

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: P458811

Luminaire Tested: **GALN-SA3C-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458811
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-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 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: 16173 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

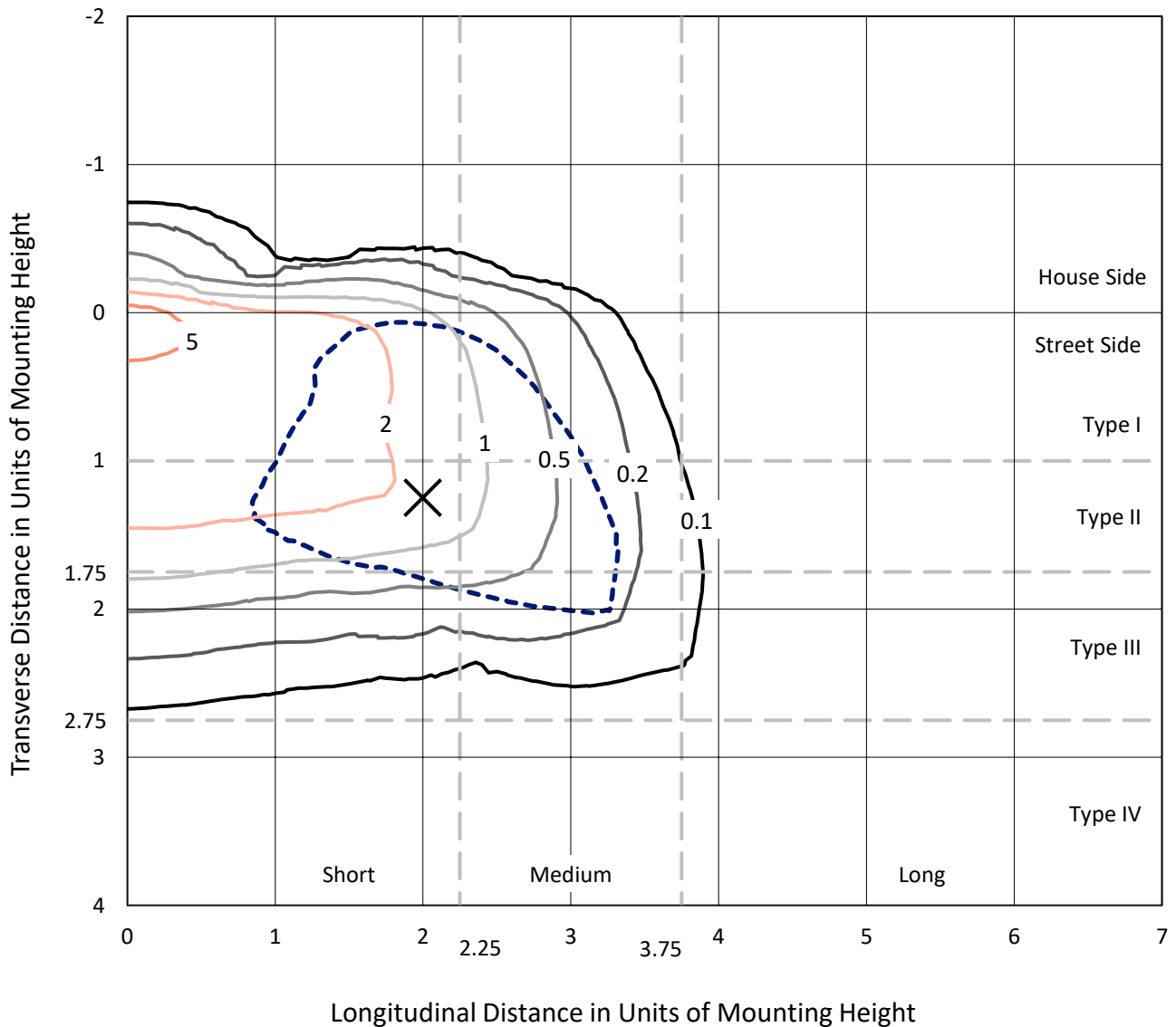
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458811
 CATALOG NUMBER: GALN-SA3C-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

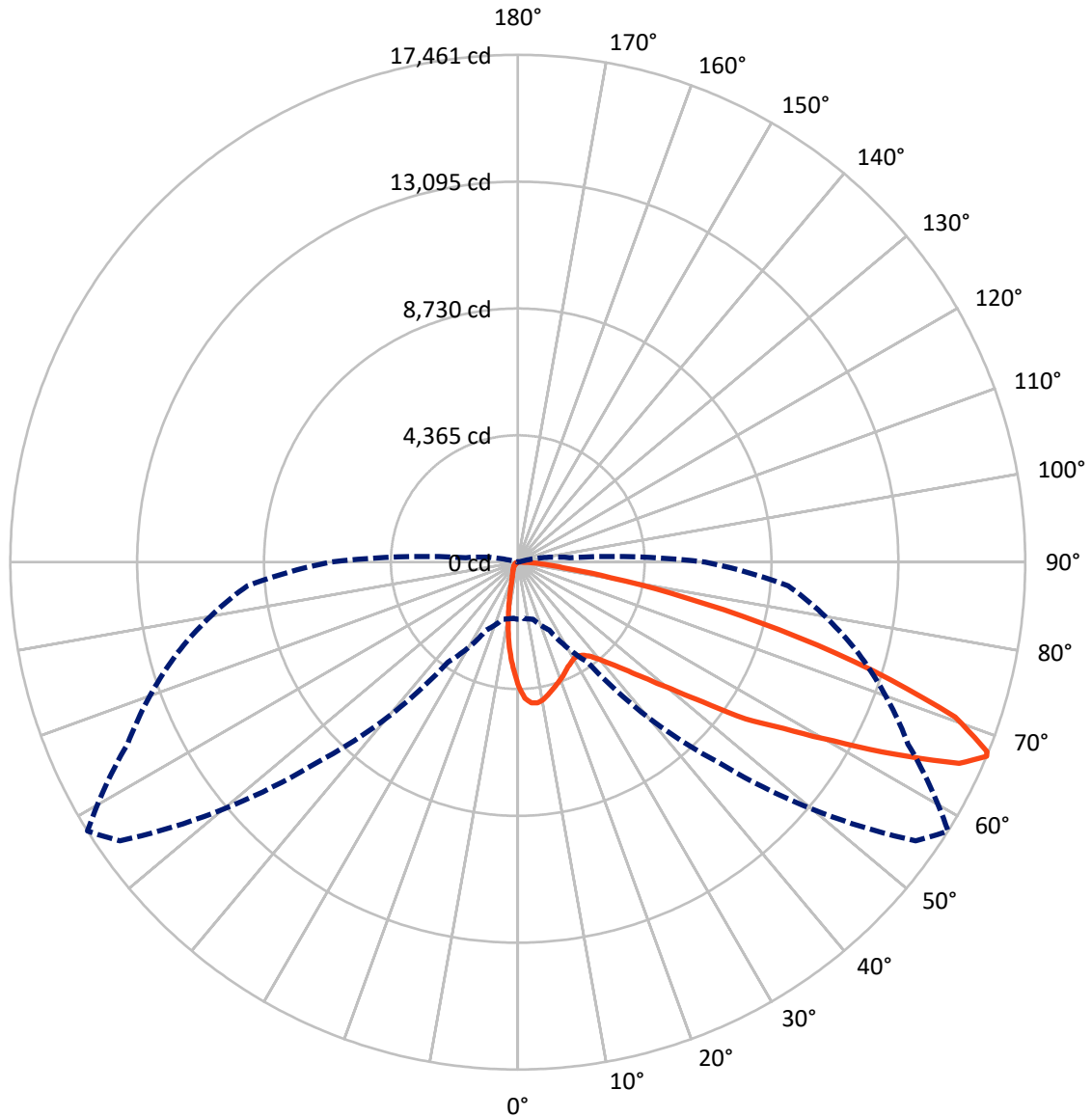
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type III - Short - N/A

REPORT NUMBER: P458811
CATALOG NUMBER: GALN-SA3C-735-U-SL3-HSS

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	1167.1	0.0	1167.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	15005.9	0.0	15005.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	16173.0	0.0	16173.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	347.9	2.2
10°-20°	751.4	4.6
20°-30°	1018.2	6.3
30°-40°	1412.2	8.7
40°-50°	2252.2	13.9
50°-60°	3893.2	24.1
60°-70°	4447.2	27.5
70°-80°	1854.1	11.5
80°-90°	196.6	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°	16173.0	100.0
0°-180°	16173.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458811

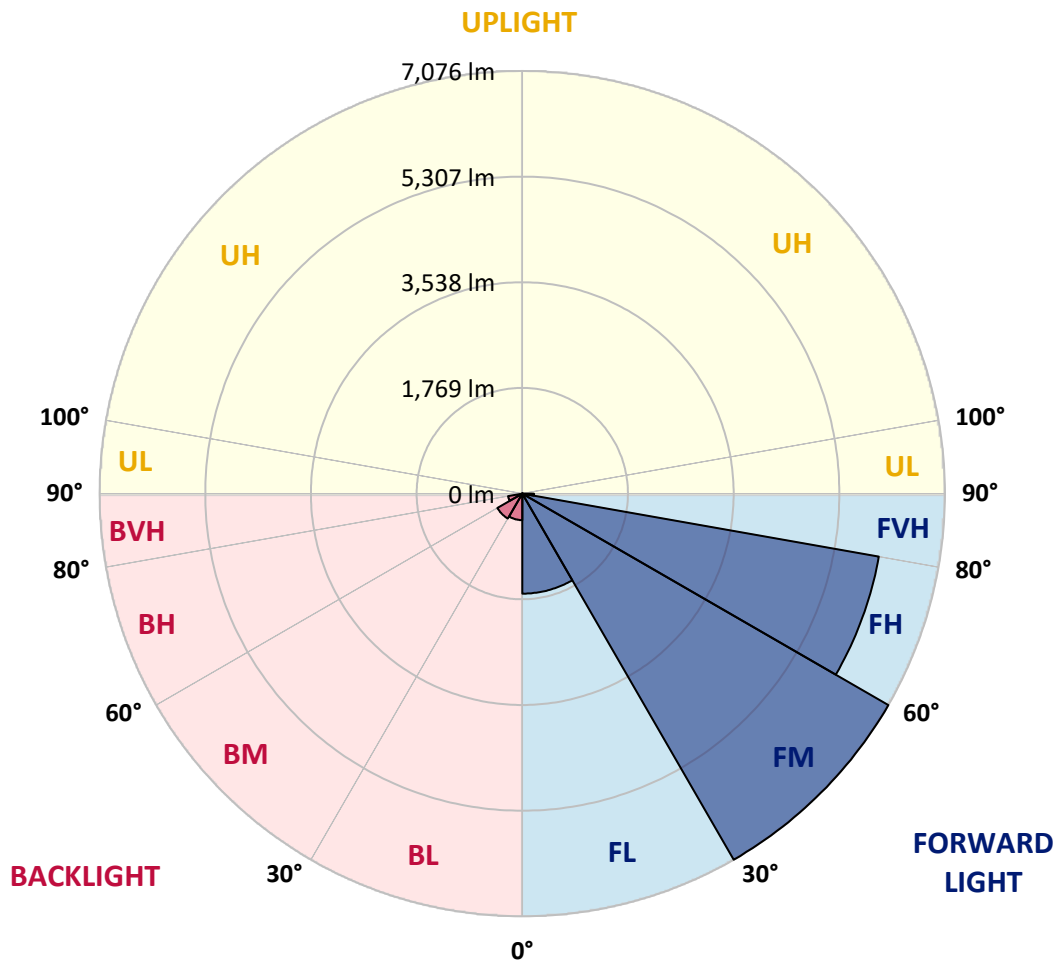
CATALOG NUMBER: GALN-SA3C-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1674.3	10.4			
FM (30°-60°)	7076.4	43.8			
FH (60°-80°)	6060.0	37.5			G3/7500
FVH (80°-90°)	195.2	1.2			G2/225
BL (0°-30°)	443.2	2.7	B1/500		
BM (30°-60°)	481.2	3.0	B1/1000		
BH (60°-80°)	241.3	1.5	B1/500		G1/500
BVH (80°-90°)	1.4	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





REPORT NUMBER: P458811

CATALOG NUMBER: GALN-SA3C-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3
2.5°	4975.7	4983.3	4955.2	4932.5	4874.2	4811.5	4728.3	4683.9	4608.3	4477.5	4332.7
5°	5092.5	5102.2	5097.9	5092.5	5069.8	5009.3	4903.3	4864.4	4753.1	4540.2	4278.7
7.5°	4833.1	4868.8	4873.1	4915.2	4955.2	4960.6	4920.6	4891.5	4788.8	4539.1	4182.5
10°	4489.4	4513.2	4547.8	4596.4	4692.6	4772.6	4811.5	4807.2	4747.7	4505.6	4070.1
12.5°	4142.5	4155.5	4208.4	4291.6	4409.4	4545.6	4649.4	4669.9	4671.0	4465.6	3976.1
15°	3844.2	3838.8	3879.9	3976.1	4141.4	4312.2	4498.1	4530.5	4582.4	4426.7	3888.5
17.5°	3589.2	3617.3	3623.7	3729.6	3882.0	4103.6	4340.3	4397.5	4501.3	4393.2	3816.1
20°	3431.4	3446.5	3460.5	3520.0	3657.2	3890.7	4192.2	4271.1	4425.6	4363.0	3735.1
22.5°	3384.9	3394.6	3382.7	3401.1	3498.4	3705.9	4031.2	4136.0	4353.2	4334.9	3669.1
25°	3420.6	3430.3	3402.2	3380.6	3414.1	3555.6	3875.6	4003.1	4294.9	4329.5	3619.4
27.5°	3507.0	3525.4	3486.5	3447.6	3428.1	3474.6	3753.4	3901.5	4254.9	4355.4	3596.7
30°	3642.1	3652.9	3623.7	3576.2	3531.9	3485.4	3689.7	3831.2	4244.1	4415.9	3594.6
32.5°	3789.1	3811.8	3795.6	3764.2	3707.0	3596.7	3708.0	3833.4	4270.0	4503.5	3621.6
35°	3970.7	3996.6	4011.7	4005.2	3931.7	3794.5	3824.8	3930.7	4339.2	4664.5	3695.1
37.5°	4149.0	4171.7	4257.1	4286.2	4221.4	4091.7	4051.7	4122.0	4491.6	4875.2	3828.0
40°	4353.2	4383.5	4503.5	4614.8	4583.4	4447.3	4373.8	4432.1	4725.0	5193.0	4079.8
42.5°	4548.9	4602.9	4785.5	4982.2	5011.4	4859.0	4810.4	4829.8	5070.9	5650.1	4431.1
45°	4826.6	4877.4	5113.0	5379.9	5517.2	5398.3	5348.6	5345.4	5545.3	6293.2	5000.6
47.5°	5227.6	5273.0	5550.7	5814.4	6058.7	6074.9	5980.8	6013.3	6141.9	7045.4	5698.8
50°	5719.3	5826.3	6008.9	6283.4	6609.8	6873.5	6902.7	6859.5	6969.7	7916.5	6537.4
52.5°	6433.7	6474.7	6642.3	6868.1	7250.7	7698.1	8045.1	7985.6	7951.0	8746.5	7384.7
55°	6966.5	7021.6	7282.1	7592.2	8153.1	8743.2	9495.4	9516.0	9079.3	9544.1	8213.7
57.5°	6805.4	6889.7	7284.2	7907.8	9140.9	10219.5	10779.3	10793.4	10123.3	10318.9	9149.6
60°	5978.7	6018.7	6583.9	7416.1	9225.2	11819.0	12600.4	12486.9	11185.7	11185.7	9976.4
62.5°	4239.8	4302.4	4760.7	5985.2	8331.5	12374.5	14781.3	14546.8	12649.0	12014.6	10469.2
65°	2709.4	2648.9	2952.6	3778.3	6206.7	11554.2	16680.2	16694.3	14025.9	12346.4	10200.1
67°	1962.6	1938.9	2026.4	2583.0	4208.4	9712.7	16720.2	17460.5	14817.0	12136.8	9339.8
67.5°	1795.1	1813.5	1877.3	2330.1	3823.7	8838.3	16538.6	17415.1	14995.3	12010.3	9028.5
70°	1360.7	1329.3	1398.5	1648.1	2292.3	5575.6	14226.9	15972.3	14773.8	10755.6	7214.0
72.5°	1000.8	997.5	1093.7	1347.7	1764.9	2969.9	10679.9	12806.8	12069.8	8189.9	4542.4
75°	675.5	705.7	859.2	1126.1	1599.5	1925.9	7281.0	9291.2	8379.0	4650.4	1856.7
77.5°	384.7	386.9	553.3	904.6	1436.3	1549.8	4314.3	5919.2	4435.4	1546.5	551.2
80°	166.4	182.6	274.5	657.1	1191.0	1372.5	2473.8	3253.0	1794.0	327.5	178.3
82.5°	61.6	72.4	121.0	404.2	868.9	1130.5	1494.7	1553.0	608.5	115.6	111.3
85°	0.0	2.2	44.3	189.1	452.8	504.7	998.6	920.8	269.1	55.1	72.4
87.5°	0.0	0.0	0.0	19.5	59.4	188.0	310.2	345.8	64.8	19.5	17.3
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°	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3	4287.3
2.5°	4254.9	4184.6	4008.5	3832.3	3701.6	3592.4	3428.1	3338.4	3290.9	3220.6	3224.9
5°	4147.9	4005.2	3695.1	3374.1	3114.7	2861.8	2559.2	2437.1	2334.4	2276.0	2237.1
7.5°	3989.0	3778.3	3319.0	2891.0	2492.2	2050.2	1718.4	1496.8	1347.7	1292.6	1239.6
10°	3815.0	3535.1	2937.5	2344.1	1790.8	1334.7	1053.7	850.5	778.1	711.1	717.6
12.5°	3654.0	3313.6	2587.3	1850.2	1254.7	848.4	661.4	578.2	554.4	546.9	546.9
15°	3522.1	3101.7	2211.2	1390.9	860.3	609.5	529.6	506.9	498.2	496.1	496.1
17.5°	3381.6	2900.7	1871.8	1027.8	625.8	510.1	483.1	468.0	464.7	462.6	462.6
20°	3256.3	2698.6	1549.8	765.2	505.8	459.3	442.0	432.3	429.1	426.9	428.0
22.5°	3137.4	2519.2	1247.2	578.2	445.3	418.2	401.0	391.2	384.7	379.3	380.4
25°	3031.5	2346.3	1002.9	473.4	401.0	377.2	359.9	345.8	331.8	325.3	324.2
27.5°	2956.9	2195.0	781.4	405.3	361.0	335.0	313.4	296.1	277.8	268.0	265.9
30°	2895.3	2041.5	618.2	357.7	321.0	296.1	269.1	244.2	224.8	215.1	210.7
32.5°	2855.3	1895.6	487.4	318.8	287.5	257.2	227.0	202.1	180.5	170.8	168.6
35°	2848.8	1773.5	398.8	286.4	257.2	224.8	193.5	166.4	148.1	138.3	136.2
37.5°	2895.3	1679.5	334.0	260.5	232.4	196.7	162.1	137.3	121.0	113.5	112.4
40°	3019.6	1620.0	289.6	238.8	209.7	170.8	138.3	116.7	100.5	92.9	92.9
42.5°	3256.3	1622.2	260.5	218.3	187.0	145.9	117.8	97.3	83.2	76.7	74.6
45°	3625.9	1695.7	235.6	197.8	165.4	126.4	100.5	80.0	65.9	60.5	60.5
47.5°	4120.9	1841.6	214.0	177.2	145.9	108.1	85.4	64.8	53.0	47.6	47.6
50°	4768.2	2076.1	195.6	160.0	129.7	92.9	69.2	53.0	41.1	36.7	35.7
52.5°	5444.8	2365.7	174.0	144.8	111.3	78.9	56.2	41.1	31.3	28.1	27.0
55°	6191.6	2648.9	153.5	129.7	90.8	65.9	44.3	32.4	22.7	19.5	19.5
57.5°	6944.9	2926.7	128.6	108.1	71.3	48.6	34.6	23.8	15.1	11.9	11.9
60°	7582.5	3016.4	109.2	87.5	54.0	34.6	24.9	15.1	8.6	5.4	5.4
62.5°	7670.0	2713.7	91.9	67.0	38.9	23.8	13.0	8.6	3.2	2.2	2.2
65°	7194.5	2204.7	76.7	50.8	25.9	11.9	5.4	3.2	1.1	0.0	0.0
67°	6446.6	1787.6	62.7	37.8	18.4	7.6	3.2	1.1	0.0	0.0	0.0
67.5°	6255.3	1704.3	60.5	35.7	16.2	6.5	2.2	1.1	0.0	0.0	0.0
70°	4908.7	1276.4	43.2	21.6	9.7	4.3	0.0	0.0	0.0	0.0	0.0
72.5°	3050.9	721.9	31.3	13.0	6.5	2.2	0.0	0.0	0.0	0.0	0.0
75°	1153.2	252.9	21.6	8.6	4.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	358.8	96.2	13.0	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	121.0	36.7	8.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	74.6	15.1	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.5	6.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	2.2	1.1	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)