

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: P459410

Luminaire Tested: **GALN-SA8C-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459410
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
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-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38257 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - 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

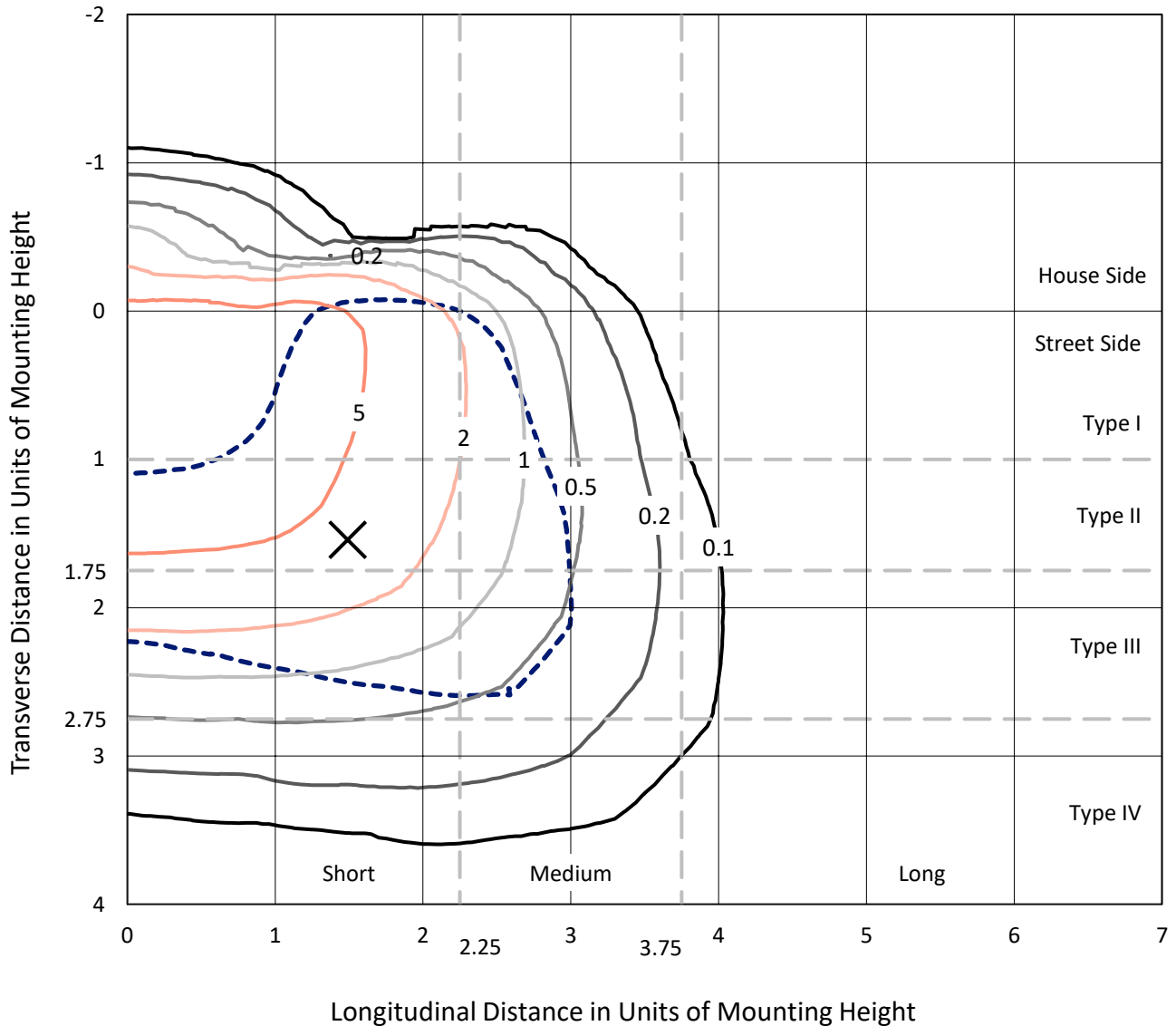




REPORT NUMBER: P459410
 CATALOG NUMBER: GALN-SA8C-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

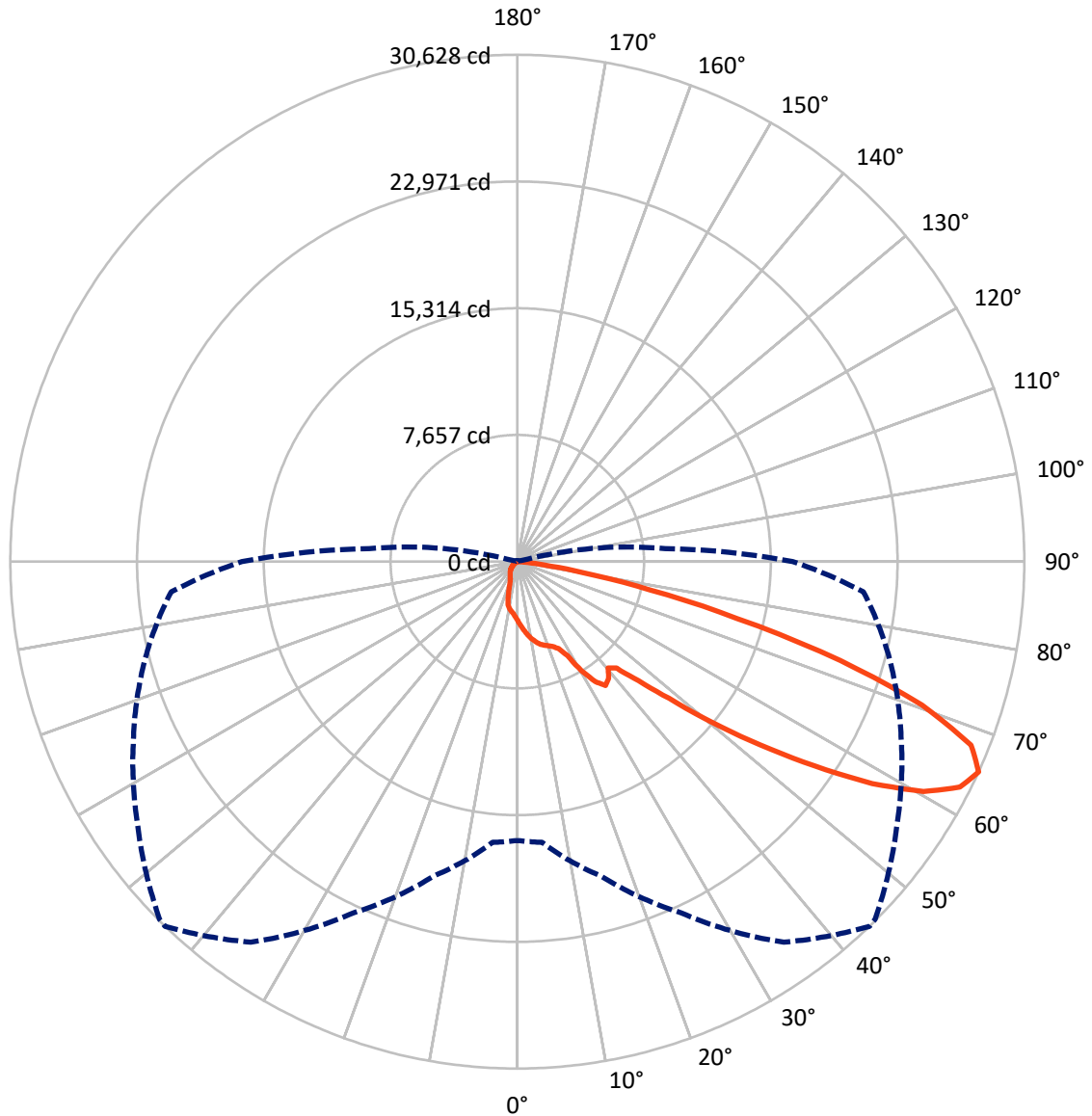
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type III - Short - N/A

REPORT NUMBER: P459410
CATALOG NUMBER: GALN-SA8C-735-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3524.8	0.0	3524.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	34732.2	0.0	34732.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	38257.0	0.0	38257.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	0.9
10°-20°	1065.8	2.8
20°-30°	1807.3	4.7
30°-40°	3004.9	7.9
40°-50°	5246.6	13.7
50°-60°	10250.0	26.8
60°-70°	11892.4	31.1
70°-80°	4330.6	11.3
80°-90°	305.1	0.8
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°	38257.0	100.0
0°-180°	38257.0	100.0

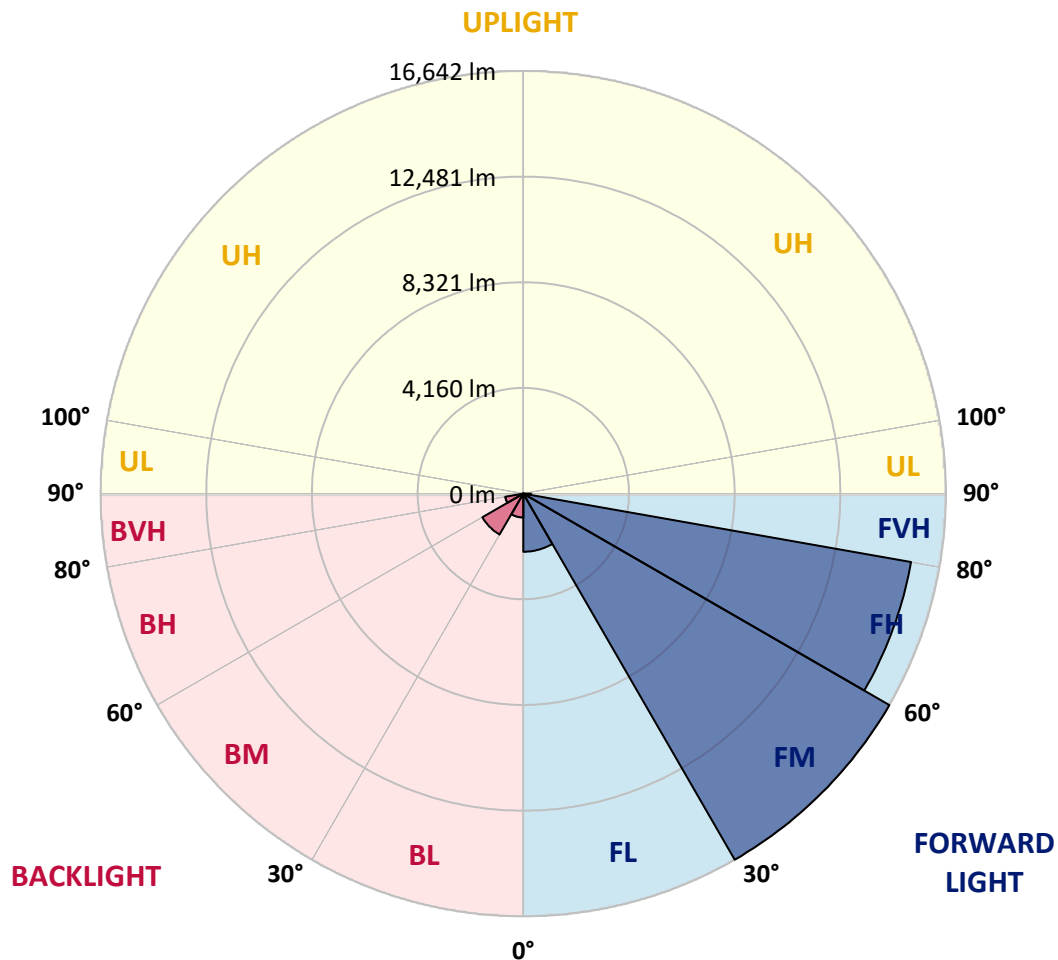


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2288.1	6.0			
FM (30°-60°)	16641.9	43.5			
FH (60°-80°)	15501.2	40.5			G5
FVH (80°-90°)	301.0	0.8			G3/500
BL (0°-30°)	939.1	2.5	B2/1000		
BM (30°-60°)	1859.7	4.9	B2/2500		
BH (60°-80°)	721.8	1.9	B2/1000		G2/1000
BVH (80°-90°)	4.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6
2.5°	4007.9	3990.3	3981.5	3934.8	3899.7	3855.8	3855.8	3800.3	3736.0	3665.8	3601.5
5°	4455.1	4425.9	4387.9	4347.0	4265.1	4148.2	4148.2	4031.2	3896.8	3776.9	3645.4
7.5°	4884.8	4858.5	4794.2	4715.3	4580.8	4458.0	4449.3	4279.7	4118.9	3937.7	3750.6
10°	5261.9	5241.5	5185.9	5033.9	4893.6	4732.8	4729.9	4539.9	4352.8	4130.6	3899.7
12.5°	5525.0	5528.0	5454.9	5308.7	5127.5	4975.5	4963.8	4776.7	4580.8	4341.1	4057.5
15°	5712.1	5712.1	5636.1	5472.4	5308.7	5174.3	5162.6	4998.9	4797.1	4537.0	4230.0
17.5°	5764.8	5782.3	5700.4	5554.3	5422.7	5305.8	5302.9	5165.5	5004.7	4753.3	4405.4
20°	5744.3	5761.8	5697.5	5583.5	5492.9	5425.7	5416.9	5361.3	5212.3	4975.5	4592.5
22.5°	5700.4	5718.0	5671.2	5604.0	5560.1	5580.6	5566.0	5612.7	5533.8	5247.3	4814.7
25°	5709.2	5726.8	5691.7	5653.7	5691.7	5817.4	5855.4	6057.1	5986.9	5592.3	5054.4
27.5°	5984.0	6019.1	5969.4	5986.9	6121.4	6413.7	6486.8	6834.7	6524.8	6030.8	5428.6
30°	6595.0	6571.6	6478.0	6562.8	7030.5	7650.3	7629.8	7574.3	7089.0	6536.5	5872.9
32.5°	7150.4	7129.9	7124.1	7489.5	8337.3	8638.4	8623.8	8085.9	7594.7	7115.3	6311.4
35°	7375.5	7296.6	7279.0	8164.8	9582.6	9185.0	9094.4	8296.3	8208.6	7746.8	6758.7
37.5°	8053.7	7998.2	7726.3	8275.9	9085.6	8954.1	8883.9	8658.8	8863.5	8305.1	7264.4
40°	9451.0	9296.1	9050.6	8512.7	8381.1	8436.7	8506.8	9123.6	9638.1	9068.1	7939.7
42.5°	11187.5	11152.4	10696.4	9693.7	8708.5	8784.5	8875.2	10094.2	10751.9	10217.0	9041.8
45°	13271.8	13321.5	12663.8	11479.8	10187.7	10252.0	10383.6	11526.6	12260.3	12003.1	10775.3
47.5°	15166.1	15128.1	14905.9	13675.2	12482.5	12339.3	12552.7	13365.4	14347.6	14388.5	12926.9
50°	17072.1	17273.8	16943.5	16461.1	15575.4	15274.3	15195.3	15592.9	17089.6	16893.8	15511.1
52.5°	19811.2	19916.5	19296.7	19174.0	19375.7	18399.3	18320.4	18416.8	19755.7	19083.3	17446.3
55°	21533.1	21471.7	21240.7	22199.6	22997.6	21778.6	21679.2	21290.4	21968.6	20629.8	19308.4
57.5°	22076.8	22164.5	22702.4	24435.9	26324.4	25289.5	25108.3	24003.3	23564.8	22071.0	21021.5
60°	21834.2	21994.9	23155.5	25733.9	28353.1	28198.2	28043.3	26187.0	24710.7	23275.4	22223.0
62.5°	20106.5	20331.6	22187.9	25502.9	29040.1	30007.7	29814.8	27549.2	25473.7	23860.0	22433.4
65°	16849.9	17016.6	19682.6	23406.9	28063.7	30627.5	30557.3	27976.0	25593.5	23325.1	20992.3
67.5°	12011.9	12579.0	15049.2	19726.5	25175.5	29569.2	29689.1	27464.5	24468.1	21012.7	17384.9
70°	7550.9	7936.8	9708.3	14122.5	20182.5	25941.4	26336.1	25122.9	21234.9	16379.3	11637.7
72.5°	3601.5	3888.0	5150.9	8939.5	14245.3	20410.5	20723.3	20623.9	16420.2	10319.3	6004.5
75°	1604.9	1713.1	2458.5	4563.3	9196.7	13719.1	14528.8	14663.3	10260.8	5048.5	2335.7
77.5°	818.5	821.4	1151.8	2210.0	4592.5	8185.3	8346.0	8816.7	5563.0	2224.6	812.7
80°	435.6	464.8	611.0	1043.6	2382.5	4031.2	4010.8	4408.3	2467.3	1090.4	271.9
82.5°	195.9	216.3	345.0	546.7	1163.5	1528.9	1648.7	1803.7	1058.2	695.7	119.9
85°	58.5	70.2	169.6	274.8	421.0	441.4	494.0	637.3	599.3	494.0	61.4
87.5°	8.8	8.8	70.2	76.0	61.4	78.9	81.9	90.6	192.9	181.2	32.2
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°	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6	3560.6
2.5°	3566.4	3546.0	3472.9	3411.5	3358.9	3326.7	3288.7	3265.3	3253.6	3244.9	3247.8
5°	3581.0	3531.4	3405.7	3306.3	3230.3	3148.4	3092.9	3060.7	3046.1	3022.7	3022.7
7.5°	3662.9	3584.0	3408.6	3256.6	3125.0	3013.9	2908.7	2870.7	2844.4	2838.5	2832.7
10°	3779.8	3680.4	3440.7	3230.3	3043.2	2891.1	2742.1	2610.5	2508.2	2446.8	2438.0
12.5°	3926.0	3782.8	3490.4	3212.7	2973.0	2704.1	2309.4	2043.4	1865.1	1809.5	1818.3
15°	4060.5	3905.5	3540.1	3198.1	2844.4	2242.2	1794.9	1490.9	1400.3	1391.5	1394.4
17.5°	4221.3	4037.1	3598.6	3177.6	2490.7	1713.1	1333.0	1251.2	1268.7	1297.9	1295.0
20°	4387.9	4177.4	3668.7	3054.9	1987.8	1289.2	1178.1	1186.9	1213.2	1239.5	1245.3
22.5°	4566.2	4338.2	3750.6	2759.6	1517.2	1122.5	1116.7	1128.4	1154.7	1183.9	1189.8
25°	4811.8	4539.9	3812.0	2373.7	1148.9	1037.8	1049.5	1069.9	1093.3	1125.5	1131.3
27.5°	5127.5	4811.8	3844.1	1870.9	993.9	961.8	964.7	993.9	1023.2	1052.4	1052.4
30°	5536.7	5136.2	3779.8	1414.9	917.9	888.7	877.0	894.5	932.5	961.8	964.7
32.5°	5902.2	5443.2	3610.3	1081.6	862.4	821.4	792.2	795.1	809.8	827.3	830.2
35°	6267.6	5741.4	3320.9	909.1	803.9	757.1	713.3	689.9	678.2	669.4	678.2
37.5°	6735.3	6112.6	2935.0	827.3	754.2	695.7	634.4	584.7	543.7	517.4	523.3
40°	7337.5	6627.1	2479.0	774.7	707.4	637.3	555.4	491.1	421.0	397.6	385.9
42.5°	8331.4	7407.7	1999.5	730.8	660.7	575.9	473.6	385.9	321.6	298.2	304.0
45°	9901.2	8392.8	1540.6	684.1	613.9	508.7	397.6	304.0	251.4	239.7	245.6
47.5°	11982.6	9667.4	1186.9	631.4	555.4	435.6	312.8	239.7	207.6	204.6	201.7
50°	13941.2	10854.2	991.0	573.0	485.3	362.5	257.3	201.7	181.2	178.3	178.3
52.5°	15712.8	11704.9	806.8	505.7	409.3	298.2	216.3	178.3	160.8	152.0	152.0
55°	17288.4	12260.3	654.8	423.9	321.6	236.8	187.1	160.8	140.3	128.6	125.7
57.5°	18478.2	12327.6	491.1	339.1	239.7	184.2	160.8	140.3	116.9	102.3	96.5
60°	18986.9	11745.8	362.5	257.3	178.3	146.2	128.6	114.0	87.7	73.1	70.2
62.5°	18475.3	10614.5	268.9	195.9	137.4	108.2	90.6	84.8	61.4	43.8	40.9
65°	16642.4	8980.4	213.4	149.1	102.3	78.9	58.5	55.5	38.0	20.5	17.5
67.5°	13333.2	7033.5	169.6	111.1	73.1	52.6	38.0	35.1	20.5	5.8	5.8
70°	8670.5	4496.0	137.4	81.9	46.8	35.1	23.4	17.5	11.7	2.9	0.0
72.5°	4288.5	2101.9	111.1	64.3	32.2	17.5	8.8	5.8	8.8	0.0	0.0
75°	1663.4	748.4	81.9	43.8	17.5	8.8	5.8	0.0	2.9	0.0	0.0
77.5°	552.5	248.5	49.7	23.4	11.7	5.8	0.0	0.0	0.0	0.0	0.0
80°	204.6	96.5	26.3	14.6	5.8	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	81.9	38.0	17.5	11.7	5.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.9	23.4	11.7	8.8	5.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	29.2	17.5	11.7	8.8	5.8	2.9	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)