

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: P459404

Luminaire Tested: **GALN-SA8C-735-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38827 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

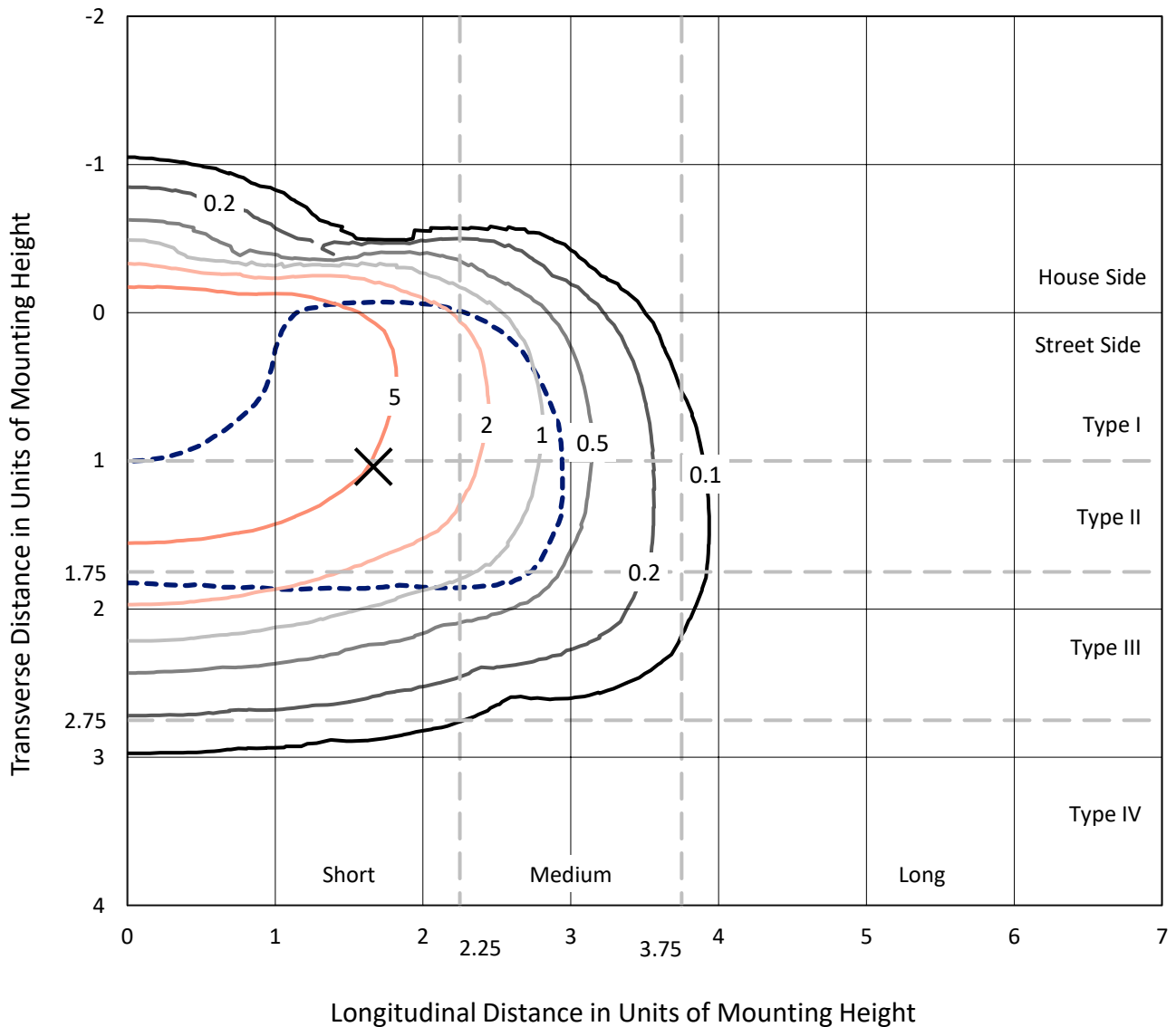
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

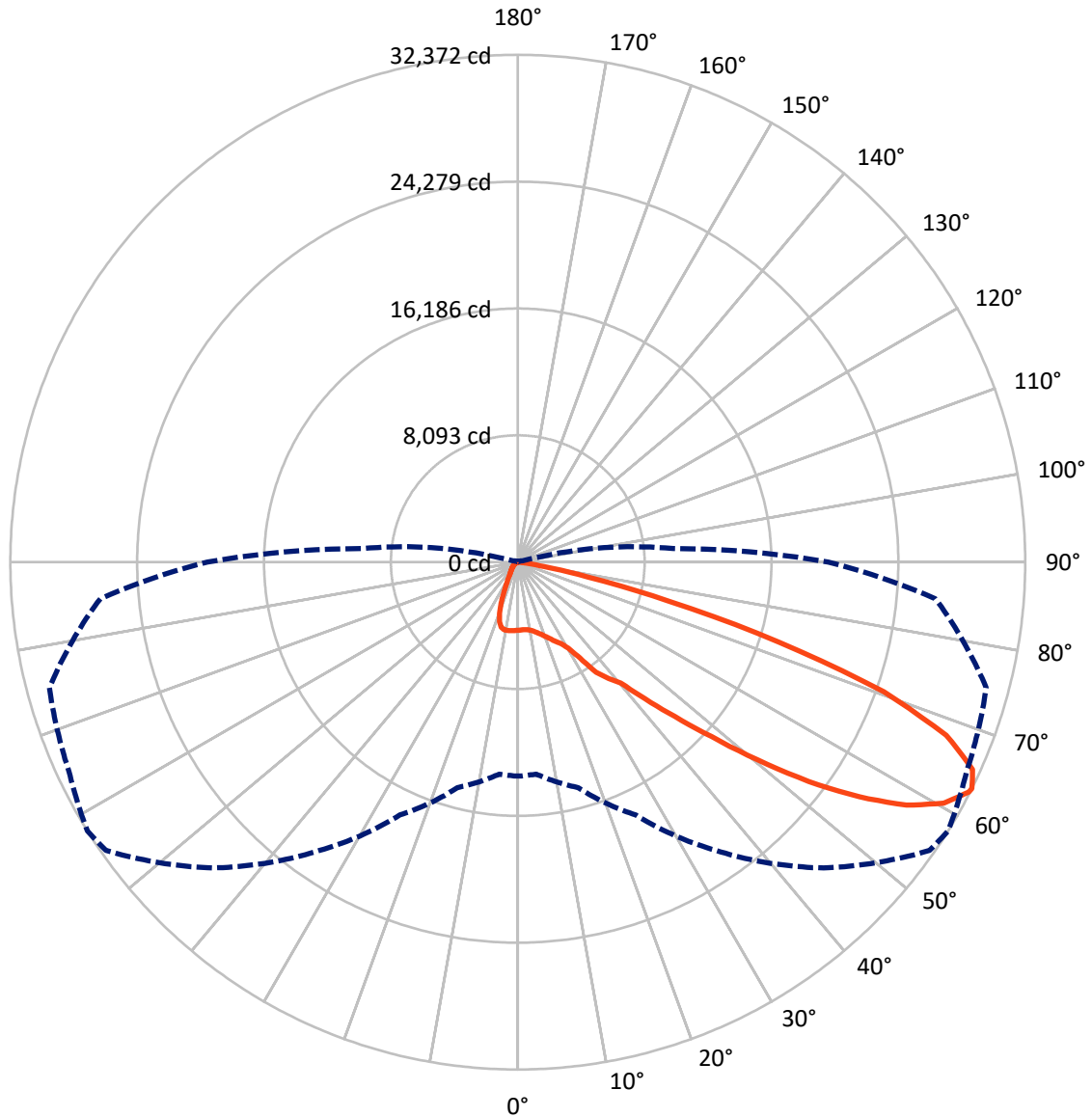
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4020.3	0.0	4020.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	34806.7	0.0	34806.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	38827.0	0.0	38827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.9	1.0
10°-20°	1108.3	2.9
20°-30°	1923.5	5.0
30°-40°	3534.7	9.1
40°-50°	6654.0	17.1
50°-60°	11381.1	29.3
60°-70°	10897.4	28.1
70°-80°	2778.9	7.2
80°-90°	142.1	0.4
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°	38827.0	100.0
0°-180°	38827.0	100.0

Coefficient of Utilization



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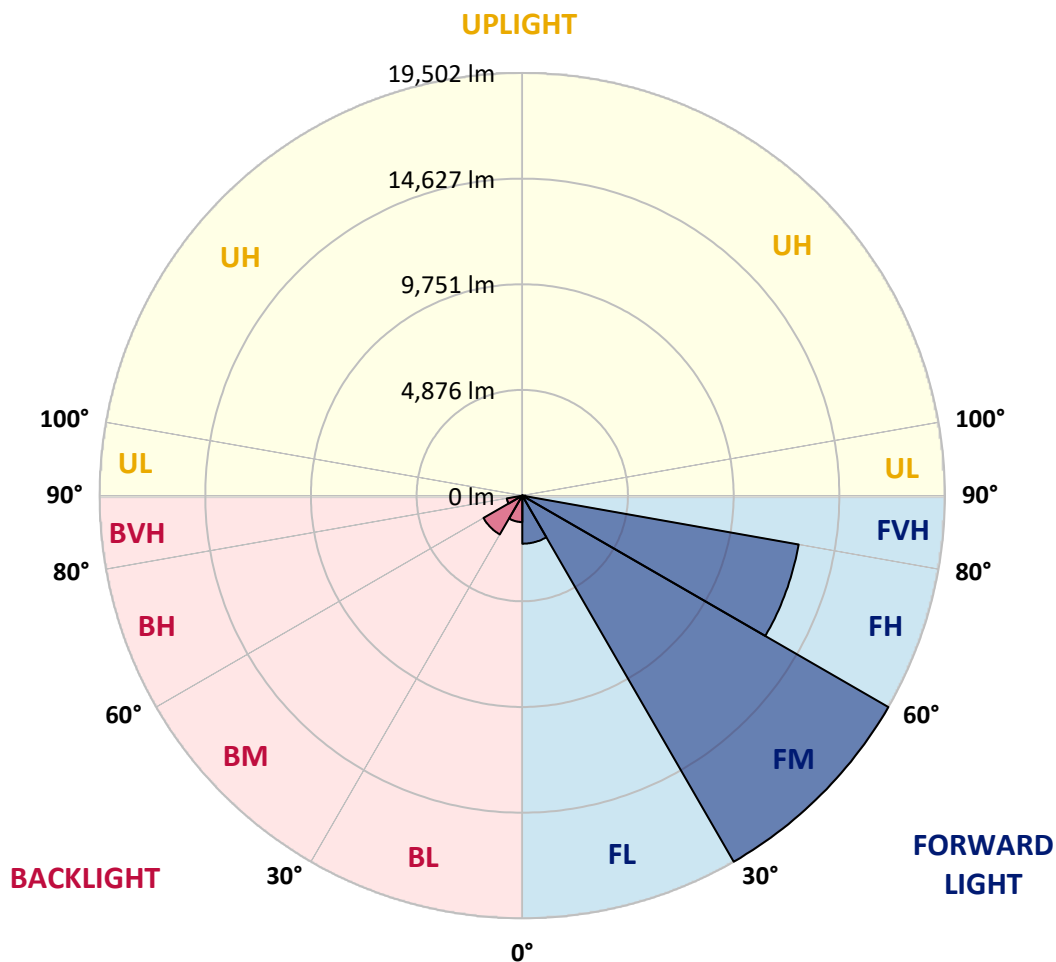
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2219.5	5.7			
FM	(30°-60°)	19502.0	50.2			
FH	(60°-80°)	12948.6	33.3			G5
FVH	(80°-90°)	136.6	0.4			G2/225
BL	(0°-30°)	1219.2	3.1	B3/2500		
BM	(30°-60°)	2067.8	5.3	B2/2500		
BH	(60°-80°)	727.7	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8
2.5°	4238.7	4253.3	4267.9	4273.8	4294.2	4314.7	4329.3	4326.4	4349.8	4361.4	4361.4
5°	4069.1	4069.1	4107.1	4142.2	4200.7	4259.1	4314.7	4326.4	4370.2	4411.1	4425.8
7.5°	3925.9	3934.7	3963.9	4028.2	4107.1	4209.4	4320.5	4346.8	4422.8	4513.5	4551.5
10°	3858.7	3864.5	3902.5	3969.7	4069.1	4209.4	4364.4	4414.1	4531.0	4674.2	4726.9
12.5°	3844.0	3852.8	3890.8	3966.8	4080.8	4250.4	4460.8	4513.5	4683.0	4867.2	4946.1
15°	3870.3	3876.2	3914.2	3996.0	4121.7	4323.4	4589.5	4662.5	4864.2	5077.6	5180.0
17.5°	3963.9	3958.0	3984.4	4051.6	4191.9	4414.1	4744.4	4832.1	5068.9	5361.2	5428.4
20°	4361.4	4323.4	4300.1	4241.6	4297.1	4542.7	4931.5	5060.1	5352.4	5650.6	5697.4
22.5°	5218.0	5133.2	4966.6	4738.5	4563.2	4718.1	5156.6	5305.7	5682.7	5975.1	5975.1
25°	6308.3	6200.2	6033.5	5536.6	5106.9	5007.5	5410.9	5598.0	6042.3	6337.5	6241.1
27.5°	7673.5	7588.7	7264.2	6685.4	6027.7	5513.2	5706.1	5878.6	6360.9	6717.6	6515.9
30°	8784.3	8743.4	8477.3	7959.9	7235.0	6483.7	6255.7	6369.7	6784.8	7197.0	6989.4
32.5°	9722.6	9722.6	9450.8	8968.4	8290.3	7623.8	7188.2	7270.1	7667.6	8144.1	7758.2
35°	10754.5	10719.5	10500.2	10041.3	9281.2	8693.7	8515.3	8626.4	8986.0	9339.7	8389.7
37.5°	11839.1	11827.4	11599.3	11155.0	10535.3	9795.7	9377.7	9406.9	9591.1	9807.4	9129.2
40°	13017.1	13034.7	12736.5	12461.7	11877.1	11119.9	10319.0	10134.8	10307.3	10918.2	10494.4
42.5°	14408.6	14367.6	14239.0	13864.8	13394.2	12941.1	11979.4	11912.1	12064.1	12718.9	12260.0
45°	16025.1	16083.6	15861.4	15653.9	15338.2	14961.1	14157.2	14040.2	14206.9	15224.1	14572.3
47.5°	17644.6	17589.0	17732.3	17694.3	17863.8	17583.2	16872.8	16633.1	17033.6	17998.3	17039.5
50°	18878.2	18939.6	19237.7	19673.3	20401.2	20559.0	19877.9	19796.1	19974.4	20594.1	19246.5
52.5°	19679.1	19883.8	20351.5	21471.1	22783.6	23803.8	23286.4	23242.5	23169.5	23336.1	21357.1
55°	20202.4	20409.9	21020.9	22669.6	24929.2	26586.7	26613.0	26425.9	25943.6	25823.8	23330.2
57.5°	19880.8	19921.8	20792.9	22997.0	26119.0	28571.6	29431.0	29243.9	28352.3	27899.2	25072.5
60°	17869.7	17954.4	19167.6	21757.5	25601.6	29220.5	31299.0	31214.2	30237.8	29726.3	26428.9
62.5°	14306.3	14551.8	15800.0	18688.2	23195.8	28127.3	32056.1	32295.8	31535.7	30831.2	26855.7
63°	13651.5	13572.5	14890.9	17793.7	22558.5	27586.5	32067.8	32371.8	31594.2	30936.5	26738.7
65°	10105.6	10342.4	11198.9	14031.5	18772.9	25069.6	31345.7	31883.6	31377.9	30471.7	25443.7
67.5°	5674.0	5662.3	6609.4	9181.8	13139.9	19664.5	28343.6	29480.7	29375.5	27343.8	21091.1
70°	2777.1	2820.9	3209.7	4759.0	7620.8	13566.7	23552.4	24780.2	24818.2	21476.9	14584.0
72.5°	1257.0	1277.4	1555.2	2318.1	3917.1	7223.3	16229.7	17401.9	17185.6	13686.5	8053.5
75°	663.6	707.4	856.5	1166.4	1888.4	2978.8	8828.1	9962.3	9509.2	6252.8	2964.1
77.5°	491.1	505.7	581.7	742.5	1011.4	1160.5	3809.0	4531.0	4244.5	2262.6	982.2
80°	359.6	371.2	432.6	526.2	637.3	590.5	1435.3	1645.8	1476.2	768.8	301.1
82.5°	219.2	222.2	315.7	391.7	400.5	330.3	473.6	508.6	532.0	432.6	163.7
85°	78.9	99.4	213.4	283.6	236.8	166.6	198.8	219.2	239.7	274.8	96.5
87.5°	8.8	11.7	102.3	137.4	67.2	61.4	73.1	81.9	87.7	102.3	46.8
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°	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8	4346.8
2.5°	4373.1	4384.8	4376.1	4361.4	4358.5	4349.8	4332.2	4332.2	4332.2	4338.1	4332.2
5°	4437.5	4446.2	4425.8	4396.5	4364.4	4323.4	4279.6	4253.3	4250.4	4244.5	4229.9
7.5°	4560.2	4571.9	4525.1	4455.0	4367.3	4267.9	4174.4	4086.7	4045.7	4013.6	4013.6
10°	4738.5	4750.2	4656.7	4531.0	4355.6	4153.9	3931.7	3730.0	3572.2	3499.1	3481.6
12.5°	4951.9	4957.8	4802.9	4583.6	4294.2	3905.4	3431.9	2990.5	2683.5	2543.2	2528.6
15°	5185.8	5144.9	4940.2	4604.1	4118.8	3393.9	2575.4	2034.6	1715.9	1622.4	1657.5
17.5°	5422.6	5346.6	5045.5	4571.9	3724.2	2575.4	1730.5	1388.5	1289.1	1262.8	1262.8
20°	5644.7	5539.5	5121.5	4431.6	3040.2	1774.4	1283.3	1201.4	1183.9	1166.4	1169.3
22.5°	5866.9	5706.1	5188.7	4118.8	2265.5	1268.7	1148.8	1122.5	1099.1	1075.7	1072.8
25°	6083.2	5861.1	5215.0	3540.0	1543.5	1090.4	1049.4	1014.4	967.6	941.3	935.4
27.5°	6308.3	6048.1	5197.5	2809.2	1125.4	976.4	935.4	885.7	830.2	783.4	783.4
30°	6741.0	6404.8	5136.1	2019.9	947.1	859.4	806.8	727.9	666.5	619.7	616.8
32.5°	7331.4	6869.6	4925.6	1420.7	841.9	757.1	678.2	590.5	526.2	491.1	491.1
35°	7857.6	7337.3	4531.0	1046.5	757.1	657.7	561.3	476.5	426.8	403.4	394.6
37.5°	8658.6	8021.3	3987.3	850.7	675.3	570.0	470.6	391.7	350.8	333.2	333.2
40°	9860.0	8857.4	3320.8	745.4	596.3	485.3	391.7	330.3	298.2	277.7	277.7
42.5°	11350.9	9880.5	2645.5	669.4	523.3	418.0	327.4	280.6	251.4	236.8	233.9
45°	13227.6	10959.2	2037.5	599.3	464.8	356.6	277.7	236.8	207.5	198.8	201.7
47.5°	15186.1	11909.2	1578.5	537.9	403.4	301.1	236.8	204.6	184.2	172.5	172.5
50°	16858.2	12564.0	1198.5	467.7	356.6	254.3	207.5	184.2	166.6	160.8	157.9
52.5°	18255.5	12754.0	917.9	406.3	312.8	219.2	184.2	166.6	152.0	143.2	143.2
55°	19445.3	12587.4	719.1	342.0	263.1	190.0	163.7	149.1	131.5	122.8	119.9
57.5°	20141.0	12052.4	549.6	283.6	213.4	157.9	143.2	125.7	105.2	90.6	90.6
60°	20491.8	11274.9	420.9	233.9	163.7	125.7	116.9	93.5	73.1	61.4	58.5
62.5°	20070.9	10243.0	318.6	184.2	122.8	93.5	78.9	67.2	46.8	35.1	35.1
63°	19810.7	9944.8	306.9	175.4	114.0	87.7	73.1	61.4	40.9	32.2	29.2
65°	18059.7	8644.0	251.4	140.3	90.6	61.4	49.7	43.8	29.2	14.6	11.7
67.5°	14341.3	6612.3	198.8	105.2	64.3	43.8	29.2	26.3	8.8	0.0	0.0
70°	9696.3	4270.8	154.9	76.0	43.8	26.3	14.6	11.7	2.9	0.0	0.0
72.5°	5057.2	2189.5	119.9	55.5	26.3	17.5	8.8	2.9	0.0	0.0	0.0
75°	1789.0	745.4	87.7	35.1	17.5	8.8	2.9	0.0	0.0	0.0	0.0
77.5°	540.8	277.7	55.5	26.3	11.7	5.8	0.0	0.0	0.0	0.0	0.0
80°	190.0	102.3	32.2	17.5	8.8	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	93.5	49.7	20.5	14.6	8.8	2.9	0.0	0.0	0.0	0.0	0.0
85°	52.6	32.2	17.5	14.6	8.8	5.8	0.0	0.0	0.0	0.0	0.0
87.5°	38.0	23.4	17.5	14.6	11.7	5.8	2.9	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)