

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: P452518

Luminaire Tested: **GALN-SA3C-727-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452518
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-727-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 14519 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

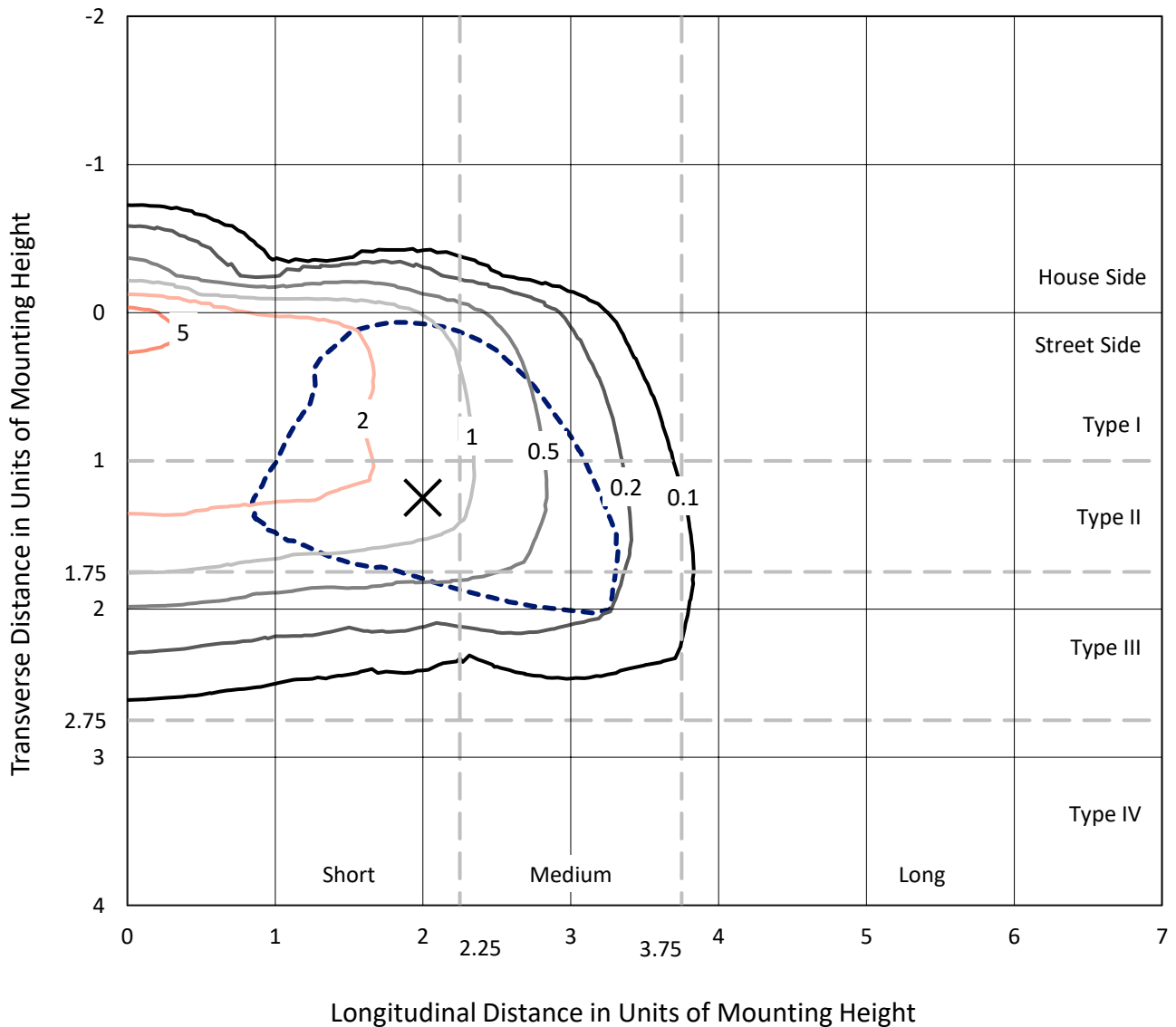
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

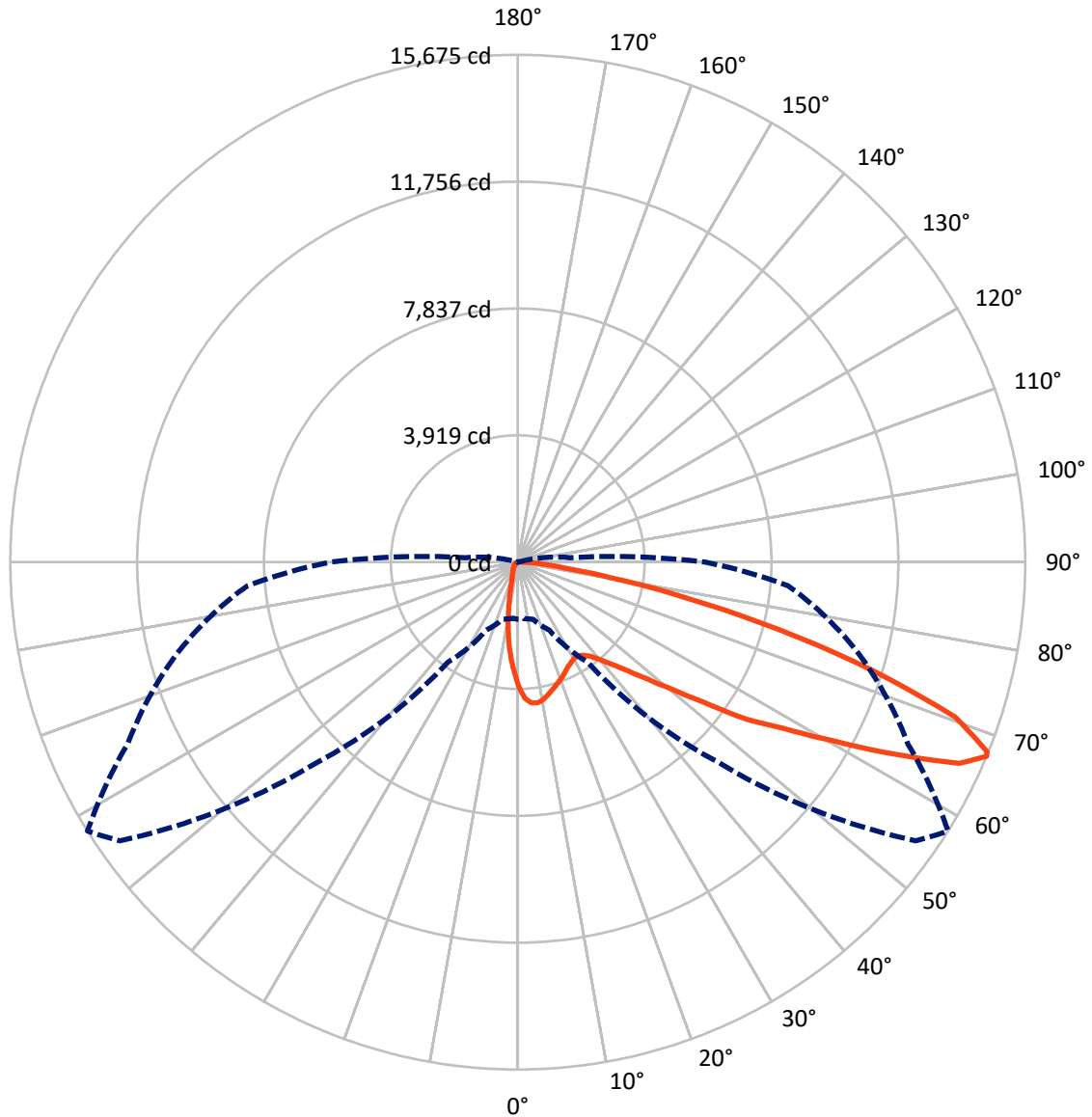
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	1047.8	0.0	1047.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13471.2	0.0	13471.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	14519.0	0.0	14519.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.3	2.2
10°-20°	674.5	4.6
20°-30°	914.1	6.3
30°-40°	1267.7	8.7
40°-50°	2021.9	13.9
50°-60°	3495.0	24.1
60°-70°	3992.4	27.5
70°-80°	1664.5	11.5
80°-90°	176.5	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°	14519.0	100.0
0°-180°	14519.0	100.0



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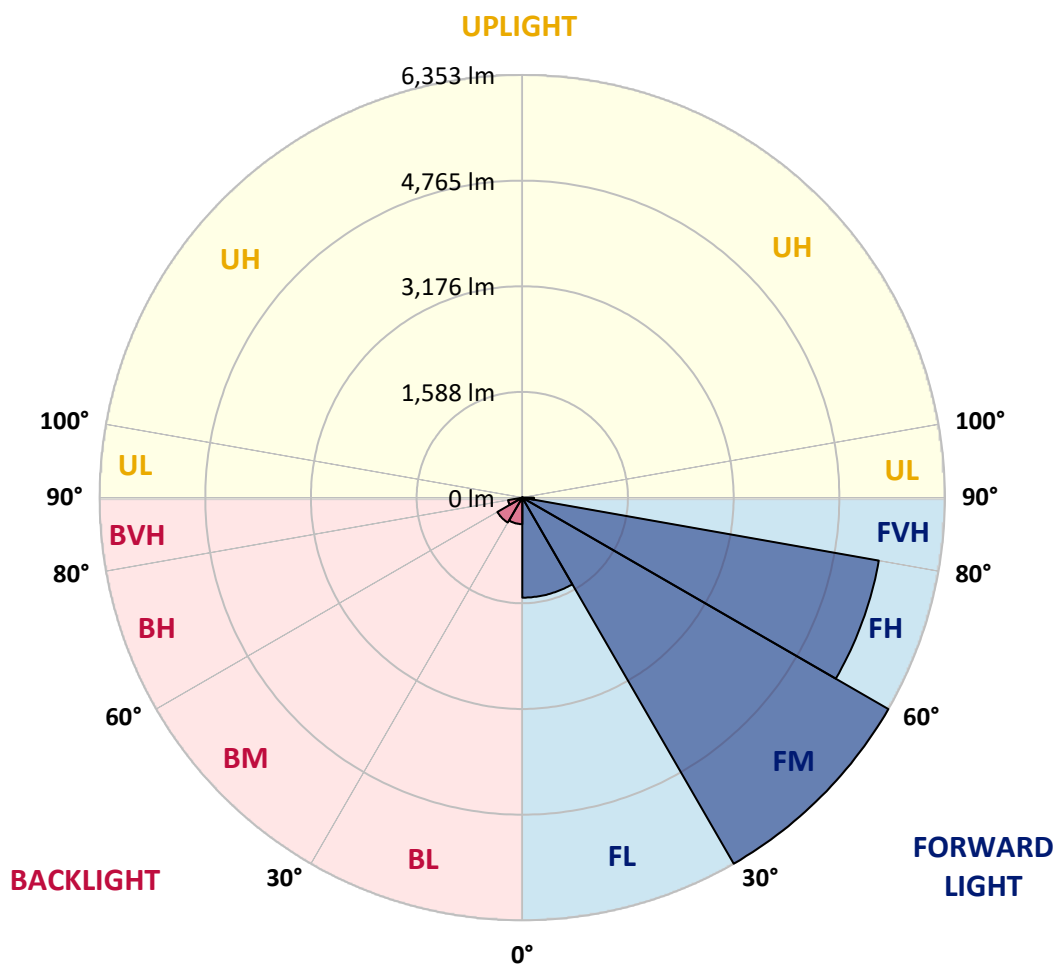
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1503.1	10.4			
FM (30°-60°)	6352.7	43.8			
FH (60°-80°)	5440.3	37.5			G3/7500
FVH (80°-90°)	175.2	1.2			G2/225
BL (0°-30°)	397.9	2.7	B1/500		
BM (30°-60°)	432.0	3.0	B1/1000		
BH (60°-80°)	216.6	1.5	B1/500		G1/500
BVH (80°-90°)	1.3	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9
2.5°	4466.9	4473.7	4448.4	4428.1	4375.7	4319.4	4244.7	4204.9	4137.0	4019.6	3889.6
5°	4571.7	4580.4	4576.5	4571.7	4551.3	4497.0	4401.9	4366.9	4267.0	4075.9	3841.1
7.5°	4338.8	4370.8	4374.7	4412.6	4448.4	4453.3	4417.4	4391.2	4299.0	4074.9	3754.7
10°	4030.3	4051.6	4082.7	4126.3	4212.7	4284.5	4319.4	4315.5	4262.2	4044.8	3653.8
12.5°	3718.8	3730.5	3778.0	3852.7	3958.5	4080.7	4173.9	4192.3	4193.3	4008.9	3569.4
15°	3451.1	3446.2	3483.1	3569.4	3717.9	3871.2	4038.0	4067.2	4113.7	3974.0	3490.8
17.5°	3222.1	3247.3	3253.1	3348.2	3485.0	3683.9	3896.4	3947.8	4041.0	3943.9	3425.8
20°	3080.4	3094.0	3106.6	3160.0	3283.2	3492.8	3763.5	3834.3	3973.0	3916.8	3353.1
22.5°	3038.7	3047.5	3036.8	3053.3	3140.6	3326.9	3618.9	3713.0	3908.0	3891.5	3293.9
25°	3070.7	3079.5	3054.2	3034.8	3064.9	3192.0	3479.2	3593.7	3855.6	3886.7	3249.3
27.5°	3148.4	3164.9	3129.9	3095.0	3077.5	3119.2	3369.6	3502.5	3819.7	3910.0	3228.9
30°	3269.6	3279.3	3253.1	3210.5	3170.7	3129.0	3312.3	3439.4	3810.0	3964.3	3226.9
32.5°	3401.6	3422.0	3407.4	3379.3	3327.8	3228.9	3328.8	3441.4	3833.3	4042.9	3251.2
35°	3564.6	3587.9	3601.4	3595.6	3529.7	3406.4	3433.6	3528.7	3895.4	4187.5	3317.2
37.5°	3724.7	3745.0	3821.7	3847.9	3789.7	3673.2	3637.3	3700.4	4032.2	4376.7	3436.5
40°	3908.0	3935.2	4042.9	4142.8	4114.7	3992.4	3926.5	3978.9	4241.8	4661.9	3662.6
42.5°	4083.6	4132.2	4296.1	4472.7	4498.9	4362.1	4318.4	4335.9	4552.3	5072.3	3977.9
45°	4333.0	4378.6	4590.1	4829.7	4953.0	4846.2	4801.6	4798.7	4978.2	5649.6	4489.2
47.5°	4692.9	4733.7	4983.0	5219.8	5439.0	5453.6	5369.2	5398.3	5513.7	6324.8	5116.0
50°	5134.4	5230.4	5394.4	5640.8	5933.9	6170.6	6196.8	6158.0	6256.9	7106.8	5868.8
52.5°	5775.7	5812.6	5963.0	6165.7	6509.2	6910.9	7222.3	7168.9	7137.9	7852.0	6629.5
55°	6254.0	6303.5	6537.3	6815.8	7319.3	7849.1	8524.3	8542.8	8150.8	8568.0	7373.7
57.5°	6109.5	6185.1	6539.3	7099.1	8206.1	9174.4	9677.0	9689.6	9088.0	9263.6	8213.9
60°	5367.2	5403.1	5910.6	6657.6	8281.8	10610.3	11311.8	11209.9	10041.8	10041.8	8956.1
62.5°	3806.2	3862.4	4273.8	5373.1	7479.4	11109.0	13269.7	13059.1	11355.4	10785.9	9398.5
65°	2432.3	2378.0	2650.6	3391.9	5572.0	10372.6	14974.3	14987.0	12591.5	11083.8	9156.9
67°	1761.9	1740.6	1819.2	2318.8	3778.0	8719.3	15010.2	15674.8	13301.7	10895.5	8384.6
67.5°	1611.5	1628.0	1685.3	2091.8	3432.6	7934.4	14847.2	15634.1	13461.8	10782.0	8105.2
70°	1221.5	1193.4	1255.5	1479.6	2057.8	5005.4	12771.9	14338.8	13262.9	9655.6	6476.2
72.5°	898.4	895.5	981.9	1209.9	1584.4	2666.2	9587.7	11497.1	10835.4	7352.3	4077.8
75°	606.4	633.6	771.3	1011.0	1435.9	1728.9	6536.4	8341.0	7522.1	4174.8	1666.8
77.5°	345.4	347.3	496.8	812.1	1289.4	1391.3	3873.1	5313.9	3981.8	1388.4	494.8
80°	149.4	164.0	246.4	589.9	1069.2	1232.2	2220.8	2920.4	1610.6	294.0	160.1
82.5°	55.3	65.0	108.7	362.9	780.1	1014.8	1341.8	1394.2	546.2	103.8	99.9
85°	0.0	1.9	39.8	169.8	406.5	453.1	896.5	826.6	241.6	49.5	65.0
87.5°	0.0	0.0	0.0	17.5	53.4	168.8	278.5	310.5	58.2	17.5	15.5
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°	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9	3848.9
2.5°	3819.7	3756.7	3598.5	3440.4	3323.0	3225.0	3077.5	2997.0	2954.3	2891.2	2895.1
5°	3723.7	3595.6	3317.2	3029.0	2796.2	2569.1	2297.5	2187.8	2095.7	2043.3	2008.4
7.5°	3581.1	3391.9	2979.5	2595.3	2237.3	1840.5	1542.6	1343.8	1209.9	1160.4	1112.8
10°	3424.9	3173.6	2637.1	2104.4	1607.7	1198.2	946.0	763.6	698.6	638.4	644.2
12.5°	3280.3	2974.7	2322.7	1661.0	1126.4	761.6	593.8	519.1	497.7	490.9	490.9
15°	3161.9	2784.5	1985.1	1248.7	772.3	547.2	475.4	455.0	447.3	445.3	445.3
17.5°	3035.8	2604.1	1680.4	922.7	561.8	457.9	433.7	420.1	417.2	415.3	415.3
20°	2923.3	2422.6	1391.3	686.9	454.1	412.3	396.8	388.1	385.2	383.2	384.2
22.5°	2816.5	2261.6	1119.6	519.1	399.7	375.5	360.0	351.2	345.4	340.5	341.5
25°	2721.5	2106.3	900.4	425.0	360.0	338.6	323.1	310.5	297.9	292.0	291.1
27.5°	2654.5	1970.5	701.5	363.8	324.1	300.8	281.4	265.8	249.3	240.6	238.7
30°	2599.2	1832.7	555.0	321.1	288.2	265.8	241.6	219.3	201.8	193.1	189.2
32.5°	2563.3	1701.8	437.6	286.2	258.1	230.9	203.7	181.4	162.0	153.3	151.4
35°	2557.5	1592.1	358.0	257.1	230.9	201.8	173.7	149.4	132.9	124.2	122.2
37.5°	2599.2	1507.7	299.8	233.8	208.6	176.6	145.5	123.2	108.7	101.9	100.9
40°	2710.8	1454.4	260.0	214.4	188.2	153.3	124.2	104.8	90.2	83.4	83.4
42.5°	2923.3	1456.3	233.8	196.0	167.8	131.0	105.8	87.3	74.7	68.9	66.9
45°	3255.1	1522.3	211.5	177.5	148.4	113.5	90.2	71.8	59.2	54.3	54.3
47.5°	3699.4	1653.3	192.1	159.1	131.0	97.0	76.6	58.2	47.5	42.7	42.7
50°	4280.6	1863.8	175.6	143.6	116.4	83.4	62.1	47.5	36.9	33.0	32.0
52.5°	4888.0	2123.8	156.2	130.0	99.9	70.8	50.5	36.9	28.1	25.2	24.3
55°	5558.4	2378.0	137.8	116.4	81.5	59.2	39.8	29.1	20.4	17.5	17.5
57.5°	6234.6	2627.3	115.5	97.0	64.0	43.7	31.0	21.3	13.6	10.7	10.7
60°	6807.0	2707.9	98.0	78.6	48.5	31.0	22.3	13.6	7.8	4.9	4.9
62.5°	6885.6	2436.2	82.5	60.2	34.9	21.3	11.6	7.8	2.9	1.9	1.9
65°	6458.7	1979.2	68.9	45.6	23.3	10.7	4.9	2.9	1.0	0.0	0.0
67°	5787.3	1604.7	56.3	34.0	16.5	6.8	2.9	1.0	0.0	0.0	0.0
67.5°	5615.6	1530.0	54.3	32.0	14.6	5.8	1.9	1.0	0.0	0.0	0.0
70°	4406.7	1145.8	38.8	19.4	8.7	3.9	0.0	0.0	0.0	0.0	0.0
72.5°	2738.9	648.1	28.1	11.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0
75°	1035.2	227.0	19.4	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	322.1	86.3	11.6	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	108.7	33.0	7.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	66.9	13.6	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	41.7	5.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	1.9	1.0	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)