

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: P459497

Luminaire Tested: **GALN-SA9B-735-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459497
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-SA9B-735-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 34762 lumens
Efficiency: N/A
Efficacy: 95.5 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

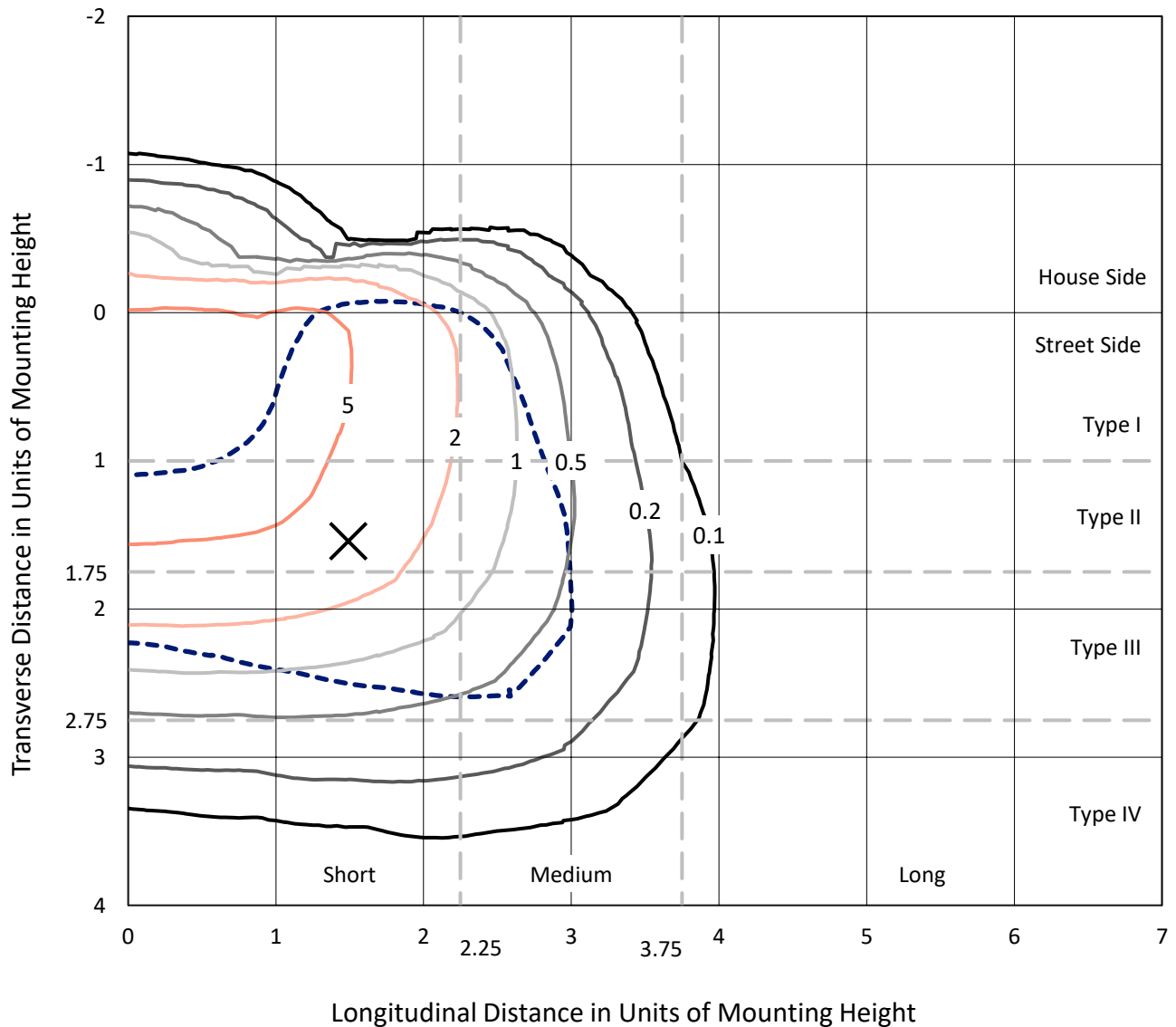
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459497
 CATALOG NUMBER: GALN-SA9B-735-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

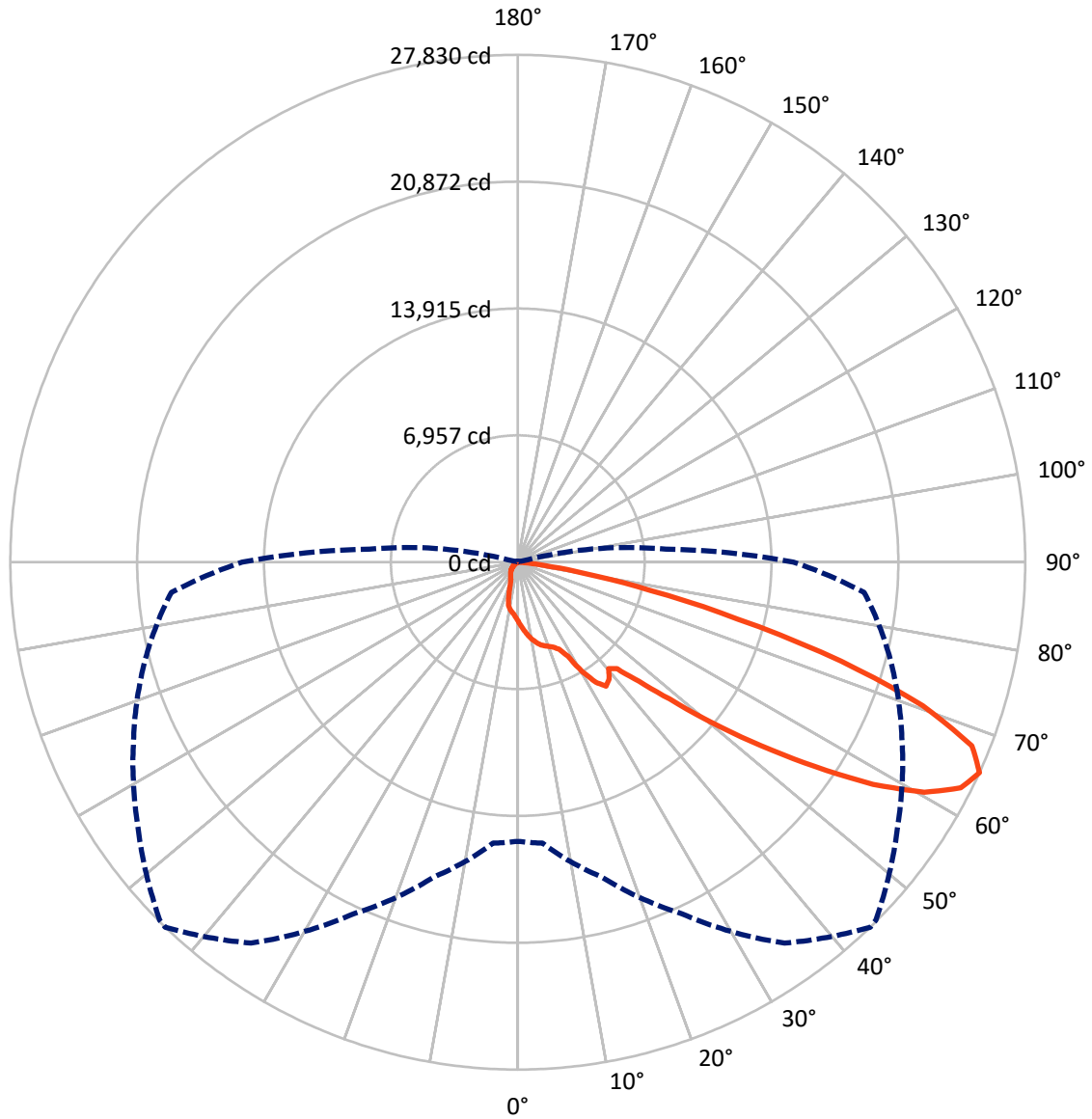
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - N/A

REPORT NUMBER: P459497
CATALOG NUMBER: GALN-SA9B-735-U-T4W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P459497

CATALOG NUMBER: GALN-SA9B-735-U-T4W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3202.8	0.0	3202.8
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	31559.2	0.0	31559.2
	% Fixture	90.8	0.0	90.8
Total	Lumens	34762.0	0.0	34762.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.8	0.9
10°-20°	968.5	2.8
20°-30°	1642.2	4.7
30°-40°	2730.4	7.9
40°-50°	4767.3	13.7
50°-60°	9313.6	26.8
60°-70°	10806.0	31.1
70°-80°	3935.0	11.3
80°-90°	277.3	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°	34762.0	100.0
0°-180°	34762.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459497

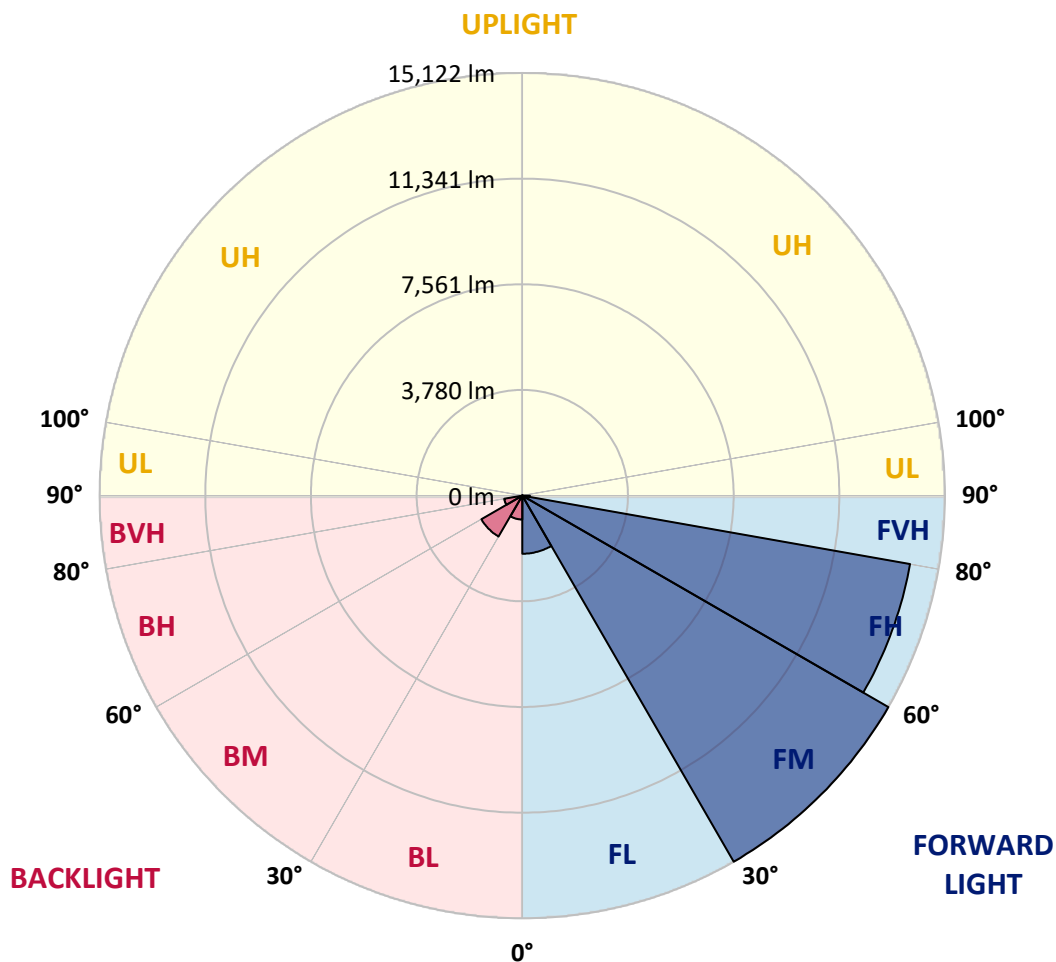
CATALOG NUMBER: GALN-SA9B-735-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2079.1	6.0			
FM	(30°-60°)	15121.5	43.5			
FH	(60°-80°)	14085.1	40.5			G5
FVH	(80°-90°)	273.5	0.8			G3/500
BL	(0°-30°)	853.3	2.5	B2/1000		
BM	(30°-60°)	1689.8	4.9	B2/2500		
BH	(60°-80°)	655.9	1.9	B2/1000		G2/1000
BVH	(80°-90°)	3.8	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





REPORT NUMBER: P459497

CATALOG NUMBER: GALN-SA9B-735-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3
2.5°	3641.7	3625.8	3617.8	3575.3	3543.4	3503.6	3503.6	3453.1	3394.7	3330.9	3272.5
5°	4048.1	4021.6	3987.0	3949.8	3875.5	3769.2	3769.2	3663.0	3540.8	3431.9	3312.3
7.5°	4438.6	4414.7	4356.2	4284.5	4162.3	4050.8	4042.8	3888.7	3742.6	3578.0	3408.0
10°	4781.2	4762.6	4712.2	4574.1	4446.6	4300.5	4297.8	4125.1	3955.1	3753.3	3543.4
12.5°	5020.3	5023.0	4956.6	4823.7	4659.1	4520.9	4510.3	4340.3	4162.3	3944.5	3686.9
15°	5190.3	5190.3	5121.2	4972.5	4823.7	4701.6	4690.9	4542.2	4358.9	4122.5	3843.6
17.5°	5238.1	5254.1	5179.7	5046.9	4927.3	4821.1	4818.4	4693.6	4547.5	4319.1	4003.0
20°	5219.5	5235.5	5177.0	5073.4	4991.1	4930.0	4922.0	4871.6	4736.1	4520.9	4173.0
22.5°	5179.7	5195.6	5153.1	5092.0	5052.2	5070.8	5057.5	5100.0	5028.3	4768.0	4374.8
25°	5187.6	5203.6	5171.7	5137.2	5171.7	5285.9	5320.5	5503.7	5440.0	5081.4	4592.6
27.5°	5437.3	5469.2	5424.1	5440.0	5562.2	5827.8	5894.2	6210.3	5928.7	5479.8	4932.6
30°	5992.5	5971.2	5886.2	5963.3	6388.3	6951.4	6932.8	6882.3	6441.4	5939.4	5336.4
32.5°	6497.2	6478.6	6473.3	6805.3	7575.6	7849.2	7835.9	7347.2	6900.9	6465.3	5734.8
35°	6701.7	6630.0	6614.0	7418.9	8707.2	8345.9	8263.6	7538.4	7458.7	7039.0	6141.2
37.5°	7318.0	7267.5	7020.5	7519.8	8255.6	8136.1	8072.3	7867.8	8053.7	7546.4	6600.8
40°	8587.6	8446.9	8223.7	7735.0	7615.5	7665.9	7729.7	8290.1	8757.6	8239.7	7214.4
42.5°	10165.4	10133.6	9719.2	8808.1	7913.0	7982.0	8064.4	9172.0	9769.7	9283.6	8215.8
45°	12059.3	12104.5	11506.9	10431.1	9257.0	9315.4	9435.0	10473.6	11140.3	10906.5	9790.9
47.5°	13780.6	13746.1	13544.2	12425.9	11342.2	11212.0	11405.9	12144.3	13036.8	13074.0	11745.9
50°	15512.5	15695.7	15395.6	14957.3	14152.5	13878.9	13807.2	14168.4	15528.4	15350.4	14094.0
52.5°	18001.4	18097.0	17533.9	17422.3	17605.6	16718.4	16646.7	16734.3	17950.9	17340.0	15852.5
55°	19565.9	19510.1	19300.3	20171.5	20896.7	19789.0	19698.7	19345.4	19961.7	18745.1	17544.5
57.5°	20060.0	20139.6	20628.4	22203.5	23919.5	22979.2	22814.5	21810.4	21412.0	20054.6	19101.1
60°	19839.5	19985.6	21040.1	23382.9	25762.9	25622.1	25481.4	23794.6	22453.2	21149.0	20192.8
62.5°	18269.6	18474.2	20160.9	23173.1	26387.1	27266.3	27091.0	25032.4	23146.5	21680.3	20384.0
65°	15310.6	15462.0	17884.5	21268.5	25499.9	27829.5	27765.7	25420.3	23255.4	21194.2	19074.5
67.5°	10914.5	11429.8	13674.3	17924.3	22875.6	26867.9	26976.8	24955.4	22232.8	19093.1	15796.7
70°	6861.1	7211.7	8821.4	12832.3	18338.7	23571.5	23930.1	22827.8	19295.0	14882.9	10574.5
72.5°	3272.5	3532.8	4680.3	8122.8	12943.9	18545.9	18830.1	18739.8	14920.1	9376.5	5455.9
75°	1458.3	1556.6	2233.9	4146.4	8356.5	12465.8	13201.5	13323.7	9323.4	4587.3	2122.3
77.5°	743.7	746.4	1046.6	2008.1	4173.0	7437.5	7583.6	8011.2	5054.8	2021.4	738.4
80°	395.8	422.3	555.2	948.3	2164.8	3663.0	3644.4	4005.6	2241.9	990.8	247.0
82.5°	178.0	196.6	313.4	496.7	1057.2	1389.2	1498.1	1638.9	961.6	632.2	108.9
85°	53.1	63.7	154.1	249.7	382.5	401.1	448.9	579.1	544.5	448.9	55.8
87.5°	8.0	8.0	63.7	69.1	55.8	71.7	74.4	82.3	175.3	164.7	29.2
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: P459497

CATALOG NUMBER: GALN-SA9B-735-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3	3235.3
2.5°	3240.6	3222.0	3155.6	3099.8	3052.0	3022.8	2988.3	2967.0	2956.4	2948.4	2951.1
5°	3253.9	3208.7	3094.5	3004.2	2935.1	2860.8	2810.3	2781.1	2767.8	2746.6	2746.6
7.5°	3328.3	3256.6	3097.2	2959.1	2839.5	2738.6	2643.0	2608.4	2584.5	2579.2	2573.9
10°	3434.5	3344.2	3126.4	2935.1	2765.2	2627.0	2491.6	2372.0	2279.1	2223.3	2215.3
12.5°	3567.3	3437.2	3171.6	2919.2	2701.4	2457.0	2098.4	1856.7	1694.7	1644.2	1652.2
15°	3689.5	3548.7	3216.7	2905.9	2584.5	2037.3	1630.9	1354.7	1272.3	1264.4	1267.0
17.5°	3835.6	3668.3	3269.8	2887.3	2263.1	1556.6	1211.2	1136.9	1152.8	1179.4	1176.7
20°	3987.0	3795.8	3333.6	2775.8	1806.2	1171.4	1070.5	1078.4	1102.3	1126.2	1131.6
22.5°	4149.1	3941.9	3408.0	2507.5	1378.6	1020.0	1014.7	1025.3	1049.2	1075.8	1081.1
25°	4372.2	4125.1	3463.7	2156.9	1043.9	943.0	953.6	972.2	993.4	1022.7	1028.0
27.5°	4659.1	4372.2	3493.0	1700.0	903.1	873.9	876.6	903.1	929.7	956.2	956.2
30°	5030.9	4667.0	3434.5	1285.6	834.1	807.5	796.9	812.8	847.3	873.9	876.6
32.5°	5363.0	4945.9	3280.5	982.8	783.6	746.4	719.8	722.5	735.8	751.7	754.4
35°	5695.0	5216.9	3017.5	826.1	730.5	688.0	648.1	626.9	616.2	608.3	616.2
37.5°	6120.0	5554.2	2666.9	751.7	685.3	632.2	576.4	531.2	494.1	470.2	475.5
40°	6667.2	6021.7	2252.5	703.9	642.8	579.1	504.7	446.2	382.5	361.2	350.6
42.5°	7570.3	6730.9	1816.9	664.1	600.3	523.3	430.3	350.6	292.2	270.9	276.2
45°	8996.7	7626.1	1399.8	621.6	557.8	462.2	361.2	276.2	228.4	217.8	223.1
47.5°	10887.9	8784.2	1078.4	573.7	504.7	395.8	284.2	217.8	188.6	185.9	183.3
50°	12667.6	9862.6	900.5	520.6	440.9	329.4	233.7	183.3	164.7	162.0	162.0
52.5°	14277.3	10635.6	733.1	459.5	371.9	270.9	196.6	162.0	146.1	138.1	138.1
55°	15709.0	11140.3	595.0	385.2	292.2	215.2	170.0	146.1	127.5	116.9	114.2
57.5°	16790.1	11201.4	446.2	308.1	217.8	167.3	146.1	127.5	106.2	93.0	87.7
60°	17252.3	10672.8	329.4	233.7	162.0	132.8	116.9	103.6	79.7	66.4	63.7
62.5°	16787.5	9644.8	244.4	178.0	124.8	98.3	82.3	77.0	55.8	39.8	37.2
65°	15122.0	8160.0	193.9	135.5	93.0	71.7	53.1	50.5	34.5	18.6	15.9
67.5°	12115.1	6390.9	154.1	100.9	66.4	47.8	34.5	31.9	18.6	5.3	5.3
70°	7878.4	4085.3	124.8	74.4	42.5	31.9	21.2	15.9	10.6	2.7	0.0
72.5°	3896.7	1909.8	100.9	58.4	29.2	15.9	8.0	5.3	8.0	0.0	0.0
75°	1511.4	680.0	74.4	39.8	15.9	8.0	5.3	0.0	2.7	0.0	0.0
77.5°	502.0	225.8	45.2	21.2	10.6	5.3	0.0	0.0	0.0	0.0	0.0
80°	185.9	87.7	23.9	13.3	5.3	2.7	0.0	0.0	0.0	0.0	0.0
82.5°	74.4	34.5	15.9	10.6	5.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	37.2	21.2	10.6	8.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.6	15.9	10.6	8.0	5.3	2.7	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)