

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: P458896

Luminaire Tested: **GALN-SA4B-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458896
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-SA4B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA 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: 17162 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

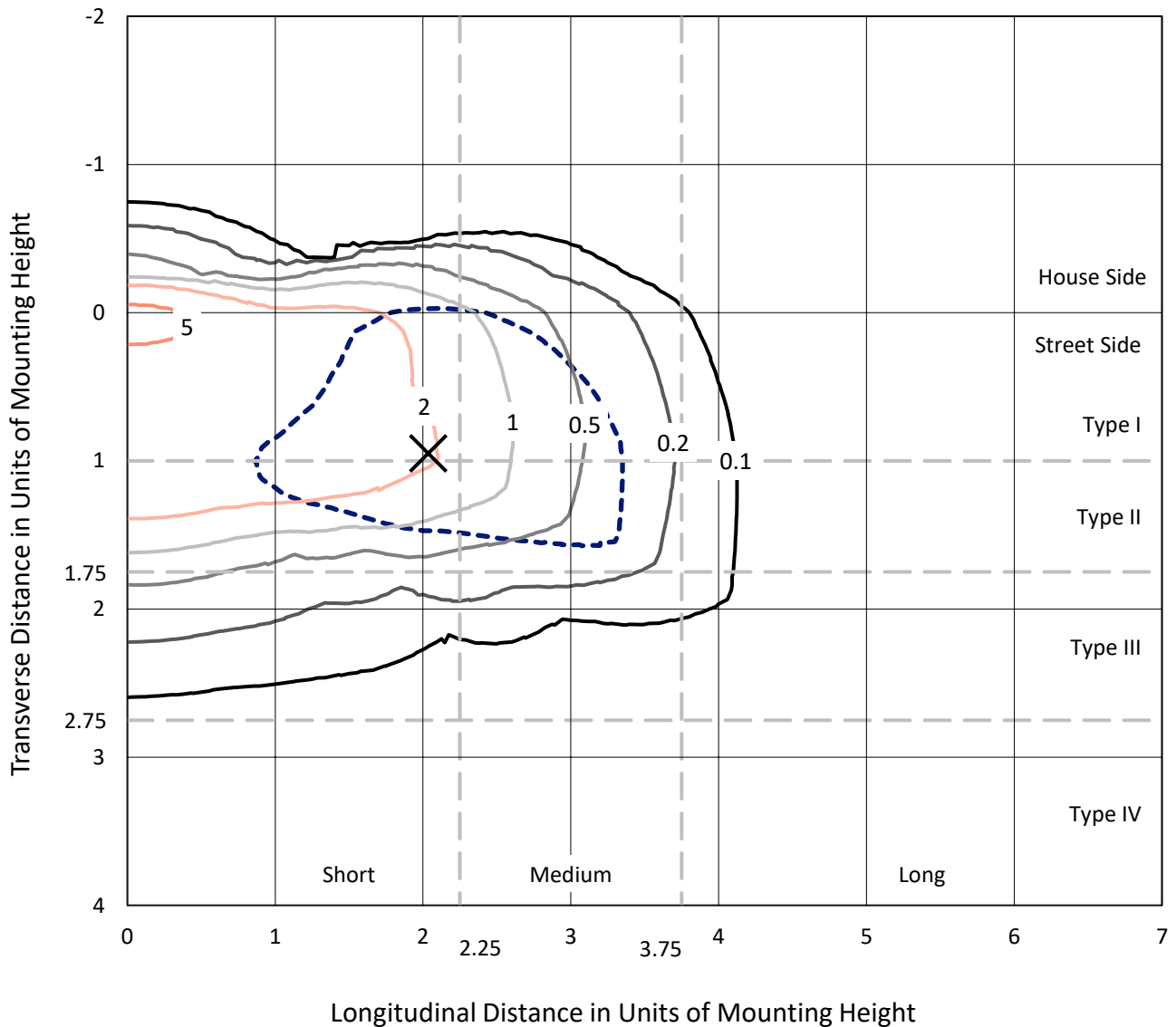
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458896
 CATALOG NUMBER: GALN-SA4B-735-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

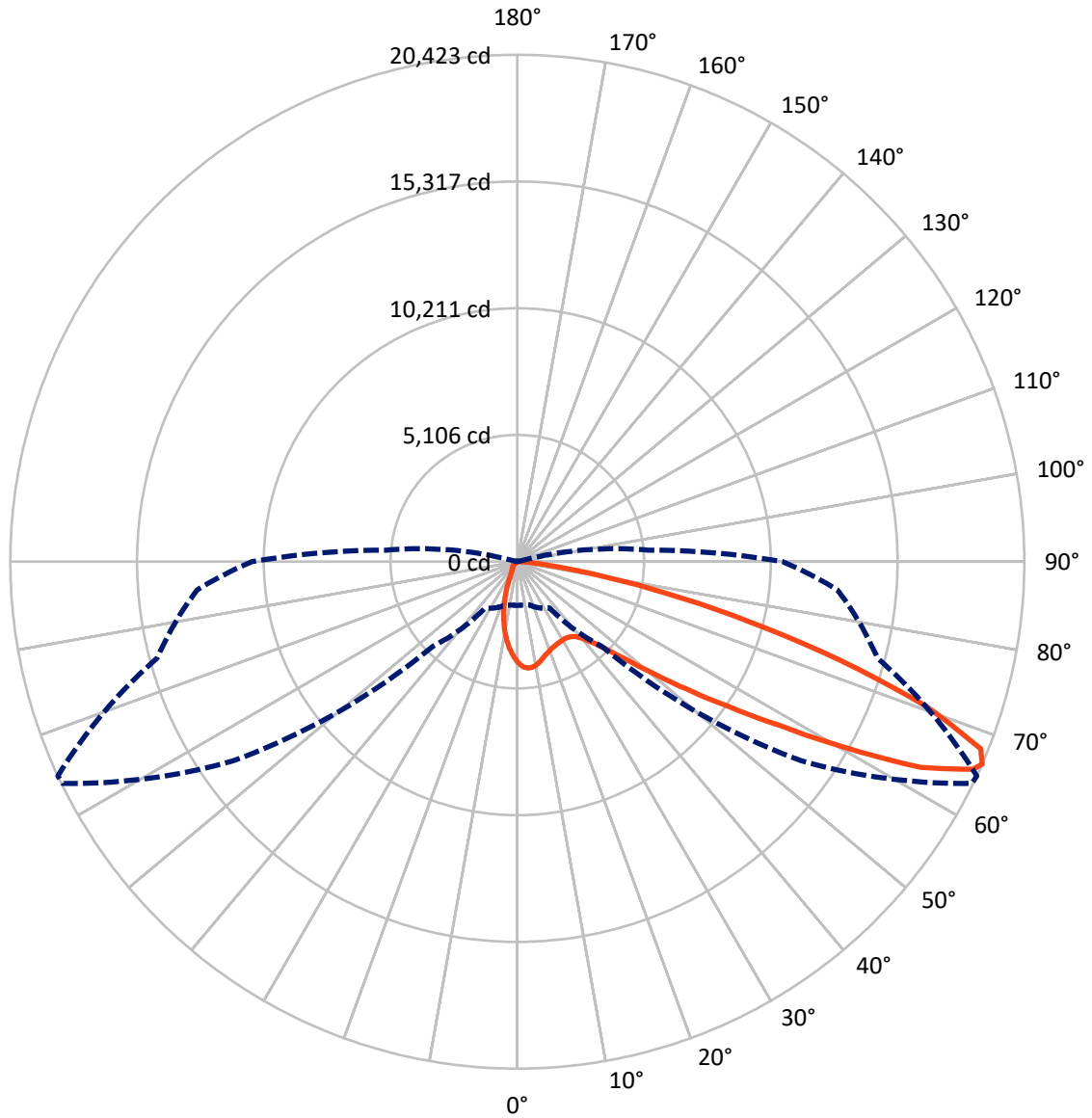
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

REPORT NUMBER: P458896
CATALOG NUMBER: GALN-SA4B-735-U-SL2-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458896

CATALOG NUMBER: GALN-SA4B-735-U-SL2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1774.8	0.0	1774.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15387.2	0.0	15387.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	17162.0	0.0	17162.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.8	1.9
10°-20°	725.2	4.2
20°-30°	1038.9	6.1
30°-40°	1517.4	8.8
40°-50°	2544.3	14.8
50°-60°	4246.1	24.7
60°-70°	4507.1	26.3
70°-80°	2041.3	11.9
80°-90°	208.9	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°	17162.0	100.0
0°-180°	17162.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458896

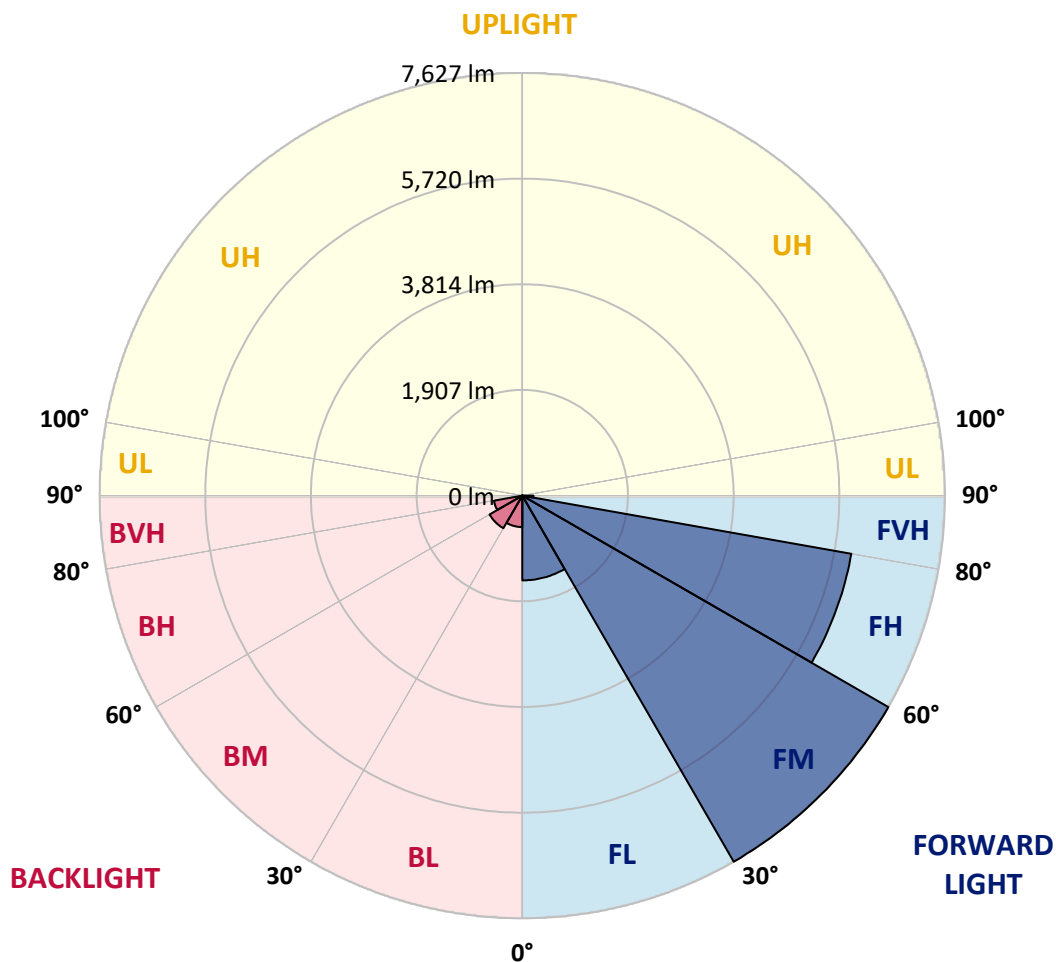
CATALOG NUMBER: GALN-SA4B-735-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1529.2	8.9			
FM (30°-60°)	7627.2	44.4			
FH (60°-80°)	6028.6	35.1			G3/7500
FVH (80°-90°)	202.2	1.2			G2/225
BL (0°-30°)	567.7	3.3	B2/1000		
BM (30°-60°)	680.6	4.0	B1/1000		
BH (60°-80°)	519.8	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.6	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-G3

Type II Short





REPORT NUMBER: P458896

CATALOG NUMBER: GALN-SA4B-735-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7
2.5°	4288.8	4293.5	4299.3	4307.4	4313.2	4295.8	4271.4	4243.6	4237.8	4178.7	4106.8
5°	4059.3	4066.3	4117.3	4145.1	4207.7	4264.5	4300.4	4305.0	4302.7	4247.1	4132.3
7.5°	3732.4	3752.1	3802.0	3850.7	3967.7	4075.5	4203.0	4292.3	4298.1	4283.0	4140.5
10°	3467.0	3479.7	3505.2	3601.5	3698.8	3863.4	4041.9	4210.0	4223.9	4284.2	4133.5
12.5°	3259.5	3278.1	3309.3	3383.5	3500.6	3655.9	3858.8	4084.8	4113.8	4262.2	4113.8
15°	3114.6	3123.9	3155.2	3228.2	3341.8	3485.5	3690.7	3953.8	3979.3	4233.2	4110.3
17.5°	3046.2	3056.7	3078.7	3136.6	3230.5	3363.8	3564.4	3848.3	3880.8	4214.6	4123.1
20°	3064.8	3074.0	3075.2	3105.3	3169.1	3281.5	3471.6	3749.8	3791.5	4203.0	4143.9
22.5°	3170.2	3171.4	3157.5	3143.6	3165.6	3246.8	3414.8	3687.2	3730.1	4200.7	4168.3
25°	3327.9	3331.4	3308.2	3259.5	3215.5	3257.2	3402.1	3646.7	3684.9	4194.9	4183.3
27.5°	3545.8	3544.7	3537.7	3456.6	3331.4	3303.6	3412.5	3624.6	3657.1	4178.7	4189.1
30°	3850.7	3841.4	3826.3	3734.8	3543.5	3416.0	3456.6	3610.7	3640.9	4155.5	4174.1
32.5°	4150.9	4185.7	4183.3	4096.4	3857.6	3616.5	3548.1	3629.3	3651.3	4140.5	4152.0
35°	4500.9	4499.8	4589.0	4556.6	4277.2	3872.7	3704.6	3690.7	3708.1	4150.9	4141.6
37.5°	4825.5	4855.6	4994.7	5028.4	4773.3	4234.3	3926.0	3822.8	3828.6	4221.6	4167.1
40°	5230.0	5288.0	5495.5	5607.9	5383.0	4771.0	4252.9	4065.1	4066.3	4395.5	4263.3
42.5°	5751.7	5843.2	6036.8	6224.6	6104.0	5406.2	4743.2	4448.8	4446.5	4701.5	4483.6
45°	6385.7	6449.5	6669.7	6967.6	6891.1	6293.0	5457.2	5043.4	5013.3	5203.4	4874.2
47.5°	6932.8	7019.8	7243.5	7583.1	7930.8	7375.6	6310.4	5860.6	5840.9	6002.0	5544.2
50°	7171.6	7248.1	7483.4	7959.8	8802.5	8796.7	7580.8	7053.4	7019.8	7106.7	6580.4
52.5°	6909.6	6981.5	7219.1	7812.6	9212.9	10528.5	9421.5	8549.8	8509.3	8398.0	7818.4
55°	6012.5	6071.6	6422.8	7104.4	9055.2	11683.0	11957.7	10398.7	10241.0	9808.6	9219.8
57.5°	4787.3	4757.1	4975.0	5766.7	8130.2	12070.1	14561.1	12701.9	12420.2	11028.1	10405.6
60°	3317.5	3410.2	3498.3	4019.9	6113.3	11399.0	16180.4	15597.4	15226.5	12227.8	11541.6
62.5°	2438.8	2500.3	2558.2	2799.3	3843.7	9101.6	16466.8	18571.8	18242.6	13501.7	12625.4
65°	1928.8	1933.4	1956.6	2194.3	2532.7	5918.6	15090.9	20249.0	20164.4	14728.0	13064.7
66°	1757.3	1758.4	1794.3	2049.4	2273.1	4819.7	13988.5	20376.5	20422.9	15022.5	12936.0
67.5°	1535.9	1531.2	1583.4	1841.9	2070.2	3475.1	12015.7	19859.6	20134.3	15248.5	12473.5
70°	1190.4	1184.6	1248.4	1545.1	1906.8	2318.3	7986.5	17052.1	17494.9	14786.0	11036.2
72.5°	792.9	797.5	906.4	1219.4	1819.9	2041.2	4804.6	12971.9	13597.9	12210.4	8682.0
75°	462.5	470.6	594.6	906.4	1579.9	1946.2	2719.3	9249.9	9649.8	8431.6	5408.6
77.5°	242.3	245.7	332.7	598.1	1211.3	1807.1	1811.7	5909.3	6097.1	4097.6	2140.9
80°	128.7	125.2	178.5	360.5	833.4	1586.9	1469.8	3128.5	3252.5	1217.1	541.3
82.5°	48.7	53.3	95.0	236.5	492.6	1139.4	1265.8	1382.9	1340.0	267.8	227.2
85°	9.3	11.6	40.6	140.3	248.1	476.4	933.1	678.1	628.3	100.8	131.0
87.5°	1.2	2.3	11.6	33.6	35.9	161.1	275.9	187.8	162.3	37.1	54.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458896

CATALOG NUMBER: GALN-SA4B-735-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7	4069.7
2.5°	4072.1	4040.8	3936.4	3833.3	3727.8	3632.7	3567.8	3462.4	3435.7	3397.4	3375.4
5°	4063.9	3990.9	3790.4	3571.3	3367.3	3147.1	2979.0	2816.7	2729.8	2685.7	2669.5
7.5°	4040.8	3924.9	3611.9	3268.8	2941.9	2612.7	2326.4	2108.5	1968.2	1872.0	1807.1
10°	3994.4	3834.4	3404.4	2932.6	2438.8	2004.2	1641.3	1365.5	1152.2	1085.0	1087.3
12.5°	3946.9	3733.6	3172.6	2559.4	1947.4	1399.1	1014.2	796.3	694.3	660.7	653.8
15°	3902.8	3637.4	2945.4	2197.7	1450.1	906.4	653.8	577.3	549.4	543.6	542.5
17.5°	3879.6	3548.1	2703.1	1783.9	1011.9	615.5	523.9	503.1	495.0	489.2	486.8
20°	3859.9	3470.5	2471.3	1396.8	692.0	504.2	469.5	449.7	435.8	430.0	426.6
22.5°	3846.0	3390.5	2231.3	1081.5	529.7	447.4	416.1	390.6	370.9	364.0	359.3
25°	3825.2	3302.4	1989.1	790.5	446.3	397.6	361.7	331.5	306.0	293.3	290.9
27.5°	3795.0	3202.7	1723.6	585.4	398.7	353.5	309.5	272.4	246.9	233.0	234.1
30°	3746.3	3098.4	1458.2	464.8	360.5	308.3	260.8	224.9	200.5	190.1	188.9
32.5°	3688.4	2972.0	1214.8	398.7	325.7	267.8	217.9	186.6	168.1	160.0	158.8
35°	3633.9	2844.5	966.7	358.2	289.8	230.7	183.1	156.5	142.6	135.6	136.8
37.5°	3603.8	2730.9	753.4	325.7	260.8	198.2	157.6	134.5	121.7	115.9	114.8
40°	3623.5	2638.2	599.3	296.7	228.4	170.4	135.6	115.9	103.2	95.0	95.0
42.5°	3716.2	2597.6	483.4	268.9	198.2	147.2	118.2	99.7	85.8	77.7	78.8
45°	3999.0	2640.5	404.5	243.4	170.4	127.5	102.0	82.3	69.5	63.8	62.6
47.5°	4468.5	2801.6	350.1	216.8	146.1	109.0	85.8	68.4	55.6	51.0	49.8
50°	5289.2	3134.3	309.5	190.1	124.0	92.7	70.7	54.5	44.0	39.4	39.4
52.5°	6418.2	3859.9	280.5	160.0	104.3	78.8	58.0	44.0	34.8	31.3	30.1
55°	7598.2	4625.0	265.4	134.5	86.9	64.9	46.4	34.8	26.7	23.2	22.0
57.5°	8733.0	5225.4	248.1	109.0	69.5	49.8	35.9	26.7	18.5	16.2	15.1
60°	9821.4	5711.1	211.0	86.9	54.5	35.9	26.7	18.5	12.8	10.4	10.4
62.5°	10795.1	5993.9	165.8	69.5	41.7	25.5	17.4	13.9	9.3	7.0	7.0
65°	10908.7	5626.5	125.2	53.3	30.1	16.2	10.4	10.4	7.0	4.6	4.6
66°	10680.3	5314.7	110.1	48.7	26.7	13.9	9.3	8.1	5.8	3.5	3.5
67.5°	10170.3	4782.6	95.0	41.7	22.0	10.4	7.0	7.0	4.6	2.3	2.3
70°	8787.4	3906.3	75.3	31.3	16.2	8.1	4.6	4.6	3.5	2.3	2.3
72.5°	6697.5	2916.4	61.4	23.2	11.6	5.8	3.5	3.5	3.5	2.3	2.3
75°	4039.6	1570.6	47.5	17.4	10.4	4.6	2.3	3.5	4.6	3.5	2.3
77.5°	1488.3	534.4	37.1	13.9	8.1	4.6	2.3	2.3	4.6	3.5	3.5
80°	365.1	139.1	26.7	11.6	8.1	4.6	2.3	2.3	4.6	4.6	4.6
82.5°	169.2	59.1	18.5	10.4	8.1	4.6	2.3	2.3	3.5	4.6	4.6
85°	97.4	27.8	15.1	11.6	8.1	4.6	2.3	2.3	3.5	4.6	4.6
87.5°	39.4	13.9	13.9	11.6	9.3	5.8	2.3	2.3	2.3	3.5	3.5
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)