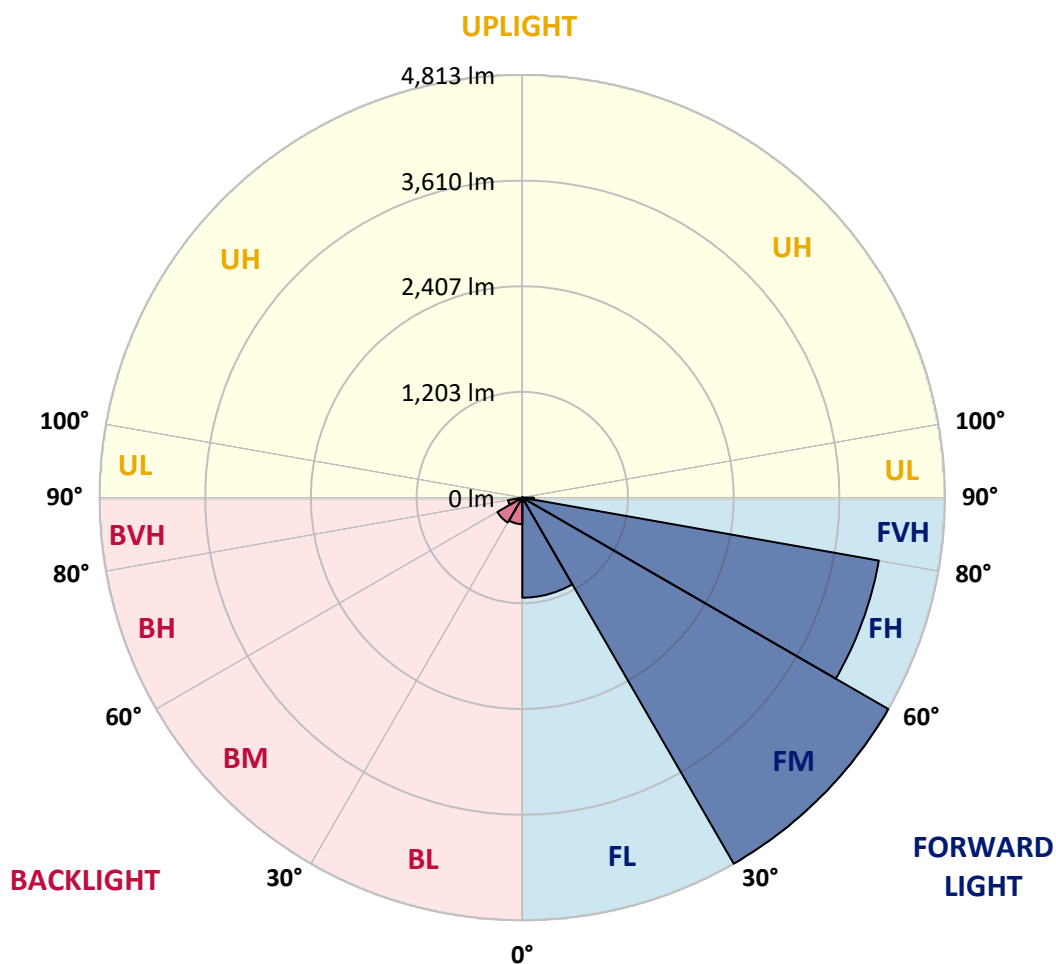
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1138.9	10.4			
FM (30°-60°)	4813.4	43.8			
FH (60°-80°)	4122.1	37.5			G2/5000
FVH (80°-90°)	132.7	1.2			G2/225
BL (0°-30°)	301.5	2.7	B1/500		
BM (30°-60°)	327.3	3.0	B1/1000		
BH (60°-80°)	164.1	1.5	B1/500		G1/500
BVH (80°-90°)	1.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3
2.5°	3384.5	3389.7	3370.6	3355.1	3315.4	3272.8	3216.2	3186.1	3134.6	3045.6	2947.1
5°	3463.9	3470.6	3467.6	3463.9	3448.5	3407.3	3335.3	3308.8	3233.1	3088.3	2910.4
7.5°	3287.5	3311.8	3314.7	3343.4	3370.6	3374.3	3347.1	3327.2	3257.4	3087.5	2845.0
10°	3053.7	3069.9	3093.4	3126.5	3191.9	3246.3	3272.8	3269.9	3229.4	3064.8	2768.5
12.5°	2817.8	2826.6	2862.6	2919.2	2999.3	3092.0	3162.5	3176.5	3177.2	3037.6	2704.5
15°	2614.9	2611.2	2639.1	2704.5	2817.0	2933.2	3059.6	3081.7	3117.0	3011.1	2645.0
17.5°	2441.4	2460.5	2464.9	2536.9	2640.6	2791.3	2952.3	2991.2	3061.8	2988.3	2595.7
20°	2334.0	2344.3	2353.9	2394.3	2487.7	2646.5	2851.6	2905.2	3010.4	2967.7	2540.6
22.5°	2302.4	2309.0	2301.0	2313.5	2379.6	2520.8	2742.0	2813.3	2961.1	2948.6	2495.8
25°	2326.7	2333.3	2314.2	2299.5	2322.3	2418.6	2636.2	2722.9	2921.4	2944.9	2462.0
27.5°	2385.5	2398.0	2371.5	2345.1	2331.8	2363.4	2553.1	2653.8	2894.2	2962.6	2446.5
30°	2477.4	2484.7	2464.9	2432.5	2402.4	2370.8	2509.7	2606.0	2886.9	3003.7	2445.0
32.5°	2577.4	2592.8	2581.8	2560.5	2521.5	2446.5	2522.2	2607.5	2904.5	3063.3	2463.4
35°	2700.9	2718.5	2728.8	2724.4	2674.4	2581.0	2601.6	2673.7	2951.6	3172.8	2513.4
37.5°	2822.2	2837.6	2895.7	2915.5	2871.4	2783.2	2756.0	2803.8	3055.2	3316.2	2603.8
40°	2961.1	2981.7	3063.3	3139.0	3117.7	3025.1	2975.1	3014.8	3214.0	3532.3	2775.1
42.5°	3094.2	3130.9	3255.2	3389.0	3408.8	3305.1	3272.1	3285.3	3449.2	3843.3	3014.0
45°	3283.1	3317.6	3477.9	3659.5	3752.8	3672.0	3638.2	3636.0	3772.0	4280.7	3401.5
47.5°	3555.8	3586.7	3775.6	3955.0	4121.1	4132.2	4068.2	4090.3	4177.7	4792.3	3876.3
50°	3890.3	3963.1	4087.3	4274.1	4496.1	4675.4	4695.3	4665.9	4740.9	5384.8	4446.8
52.5°	4376.2	4404.2	4518.1	4671.8	4932.0	5236.3	5472.3	5431.9	5408.4	5949.4	5023.1
55°	4738.7	4776.1	4953.3	5164.3	5545.8	5947.2	6458.9	6472.8	6175.8	6491.9	5587.0
57.5°	4629.1	4686.5	4954.8	5379.0	6217.7	6951.4	7332.2	7341.8	6886.0	7019.0	6223.6
60°	4066.7	4093.9	4478.4	5044.5	6275.1	8039.4	8570.9	8493.7	7608.6	7608.6	6786.0
62.5°	2883.9	2926.6	3238.3	4071.2	5667.1	8417.2	10054.4	9894.9	8604.0	8172.4	7121.2
65°	1843.0	1801.8	2008.4	2570.0	4221.9	7859.3	11346.0	11355.6	9540.5	8398.1	6938.2
67°	1335.0	1318.8	1378.4	1757.0	2862.6	6606.6	11373.2	11876.8	10078.6	8255.5	6353.0
67.5°	1221.1	1233.5	1276.9	1584.9	2600.9	6011.9	11249.7	11845.9	10199.9	8169.5	6141.3
70°	925.5	904.2	951.3	1121.1	1559.2	3792.5	9677.3	10864.5	10049.2	7316.0	4907.0
72.5°	680.7	678.5	744.0	916.7	1200.5	2020.1	7264.6	8711.3	8209.9	5570.8	3089.8
75°	459.5	480.0	584.4	766.0	1088.0	1310.0	4952.6	6319.9	5699.5	3163.3	1263.0
77.5°	261.7	263.2	376.4	615.3	977.0	1054.2	2934.6	4026.3	3017.0	1052.0	374.9
80°	113.2	124.2	186.7	447.0	810.1	933.6	1682.7	2212.7	1220.3	222.7	121.3
82.5°	41.9	49.3	82.3	274.9	591.0	768.9	1016.7	1056.4	413.9	78.7	75.7
85°	0.0	1.5	30.1	128.6	308.0	343.3	679.3	626.3	183.0	37.5	49.3
87.5°	0.0	0.0	0.0	13.2	40.4	127.9	211.0	235.2	44.1	13.2	11.8
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°	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3	2916.3
2.5°	2894.2	2846.4	2726.6	2606.8	2517.8	2443.6	2331.8	2270.8	2238.5	2190.7	2193.6
5°	2821.4	2724.4	2513.4	2295.1	2118.6	1946.6	1740.8	1657.7	1587.9	1548.2	1521.7
7.5°	2713.4	2570.0	2257.6	1966.5	1695.2	1394.5	1168.9	1018.2	916.7	879.2	843.2
10°	2595.0	2404.6	1998.1	1594.5	1218.1	907.9	716.8	578.5	529.3	483.7	488.1
12.5°	2485.5	2253.9	1759.9	1258.5	853.5	577.1	449.9	393.3	377.1	372.0	372.0
15°	2395.8	2109.8	1504.1	946.1	585.2	414.6	360.2	344.8	338.9	337.4	337.4
17.5°	2300.2	1973.1	1273.2	699.1	425.6	347.0	328.6	318.3	316.1	314.6	314.6
20°	2214.9	1835.6	1054.2	520.5	344.0	312.4	300.7	294.1	291.8	290.4	291.1
22.5°	2134.1	1713.6	848.3	393.3	302.9	284.5	272.7	266.1	261.7	258.0	258.8
25°	2062.0	1596.0	682.2	322.0	272.7	256.6	244.8	235.2	225.7	221.3	220.5
27.5°	2011.3	1493.1	531.5	275.7	245.5	227.9	213.2	201.4	188.9	182.3	180.8
30°	1969.4	1388.7	420.5	243.3	218.3	201.4	183.0	166.1	152.9	146.3	143.4
32.5°	1942.2	1289.4	331.5	216.9	195.5	175.0	154.4	137.5	122.8	116.2	114.7
35°	1937.8	1206.3	271.3	194.8	175.0	152.9	131.6	113.2	100.7	94.1	92.6
37.5°	1969.4	1142.4	227.2	177.2	158.1	133.8	110.3	93.4	82.3	77.2	76.5
40°	2054.0	1102.0	197.0	162.5	142.6	116.2	94.1	79.4	68.4	63.2	63.2
42.5°	2214.9	1103.4	177.2	148.5	127.2	99.2	80.1	66.2	56.6	52.2	50.7
45°	2466.4	1153.4	160.3	134.5	112.5	86.0	68.4	54.4	44.8	41.2	41.2
47.5°	2803.1	1252.7	145.6	120.6	99.2	73.5	58.1	44.1	36.0	32.3	32.3
50°	3243.4	1412.2	133.1	108.8	88.2	63.2	47.0	36.0	27.9	25.0	24.3
52.5°	3703.6	1609.2	118.4	98.5	75.7	53.7	38.2	27.9	21.3	19.1	18.4
55°	4211.6	1801.8	104.4	88.2	61.8	44.8	30.1	22.1	15.4	13.2	13.2
57.5°	4724.0	1990.7	87.5	73.5	48.5	33.1	23.5	16.2	10.3	8.1	8.1
60°	5157.7	2051.8	74.2	59.5	36.8	23.5	16.9	10.3	5.9	3.7	3.7
62.5°	5217.2	1845.9	62.5	45.6	26.5	16.2	8.8	5.9	2.2	1.5	1.5
65°	4893.8	1499.7	52.2	34.6	17.6	8.1	3.7	2.2	0.7	0.0	0.0
67°	4385.1	1215.9	42.6	25.7	12.5	5.1	2.2	0.7	0.0	0.0	0.0
67.5°	4254.9	1159.3	41.2	24.3	11.0	4.4	1.5	0.7	0.0	0.0	0.0
70°	3339.0	868.2	29.4	14.7	6.6	2.9	0.0	0.0	0.0	0.0	0.0
72.5°	2075.3	491.1	21.3	8.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0
75°	784.4	172.0	14.7	5.9	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	244.1	65.4	8.8	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	82.3	25.0	5.9	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	50.7	10.3	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.6	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	1.5	0.7	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)