

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: P452489

Luminaire Tested: **GALN-SA3C-722-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452489
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-SA3C-722-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2200K, 1050mA 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: 12762 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

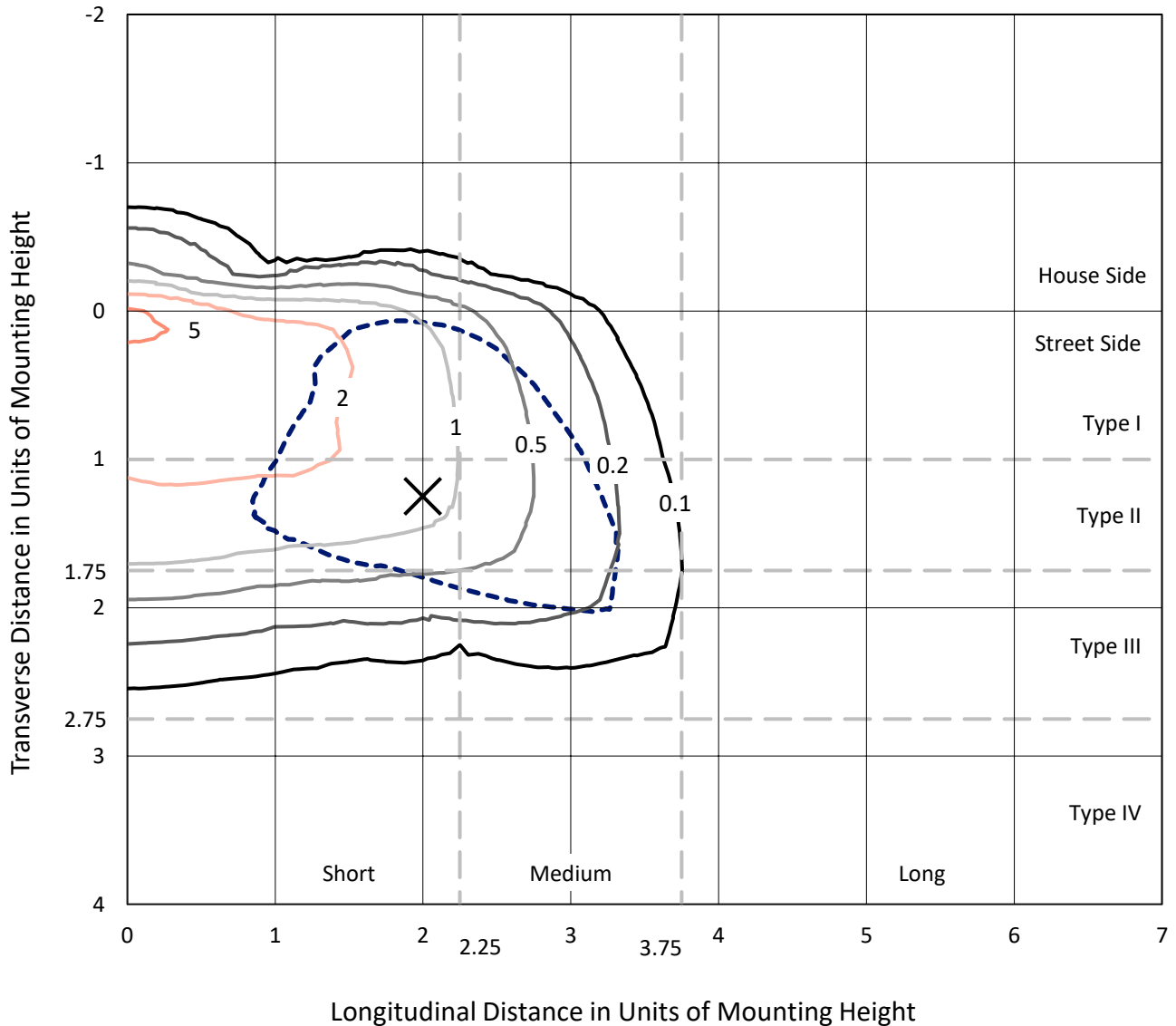
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

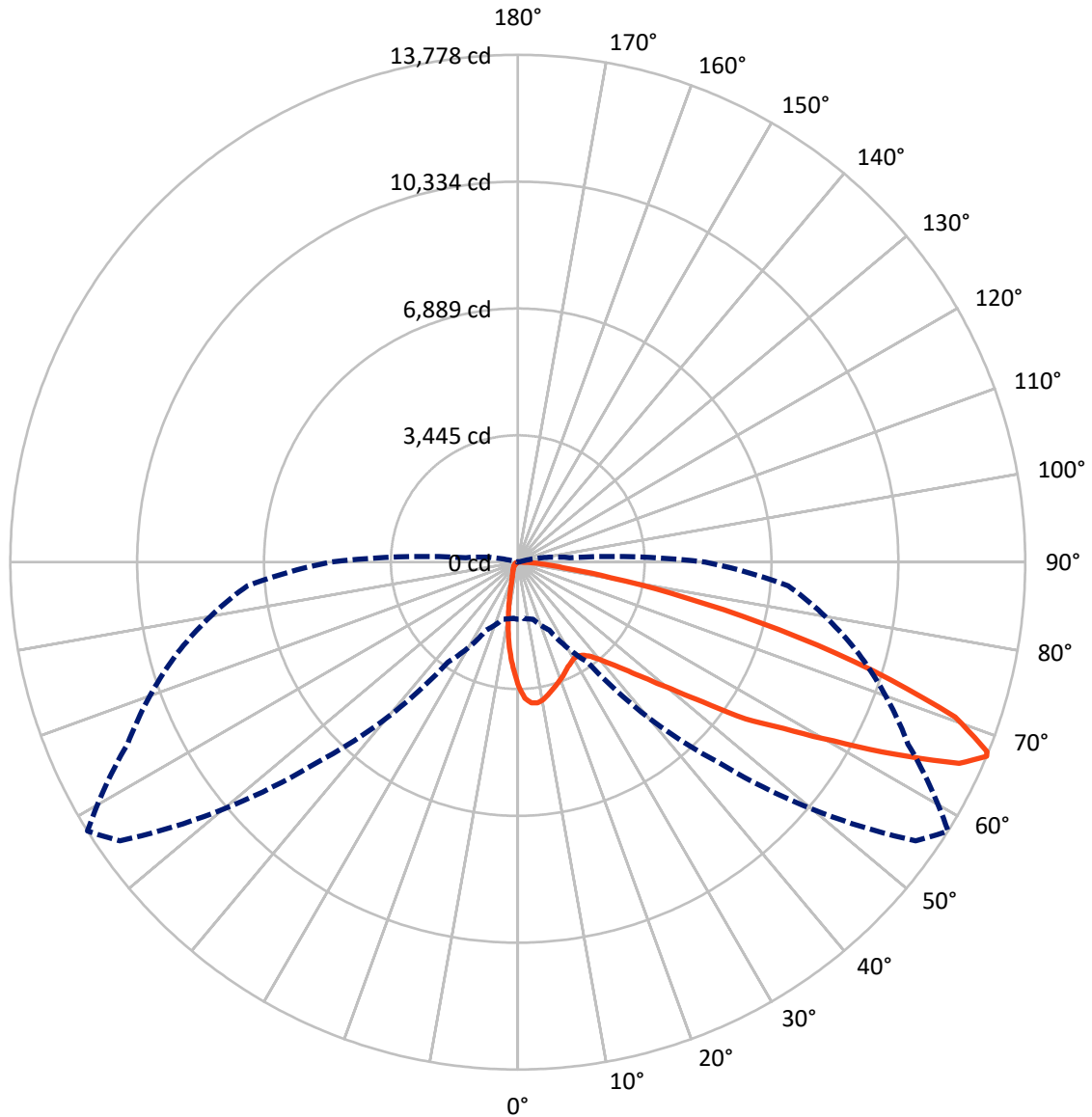
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	921.0	0.0	921.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	11841.0	0.0	11841.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	12762.0	0.0	12762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.5	2.2
10°-20°	592.9	4.6
20°-30°	803.4	6.3
30°-40°	1114.3	8.7
40°-50°	1777.2	13.9
50°-60°	3072.1	24.1
60°-70°	3509.3	27.5
70°-80°	1463.0	11.5
80°-90°	155.1	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°	12762.0	100.0
0°-180°	12762.0	100.0

Coefficient of Utilization



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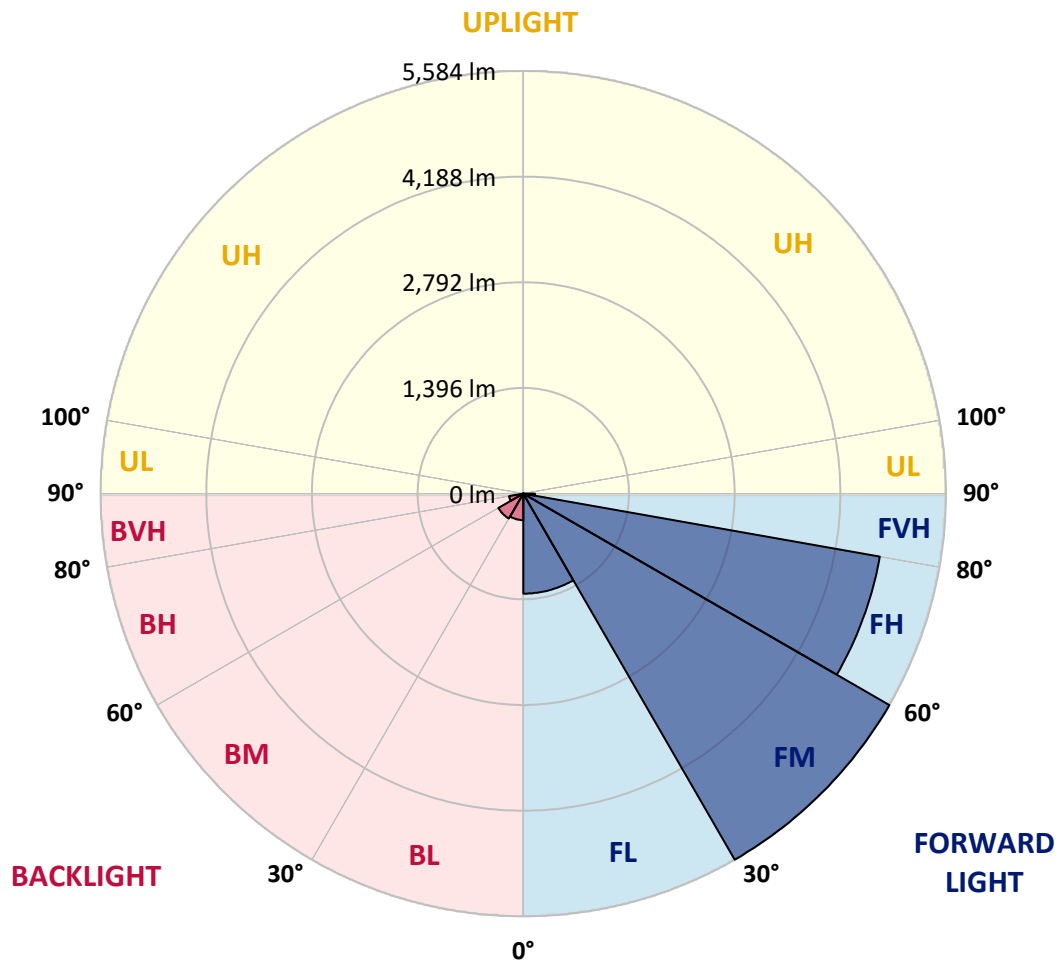
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1321.2	10.4			
FM (30°-60°)	5583.9	43.8			
FH (60°-80°)	4781.9	37.5			G2/5000
FVH (80°-90°)	154.0	1.2			G2/225
BL (0°-30°)	349.7	2.7	B1/500		
BM (30°-60°)	379.7	3.0	B1/1000		
BH (60°-80°)	190.4	1.5	B1/500		G1/500
BVH (80°-90°)	1.1	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°	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1
2.5°	3926.3	3932.3	3910.1	3892.2	3846.2	3796.7	3731.0	3696.1	3636.4	3533.2	3418.9
5°	4018.4	4026.1	4022.7	4018.4	4000.5	3952.8	3869.2	3838.5	3750.6	3582.6	3376.3
7.5°	3813.8	3841.9	3845.3	3878.6	3910.1	3914.4	3882.8	3859.8	3778.8	3581.8	3300.4
10°	3542.6	3561.3	3588.6	3627.0	3702.9	3766.0	3796.7	3793.3	3746.4	3555.4	3211.7
12.5°	3268.8	3279.0	3320.8	3386.5	3479.5	3586.9	3668.8	3685.0	3685.8	3523.8	3137.5
15°	3033.4	3029.2	3061.6	3137.5	3268.0	3402.7	3549.4	3575.0	3615.9	3493.1	3068.4
17.5°	2832.2	2854.3	2859.5	2943.0	3063.3	3238.1	3424.9	3470.1	3551.9	3466.7	3011.3
20°	2707.7	2719.6	2730.7	2777.6	2885.9	3070.1	3308.0	3370.3	3492.2	3442.8	2947.3
22.5°	2671.0	2678.7	2669.3	2683.8	2760.5	2924.3	3181.0	3263.7	3435.1	3420.6	2895.3
25°	2699.1	2706.8	2684.6	2667.6	2694.0	2805.7	3058.2	3158.8	3389.1	3416.3	2856.1
27.5°	2767.4	2781.9	2751.2	2720.5	2705.1	2741.8	2961.8	3078.6	3357.5	3436.8	2838.1
30°	2874.0	2882.5	2859.5	2821.9	2787.0	2750.3	2911.5	3023.2	3349.0	3484.6	2836.4
32.5°	2989.9	3007.9	2995.1	2970.3	2925.1	2838.1	2926.0	3024.9	3369.4	3553.7	2857.8
35°	3133.2	3153.7	3165.6	3160.5	3102.5	2994.2	3018.1	3101.7	3424.0	3680.7	2915.8
37.5°	3273.9	3291.8	3359.2	3382.2	3331.1	3228.7	3197.2	3252.6	3544.3	3847.0	3020.6
40°	3435.1	3459.0	3553.7	3641.5	3616.8	3509.3	3451.3	3497.4	3728.5	4097.7	3219.3
42.5°	3589.5	3632.1	3776.2	3931.4	3954.5	3834.2	3795.8	3811.2	4001.4	4458.5	3496.5
45°	3808.6	3848.7	4034.6	4245.3	4353.6	4259.8	4220.5	4218.0	4375.8	4965.9	3945.9
47.5°	4125.0	4160.8	4380.0	4588.1	4780.8	4793.6	4719.4	4745.0	4846.5	5559.5	4496.9
50°	4513.1	4597.5	4741.6	4958.2	5215.8	5423.9	5446.9	5412.8	5499.8	6246.8	5158.6
52.5°	5076.8	5109.2	5241.4	5419.6	5721.5	6074.6	6348.3	6301.4	6274.1	6901.8	5827.2
55°	5497.2	5540.7	5746.2	5991.0	6433.6	6899.2	7492.8	7509.0	7164.4	7531.1	6481.3
57.5°	5370.1	5436.7	5747.9	6240.0	7213.0	8064.2	8505.9	8517.0	7988.3	8142.6	7219.9
60°	4717.7	4749.3	5195.3	5852.0	7279.6	9326.3	9942.9	9853.3	8826.6	8826.6	7872.3
62.5°	3345.6	3395.0	3756.6	4722.9	6574.3	9764.7	11663.9	11478.8	9981.3	9480.7	8261.2
65°	2138.0	2090.2	2329.9	2981.4	4897.7	9117.4	13162.2	13173.3	11067.7	9742.5	8048.8
67°	1548.7	1529.9	1599.0	2038.2	3320.8	7664.2	13193.8	13778.0	11692.0	9577.0	7370.0
67.5°	1416.5	1431.0	1481.3	1838.7	3017.2	6974.3	13050.5	13742.1	11832.7	9477.3	7124.4
70°	1073.7	1049.0	1103.5	1300.5	1808.8	4399.6	11226.4	12603.6	11657.9	8487.1	5692.5
72.5°	789.7	787.1	863.0	1063.5	1392.6	2343.5	8427.4	10105.8	9524.2	6462.6	3584.4
75°	533.0	556.9	678.0	888.6	1262.2	1519.7	5745.4	7331.6	6611.8	3669.6	1465.1
77.5°	303.6	305.3	436.6	713.8	1133.4	1222.9	3404.4	4670.8	3499.9	1220.4	434.9
80°	131.3	144.1	216.6	518.5	939.8	1083.1	1952.1	2567.0	1415.7	258.4	140.7
82.5°	48.6	57.1	95.5	319.0	685.7	892.0	1179.4	1225.5	480.1	91.3	87.8
85°	0.0	1.7	35.0	149.2	357.3	398.3	788.0	726.6	212.3	43.5	57.1
87.5°	0.0	0.0	0.0	15.4	46.9	148.4	244.8	272.9	51.2	15.4	13.6
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°	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1	3383.1
2.5°	3357.5	3302.1	3163.1	3024.1	2920.9	2834.7	2705.1	2634.3	2596.8	2541.4	2544.8
5°	3273.1	3160.5	2915.8	2662.5	2457.8	2258.2	2019.4	1923.1	1842.1	1796.0	1765.3
7.5°	3147.7	2981.4	2619.0	2281.3	1966.6	1617.8	1356.0	1181.1	1063.5	1020.0	978.2
10°	3010.4	2789.5	2317.9	1849.7	1413.1	1053.2	831.5	671.2	614.0	561.1	566.3
12.5°	2883.3	2614.7	2041.6	1460.0	990.1	669.5	521.9	456.3	437.5	431.5	431.5
15°	2779.3	2447.6	1744.8	1097.6	678.8	481.0	417.9	400.0	393.1	391.4	391.4
17.5°	2668.4	2288.9	1477.1	811.0	493.8	402.5	381.2	369.3	366.7	365.0	365.0
20°	2569.5	2129.5	1222.9	603.8	399.1	362.4	348.8	341.1	338.6	336.9	337.7
22.5°	2475.7	1987.9	984.1	456.3	351.4	330.0	316.4	308.7	303.6	299.3	300.2
25°	2392.1	1851.4	791.4	373.5	316.4	297.6	284.0	272.9	261.8	256.7	255.8
27.5°	2333.3	1732.1	616.6	319.8	284.8	264.4	247.3	233.7	219.2	211.5	209.8
30°	2284.7	1611.0	487.8	282.3	253.3	233.7	212.3	192.7	177.4	169.7	166.3
32.5°	2253.1	1495.8	384.6	251.6	226.8	203.0	179.1	159.5	142.4	134.7	133.0
35°	2248.0	1399.5	314.7	226.0	203.0	177.4	152.7	131.3	116.8	109.2	107.5
37.5°	2284.7	1325.3	263.5	205.5	183.4	155.2	127.9	108.3	95.5	89.5	88.7
40°	2382.7	1278.4	228.6	188.5	165.4	134.7	109.2	92.1	79.3	73.3	73.3
42.5°	2569.5	1280.1	205.5	172.3	147.5	115.1	93.0	76.8	65.7	60.5	58.8
45°	2861.2	1338.1	185.9	156.1	130.5	99.8	79.3	63.1	52.0	47.8	47.8
47.5°	3251.8	1453.2	168.9	139.9	115.1	85.3	67.4	51.2	41.8	37.5	37.5
50°	3762.6	1638.2	154.4	126.2	102.3	73.3	54.6	41.8	32.4	29.0	28.1
52.5°	4296.4	1866.8	137.3	114.3	87.8	62.3	44.3	32.4	24.7	22.2	21.3
55°	4885.7	2090.2	121.1	102.3	71.6	52.0	35.0	25.6	17.9	15.4	15.4
57.5°	5480.1	2309.4	101.5	85.3	56.3	38.4	27.3	18.8	11.9	9.4	9.4
60°	5983.3	2380.2	86.1	69.1	42.6	27.3	19.6	11.9	6.8	4.3	4.3
62.5°	6052.4	2141.4	72.5	52.9	30.7	18.8	10.2	6.8	2.6	1.7	1.7
65°	5677.1	1739.7	60.5	40.1	20.5	9.4	4.3	2.6	0.9	0.0	0.0
67°	5087.0	1410.5	49.5	29.8	14.5	6.0	2.6	0.9	0.0	0.0	0.0
67.5°	4936.1	1344.9	47.8	28.1	12.8	5.1	1.7	0.9	0.0	0.0	0.0
70°	3873.5	1007.2	34.1	17.1	7.7	3.4	0.0	0.0	0.0	0.0	0.0
72.5°	2407.5	569.7	24.7	10.2	5.1	1.7	0.0	0.0	0.0	0.0	0.0
75°	909.9	199.6	17.1	6.8	3.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	283.1	75.9	10.2	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	95.5	29.0	6.8	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	58.8	11.9	4.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.7	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.8	1.7	0.9	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)