

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: P458735

Luminaire Tested: **GALN-SA2D-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458735
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-SA2D-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA 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: 11603 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

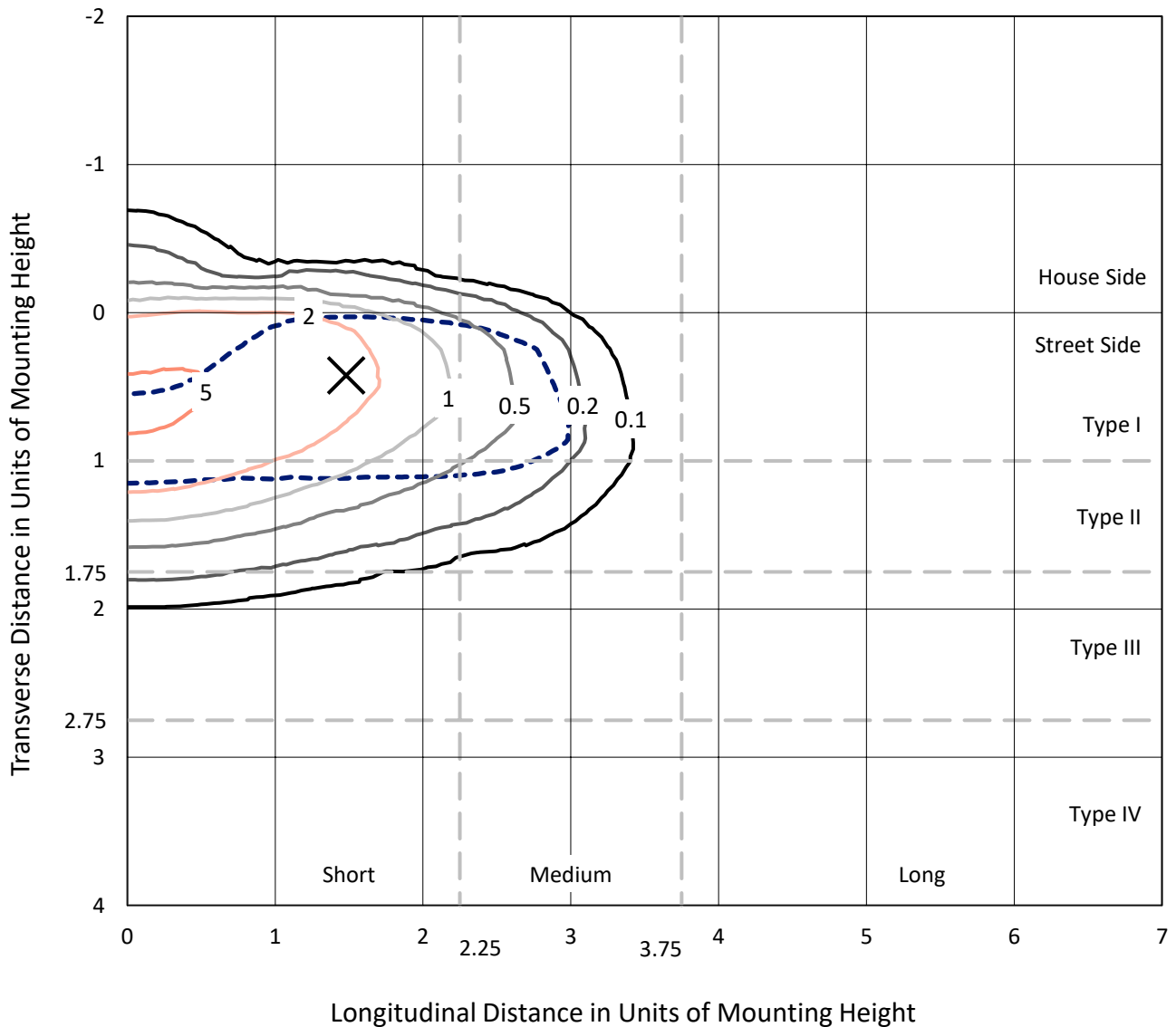
Input Watts (W): 125
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458735
 CATALOG NUMBER: GALN-SA2D-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

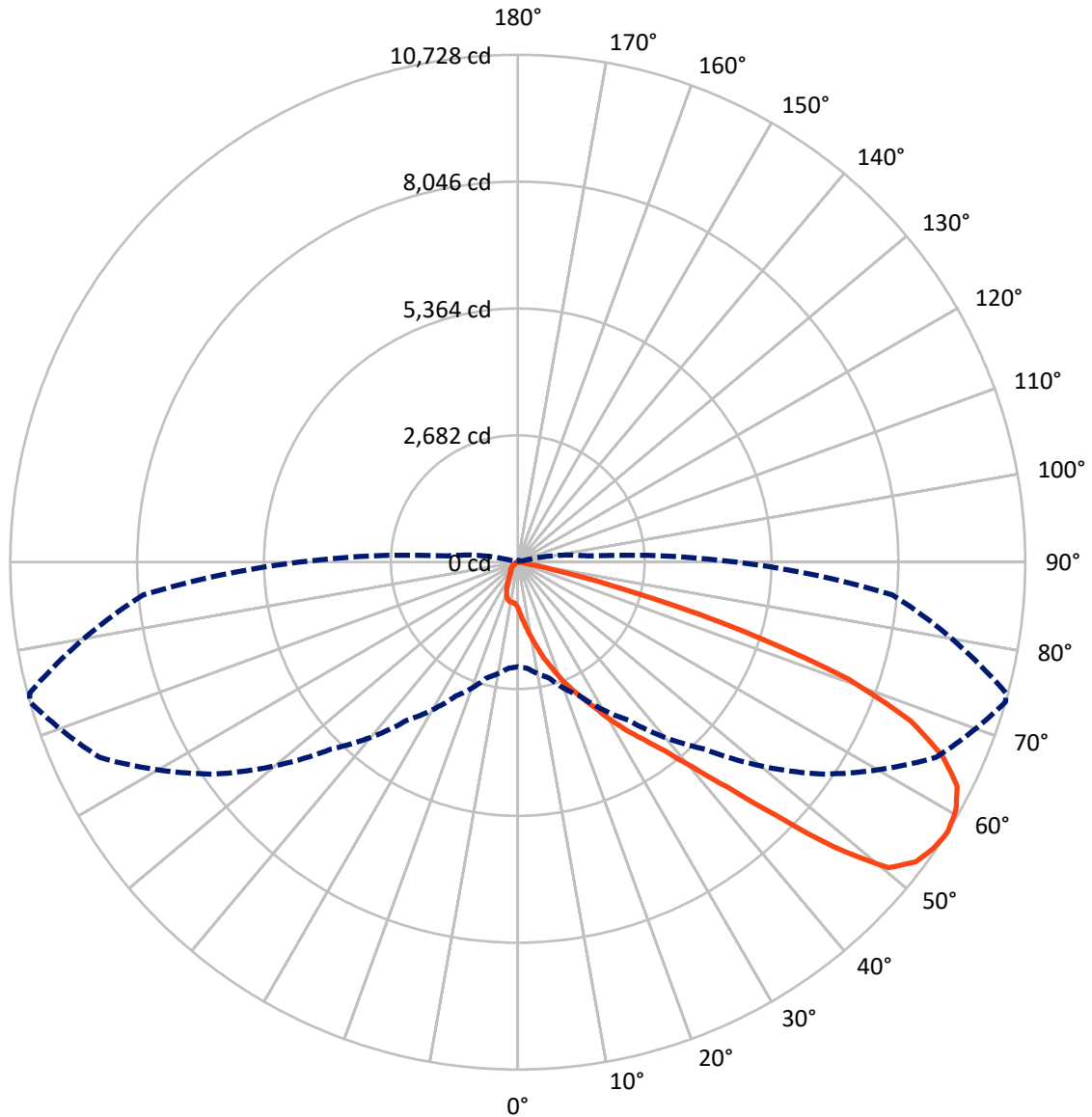
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

REPORT NUMBER: P458735
CATALOG NUMBER: GALN-SA2D-735-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P458735

CATALOG NUMBER: GALN-SA2D-735-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	669.2	0.0	669.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	10933.8	0.0	10933.8
	% Fixture	94.2	0.0	94.2
Total	Lumens	11603.0	0.0	11603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.3	1.0
10°-20°	462.3	4.0
20°-30°	989.2	8.5
30°-40°	1818.2	15.7
40°-50°	2787.3	24.0
50°-60°	2948.6	25.4
60°-70°	1925.5	16.6
70°-80°	526.1	4.5
80°-90°	28.3	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°	11603.0	100.0
0°-180°	11603.0	100.0

Coefficient of Utilization

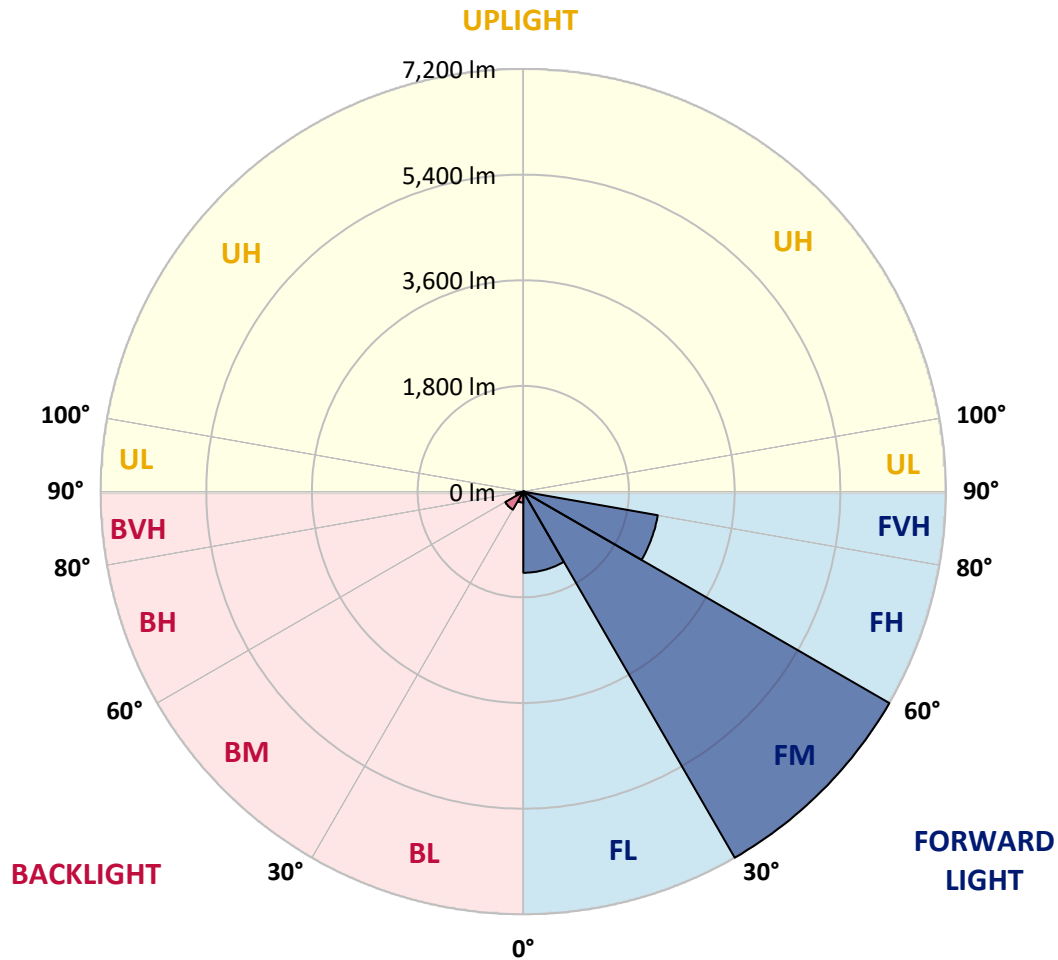


REPORT NUMBER: P458735
 CATALOG NUMBER: GALN-SA2D-735-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1381.9	11.9			
FM (30°-60°)	7199.9	62.1			
FH (60°-80°)	2326.0	20.0			G2/5000
FVH (80°-90°)	26.0	0.2			G1/100
BL (0°-30°)	186.9	1.6	B1/500		
BM (30°-60°)	354.3	3.1	B1/1000		
BH (60°-80°)	125.6	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	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: P458735

CATALOG NUMBER: GALN-SA2D-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1422.0	1409.1	1383.5	1374.7	1337.0	1278.6	1227.3	1158.4	1103.9	1098.3	1032.6
5°	1904.2	1875.4	1863.4	1805.7	1715.2	1630.2	1484.4	1373.9	1246.5	1236.9	1104.7
7.5°	2368.9	2328.8	2316.8	2262.3	2156.6	2022.8	1833.7	1632.6	1430.8	1412.3	1201.7
10°	2705.3	2710.9	2689.3	2653.2	2567.5	2431.3	2198.2	1923.4	1635.8	1612.6	1310.6
12.5°	2946.5	2945.7	2949.7	2948.9	2903.2	2799.8	2554.7	2238.3	1861.8	1816.1	1435.6
15°	3103.5	3105.9	3117.9	3159.5	3164.4	3100.3	2896.0	2539.5	2123.7	2066.8	1571.0
17.5°	3262.1	3278.9	3298.1	3337.4	3372.6	3347.0	3202.8	2853.5	2360.8	2318.4	1716.0
20°	3524.0	3547.3	3536.1	3560.1	3578.5	3580.9	3469.6	3143.5	2648.4	2577.1	1881.8
22.5°	3943.0	3942.2	3913.4	3870.1	3834.1	3832.5	3731.5	3441.5	2909.6	2840.7	2048.4
25°	4472.5	4475.0	4418.9	4295.5	4205.8	4096.0	3979.9	3702.7	3189.2	3104.3	2223.9
27.5°	5079.8	5064.6	4979.6	4809.8	4632.0	4444.5	4277.1	4006.3	3485.6	3415.1	2424.9
30°	5625.3	5619.7	5520.4	5312.9	5079.0	4890.7	4648.0	4386.8	3869.3	3782.8	2650.0
32.5°	6133.2	6141.2	6003.5	5788.8	5562.8	5345.8	5089.4	4750.5	4245.8	4123.3	2895.2
35°	6529.8	6537.8	6395.2	6216.5	5984.2	5804.0	5559.6	5138.3	4617.5	4514.2	3177.2
37.5°	6741.3	6751.7	6669.2	6534.6	6389.6	6299.1	6071.5	5637.4	5069.4	5006.9	3510.4
40°	6781.3	6793.3	6757.3	6721.2	6713.2	6778.1	6711.6	6225.4	5695.8	5598.1	4007.1
42.5°	6661.2	6677.2	6693.2	6773.3	6936.7	7174.7	7406.2	7023.3	6502.5	6371.2	4614.3
45°	6345.5	6343.9	6407.2	6614.7	6980.8	7488.7	8132.0	8022.2	7601.7	7445.4	5472.3
47.5°	5805.6	5797.6	5934.6	6230.2	6800.6	7546.4	8724.0	9235.1	9004.4	8860.2	6394.4
50°	4982.9	5022.1	5237.6	5650.2	6352.7	7371.7	8906.6	10030.6	10155.6	10002.6	7139.4
52.5°	4019.1	4017.5	4355.6	4915.6	5689.4	6987.2	8779.3	10174.8	10529.7	10412.7	7506.3
55°	2974.5	2995.3	3347.0	3911.8	4828.2	6285.4	8363.5	10026.6	10672.3	10589.8	7748.3
57°	2212.6	2249.5	2531.5	3129.1	4078.4	5590.9	7809.9	9761.4	10728.4	10683.5	7949.3
57.5°	2065.2	2066.8	2341.6	2884.8	3858.9	5324.1	7651.3	9650.9	10726.7	10701.9	7982.2
60°	1271.3	1311.4	1501.3	1949.9	2824.7	4155.3	6588.3	9015.6	10643.4	10679.5	8122.4
62.5°	761.0	777.9	901.2	1175.2	1820.9	3033.0	5391.4	8202.5	10426.3	10536.1	8112.8
65°	489.5	493.5	549.6	711.4	1138.4	2050.0	4154.5	7128.2	9864.8	10066.6	7795.5
67.5°	378.1	384.5	407.0	467.0	660.1	1277.0	2938.4	5981.8	8956.3	9216.7	7026.5
70°	335.7	338.9	346.9	366.1	436.6	721.0	1828.1	4672.8	7427.0	7500.7	5498.8
72.5°	274.0	282.8	307.6	314.0	346.1	450.2	1017.4	3136.3	4990.1	5008.5	3076.2
75°	212.3	213.9	250.7	269.2	291.6	310.0	454.2	1581.4	2396.9	2268.7	1185.6
77.5°	158.6	165.8	182.7	205.9	237.9	221.9	203.5	596.0	744.2	730.6	344.5
80°	101.7	105.7	127.4	154.6	185.1	145.0	114.6	174.6	163.4	168.2	82.5
82.5°	51.3	52.1	81.7	125.8	117.8	72.9	72.1	71.3	60.9	60.1	38.5
85°	5.6	12.0	52.9	72.1	52.9	24.0	33.6	32.8	32.0	32.8	22.4
87.5°	0.8	0.8	8.8	10.4	7.2	8.0	9.6	10.4	12.8	12.0	9.6
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: P458735

CATALOG NUMBER: GALN-SA2D-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7	971.7
2.5°	1000.6	968.5	909.3	852.4	809.9	782.7	747.4	734.6	716.2	713.8	705.0
5°	1043.8	983.0	879.6	797.9	732.2	682.5	639.3	603.2	574.4	568.0	571.2
7.5°	1105.5	1015.0	870.8	759.4	668.1	583.2	514.3	471.8	441.4	430.2	431.8
10°	1175.2	1057.5	869.2	718.6	579.2	475.1	399.7	362.1	344.5	338.1	330.9
12.5°	1257.7	1106.3	865.2	655.3	481.5	378.9	325.2	302.8	286.0	281.2	281.2
15°	1350.7	1158.4	846.0	576.8	390.9	313.2	277.2	259.6	253.9	249.1	249.1
17.5°	1447.6	1209.7	805.9	479.9	324.4	268.4	245.9	235.5	227.5	221.9	221.9
20°	1558.1	1260.1	741.8	394.1	274.0	239.5	221.9	209.9	203.5	198.7	197.1
22.5°	1663.1	1301.0	660.1	323.6	238.7	215.5	199.5	186.7	180.2	177.8	177.8
25°	1772.0	1325.8	561.6	267.6	217.9	195.5	177.8	167.4	161.8	160.2	159.4
27.5°	1877.8	1340.2	475.1	233.9	198.7	177.0	160.2	152.2	146.6	145.0	145.8
30°	2006.0	1342.6	390.9	209.9	181.9	159.4	144.2	137.0	133.8	132.2	131.4
32.5°	2135.7	1339.4	328.5	195.5	165.8	144.2	131.4	125.8	123.4	121.0	121.0
35°	2281.5	1322.6	279.6	181.0	150.6	131.4	120.2	115.4	112.2	109.8	108.9
37.5°	2462.6	1313.8	251.5	165.0	137.0	119.4	108.9	104.1	101.7	98.5	97.7
40°	2747.8	1353.1	242.7	150.6	123.4	108.1	98.5	92.9	89.7	86.5	85.7
42.5°	3103.5	1422.0	228.3	136.2	111.4	97.7	88.1	81.7	76.1	72.1	70.5
45°	3564.1	1512.5	205.9	121.0	100.9	86.5	77.7	69.7	62.5	59.3	58.5
47.5°	4047.2	1599.8	185.9	108.9	89.7	76.9	67.3	58.5	52.1	49.7	48.9
50°	4343.6	1617.4	173.0	95.3	78.5	66.5	56.9	48.9	44.9	42.5	42.5
52.5°	4479.0	1589.4	155.4	83.3	68.1	58.5	48.9	42.5	40.1	38.5	37.7
55°	4573.5	1546.1	132.2	72.1	58.5	49.7	43.3	38.5	35.2	33.6	32.8
57°	4628.8	1487.6	114.6	63.3	50.5	43.3	38.5	34.4	31.2	28.0	28.0
57.5°	4631.2	1465.2	109.8	62.5	48.1	41.7	37.7	33.6	29.6	26.4	25.6
60°	4559.9	1311.4	88.1	52.9	38.5	35.2	31.2	26.4	20.8	17.6	16.8
62.5°	4330.8	1115.9	72.9	44.9	31.2	27.2	22.4	20.0	14.4	10.4	10.4
65°	3983.9	905.2	62.5	36.0	25.6	20.0	15.2	14.4	8.8	4.8	4.0
67.5°	3482.4	705.0	52.9	29.6	21.6	14.4	10.4	9.6	4.8	1.6	0.0
70°	2653.2	480.7	44.1	24.0	16.0	10.4	7.2	5.6	3.2	0.8	0.0
72.5°	1529.3	264.4	36.9	18.4	12.0	8.0	5.6	3.2	3.2	0.0	0.0
75°	546.4	113.8	28.0	13.6	9.6	6.4	4.0	1.6	2.4	0.8	0.0
77.5°	173.8	60.9	18.4	10.4	8.0	4.8	3.2	1.6	1.6	0.8	0.0
80°	51.3	32.0	11.2	8.8	5.6	4.0	2.4	0.8	1.6	0.8	0.0
82.5°	28.0	16.0	8.8	6.4	5.6	3.2	2.4	0.8	0.8	0.8	0.0
85°	14.4	9.6	7.2	6.4	5.6	3.2	2.4	0.8	0.0	0.8	0.8
87.5°	8.0	7.2	7.2	6.4	5.6	4.0	2.4	0.8	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)