

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: P458938

Luminaire Tested: **GALN-SA4C-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458938
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20743 lumens
Efficiency: N/A
Efficacy: 97.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

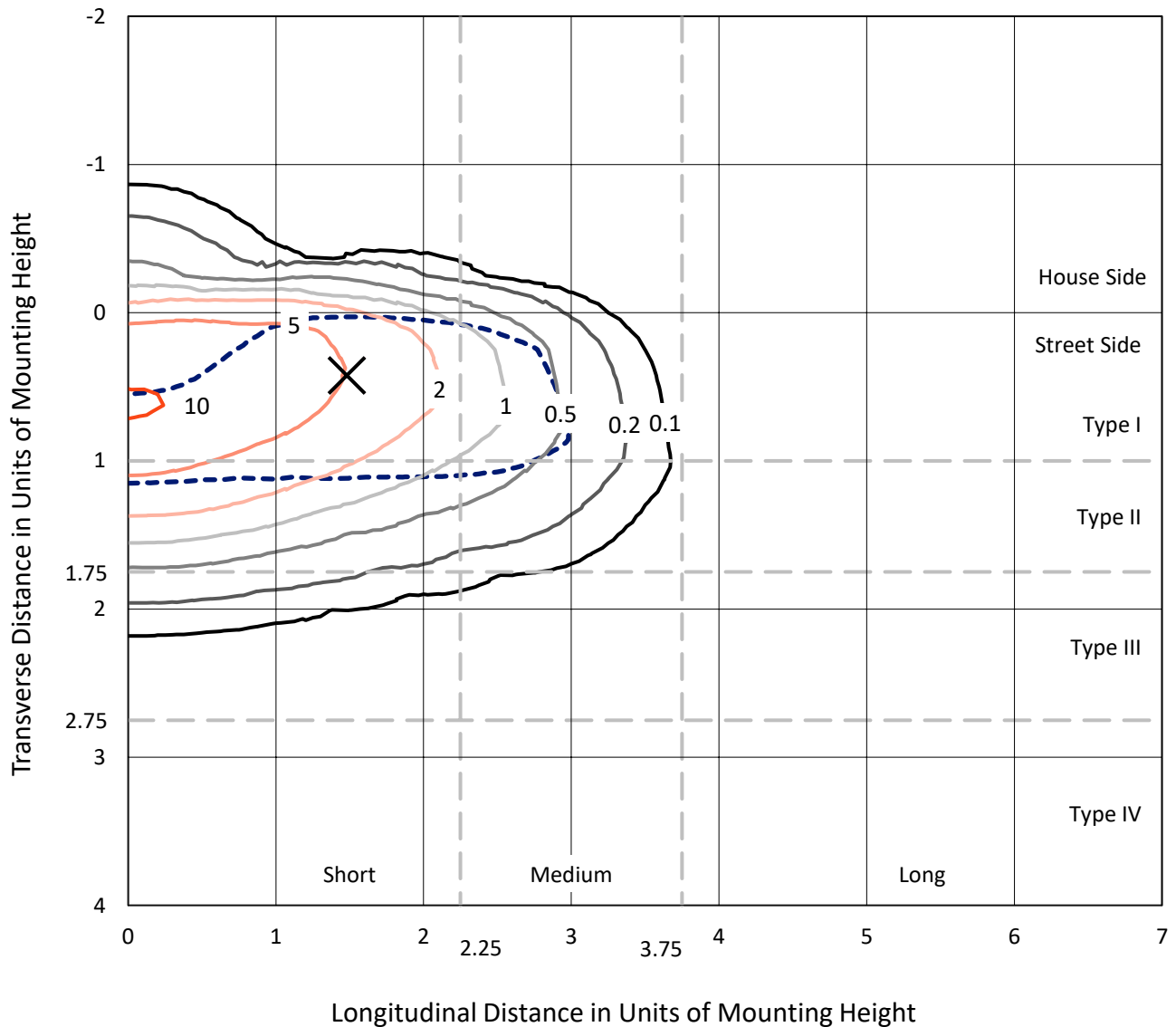
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458938
 CATALOG NUMBER: GALN-SA4C-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

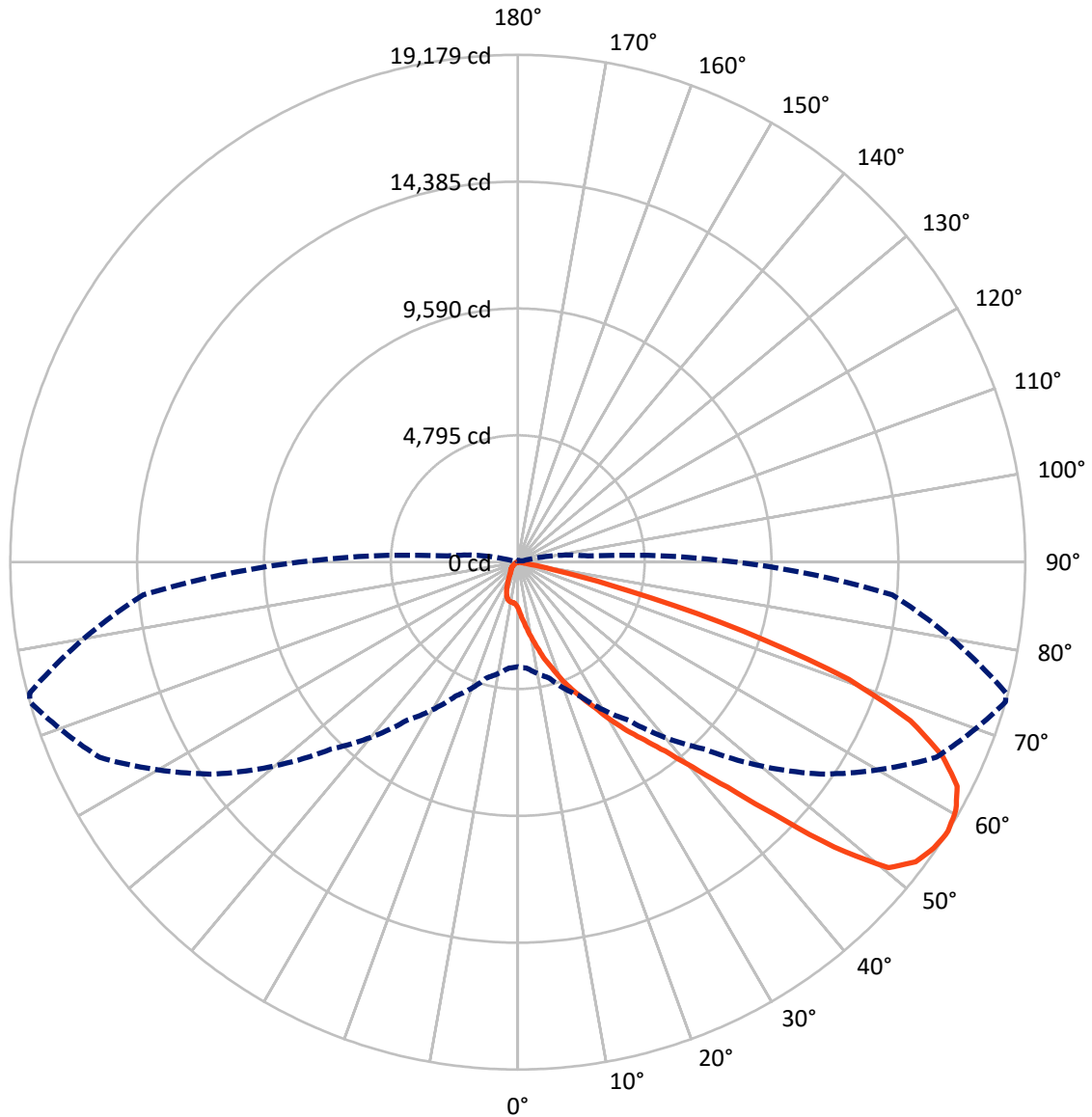
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Short - N/A

REPORT NUMBER: P458938
CATALOG NUMBER: GALN-SA4C-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P458938

CATALOG NUMBER: GALN-SA4C-735-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1196.4	0.0	1196.4
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	19546.6	0.0	19546.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	20743.0	0.0	20743.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.0
10°-20°	826.5	4.0
20°-30°	1768.5	8.5
30°-40°	3250.5	15.7
40°-50°	4983.0	24.0
50°-60°	5271.3	25.4
60°-70°	3442.3	16.6
70°-80°	940.6	4.5
80°-90°	50.6	0.2
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°	20743.0	100.0
0°-180°	20743.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458938

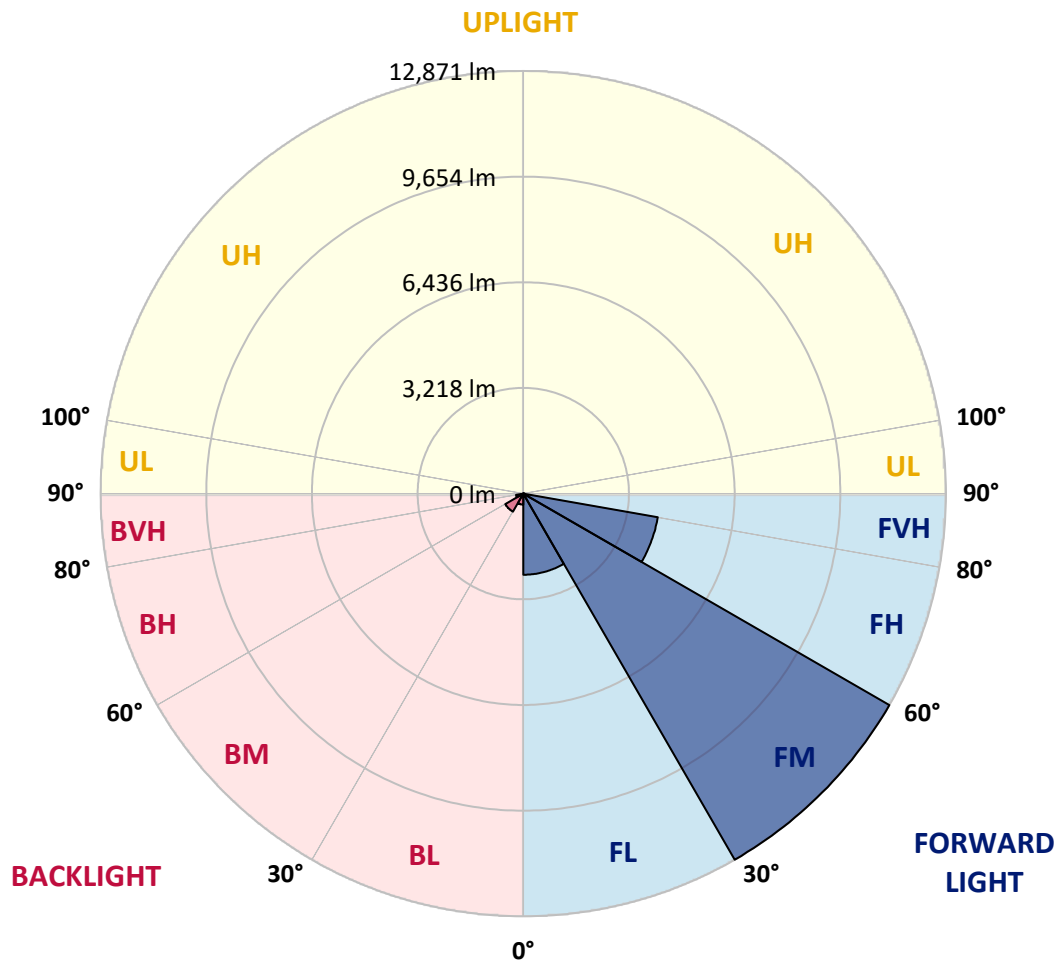
CATALOG NUMBER: GALN-SA4C-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2470.5	11.9			
FM (30°-60°)	12871.4	62.1			
FH (60°-80°)	4158.3	20.0			G2/5000
FVH (80°-90°)	46.5	0.2			G1/100
BL (0°-30°)	334.2	1.6	B1/500		
BM (30°-60°)	633.4	3.1	B1/1000		
BH (60°-80°)	224.6	1.1	B1/500		G1/500
BVH (80°-90°)	4.2	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-G2

Type II Short





REPORT NUMBER: P458938

CATALOG NUMBER: GALN-SA4C-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2
2.5°	2542.1	2519.2	2473.3	2457.6	2390.3	2285.7	2194.1	2070.9	1973.5	1963.5	1846.0
5°	3404.2	3352.7	3331.2	3228.1	3066.2	2914.4	2653.8	2456.1	2228.4	2211.2	1974.9
7.5°	4234.9	4163.3	4141.8	4044.4	3855.4	3616.2	3278.2	2918.7	2557.8	2524.9	2148.2
10°	4836.4	4846.4	4807.7	4743.3	4590.0	4346.6	3929.8	3438.6	2924.5	2882.9	2343.0
12.5°	5267.5	5266.0	5273.2	5271.7	5190.1	5005.4	4567.1	4001.4	3328.3	3246.7	2566.4
15°	5548.2	5552.4	5573.9	5648.4	5657.0	5542.4	5177.2	4539.9	3796.6	3694.9	2808.4
17.5°	5831.7	5861.8	5896.2	5966.3	6029.4	5983.5	5725.7	5101.3	4220.5	4144.6	3067.7
20°	6300.0	6341.6	6321.5	6364.5	6397.4	6401.7	6202.6	5619.8	4734.7	4607.2	3364.1
22.5°	7049.0	7047.6	6996.1	6918.7	6854.3	6851.4	6671.0	6152.5	5201.6	5078.4	3662.0
25°	7995.7	8000.0	7899.7	7679.2	7518.8	7322.6	7114.9	6619.4	5701.4	5549.6	3975.7
27.5°	9081.3	9054.1	8902.3	8598.6	8280.7	7945.6	7646.3	7162.2	6231.3	6105.3	4335.1
30°	10056.6	10046.5	9869.0	9498.0	9079.8	8743.3	8309.3	7842.5	6917.3	6762.6	4737.6
32.5°	10964.5	10978.9	10732.5	10348.7	9944.9	9556.7	9098.5	8492.7	7590.4	7371.3	5175.8
35°	11673.5	11687.8	11432.9	11113.5	10698.2	10375.9	9939.1	9185.8	8254.9	8070.2	5679.9
37.5°	12051.6	12070.2	11922.7	11682.1	11422.8	11261.0	10854.3	10078.0	9062.7	8950.9	6275.7
40°	12123.2	12144.6	12080.2	12015.7	12001.4	12117.4	11998.6	11129.2	10182.6	10007.9	7163.6
42.5°	11908.3	11937.0	11965.6	12108.8	12401.0	12826.3	13240.2	12555.7	11624.8	11389.9	8249.2
45°	11344.1	11341.2	11454.3	11825.3	12479.8	13387.7	14537.8	14341.6	13589.7	13310.4	9783.0
47.5°	10378.8	10364.5	10609.4	11137.8	12157.5	13490.9	15596.1	16509.8	16097.4	15839.6	11431.4
50°	8908.0	8978.2	9363.4	10101.0	11357.0	13178.7	15922.7	17932.0	18155.4	17881.8	12763.3
52.5°	7185.1	7182.2	7786.6	8787.7	10171.1	12491.2	15694.9	18189.8	18824.2	18615.1	13419.3
55°	5317.6	5354.8	5983.5	6993.2	8631.6	11236.7	14951.7	17924.8	19079.1	18931.6	13851.8
57°	3955.6	4021.5	4525.6	5594.0	7291.1	9995.0	13962.0	17450.8	19179.4	19099.2	14211.2
57.5°	3692.1	3694.9	4186.2	5157.2	6898.7	9518.1	13678.5	17253.1	19176.5	19132.1	14270.0
60°	2272.8	2344.4	2683.9	3485.9	5049.8	7428.6	11778.0	16117.4	19027.6	19092.0	14520.6
62.5°	1360.5	1390.6	1611.2	2101.0	3255.3	5422.1	9638.4	14663.8	18639.4	18835.7	14503.4
65°	875.0	882.2	982.5	1271.8	2035.1	3664.9	7427.1	12743.3	17635.5	17996.4	13936.3
67.5°	676.0	687.4	727.5	834.9	1180.1	2282.8	5253.1	10693.9	16011.4	16476.9	12561.4
70°	600.1	605.8	620.1	654.5	780.5	1288.9	3268.2	8353.7	13277.5	13409.2	9830.3
72.5°	489.8	505.5	549.9	561.4	618.7	804.9	1818.8	5606.9	8920.9	8953.8	5499.5
75°	379.5	382.4	448.3	481.2	521.3	554.2	812.0	2827.1	4285.0	4055.9	2119.6
77.5°	283.6	296.5	326.5	368.1	425.3	396.7	363.8	1065.5	1330.5	1306.1	615.8
80°	181.9	189.0	227.7	276.4	330.8	259.2	204.8	312.2	292.2	300.8	147.5
82.5°	91.7	93.1	146.1	224.8	210.5	130.3	128.9	127.5	108.8	107.4	68.7
85°	10.0	21.5	94.5	128.9	94.5	43.0	60.2	58.7	57.3	58.7	40.1
87.5°	1.4	1.4	15.8	18.6	12.9	14.3	17.2	18.6	22.9	21.5	17.2
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: P458938

CATALOG NUMBER: GALN-SA4C-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2
2.5°	1788.8	1731.5	1625.5	1523.8	1447.9	1399.2	1336.2	1313.3	1280.3	1276.0	1260.3
5°	1866.1	1757.2	1572.5	1426.4	1309.0	1220.2	1142.9	1078.4	1026.9	1015.4	1021.1
7.5°	1976.4	1814.5	1556.7	1357.7	1194.4	1042.6	919.4	843.5	789.1	769.1	771.9
10°	2101.0	1890.4	1553.9	1284.6	1035.4	849.3	714.6	647.3	615.8	604.4	591.5
12.5°	2248.5	1977.8	1546.7	1171.5	860.7	677.4	581.5	541.4	511.3	502.7	502.7
15°	2414.6	2070.9	1512.4	1031.1	698.9	560.0	495.5	464.0	454.0	445.4	445.4
17.5°	2587.9	2162.5	1440.7	857.9	580.0	479.8	439.7	421.1	406.7	396.7	396.7
20°	2785.5	2252.8	1326.2	704.6	489.8	428.2	396.7	375.2	363.8	355.2	352.3
22.5°	2973.1	2325.8	1180.1	578.6	426.8	385.2	356.6	333.7	322.2	317.9	317.9
25°	3167.9	2370.2	1003.9	478.3	389.5	349.4	317.9	299.3	289.3	286.4	285.0
27.5°	3357.0	2396.0	849.3	418.2	355.2	316.5	286.4	272.1	262.1	259.2	260.7
30°	3586.1	2400.3	698.9	375.2	325.1	285.0	257.8	244.9	239.2	236.3	234.9
32.5°	3818.1	2394.6	587.2	349.4	296.5	257.8	234.9	224.8	220.6	216.3	216.3
35°	4078.8	2364.5	499.8	323.7	269.2	234.9	214.8	206.2	200.5	196.2	194.8
37.5°	4402.4	2348.7	449.7	295.0	244.9	213.4	194.8	186.2	181.9	176.2	174.7
40°	4912.3	2418.9	433.9	269.2	220.6	193.3	176.2	166.1	160.4	154.7	153.2
42.5°	5548.2	2542.1	408.2	243.5	199.1	174.7	157.5	146.1	136.1	128.9	126.0
45°	6371.6	2703.9	368.1	216.3	180.5	154.7	138.9	124.6	111.7	106.0	104.5
47.5°	7235.2	2860.0	332.3	194.8	160.4	137.5	120.3	104.5	93.1	88.8	87.4
50°	7765.1	2891.5	309.3	170.4	140.4	118.9	101.7	87.4	80.2	75.9	75.9
52.5°	8007.2	2841.4	277.8	148.9	121.7	104.5	87.4	75.9	71.6	68.7	67.3
55°	8176.2	2764.1	236.3	128.9	104.5	88.8	77.3	68.7	63.0	60.2	58.7
57°	8275.0	2659.5	204.8	113.1	90.2	77.3	68.7	61.6	55.9	50.1	50.1
57.5°	8279.3	2619.4	196.2	111.7	85.9	74.5	67.3	60.2	53.0	47.3	45.8
60°	8151.8	2344.4	157.5	94.5	68.7	63.0	55.9	47.3	37.2	31.5	30.1
62.5°	7742.2	1995.0	130.3	80.2	55.9	48.7	40.1	35.8	25.8	18.6	18.6
65°	7122.1	1618.3	111.7	64.4	45.8	35.8	27.2	25.8	15.8	8.6	7.2
67.5°	6225.6	1260.3	94.5	53.0	38.7	25.8	18.6	17.2	8.6	2.9	0.0
70°	4743.3	859.3	78.8	43.0	28.6	18.6	12.9	10.0	5.7	1.4	0.0
72.5°	2734.0	472.6	65.9	32.9	21.5	14.3	10.0	5.7	5.7	0.0	0.0
75°	976.7	203.4	50.1	24.3	17.2	11.5	7.2	2.9	4.3	1.4	0.0
77.5°	310.8	108.8	32.9	18.6	14.3	8.6	5.7	2.9	2.9	1.4	0.0
80°	91.7	57.3	20.1	15.8	10.0	7.2	4.3	1.4	2.9	1.4	0.0
82.5°	50.1	28.6	15.8	11.5	10.0	5.7	4.3	1.4	1.4	1.4	0.0
85°	25.8	17.2	12.9	11.5	10.0	5.7	4.3	1.4	0.0	1.4	1.4
87.5°	14.3	12.9	12.9	11.5	10.0	7.2	4.3	1.4	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)