

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: P459023

Luminaire Tested: **GALN-SA5B-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19844 lumens
Efficiency: N/A
Efficacy: 97.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

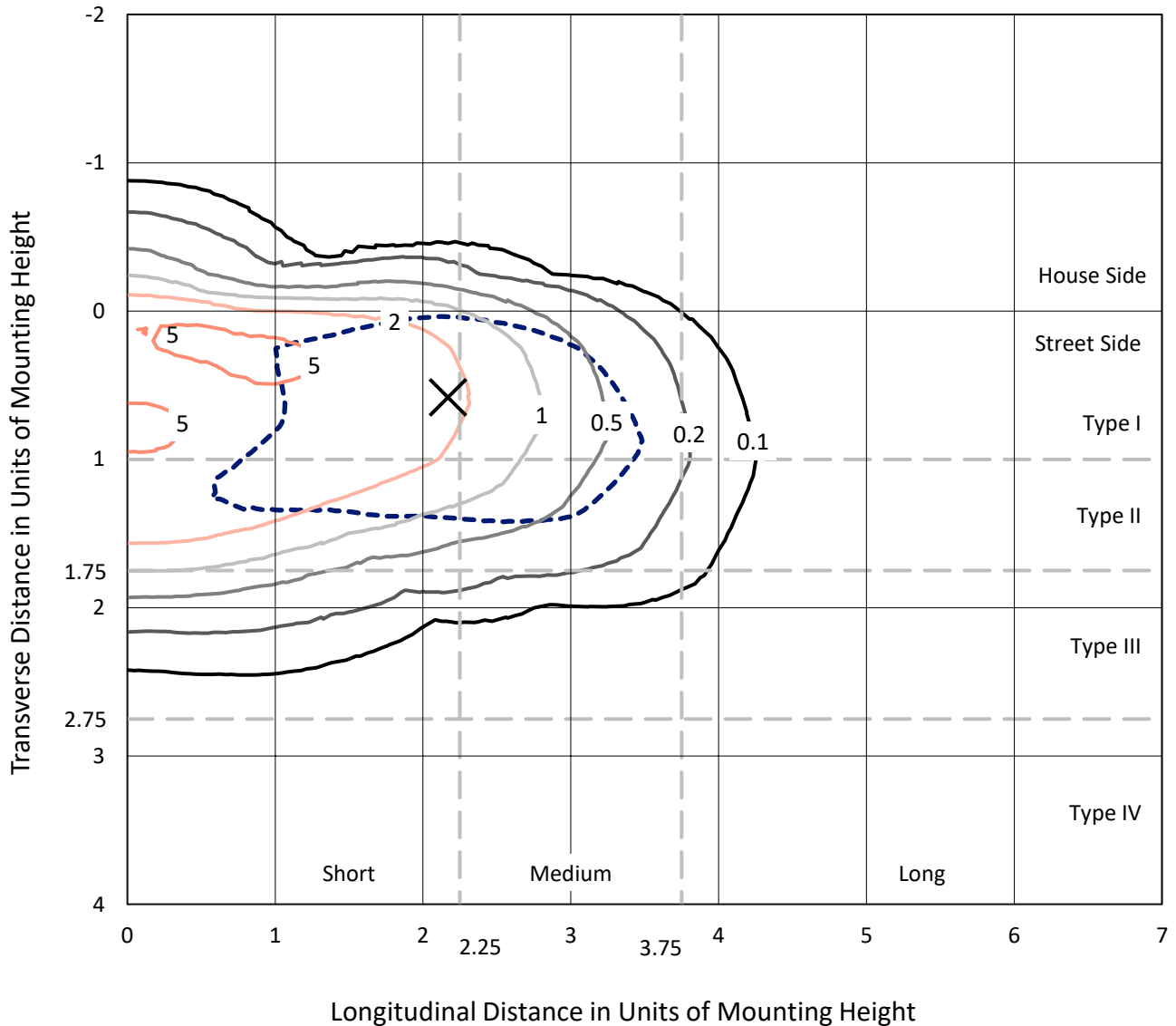
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459023
 CATALOG NUMBER: GALN-SA5B-735-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

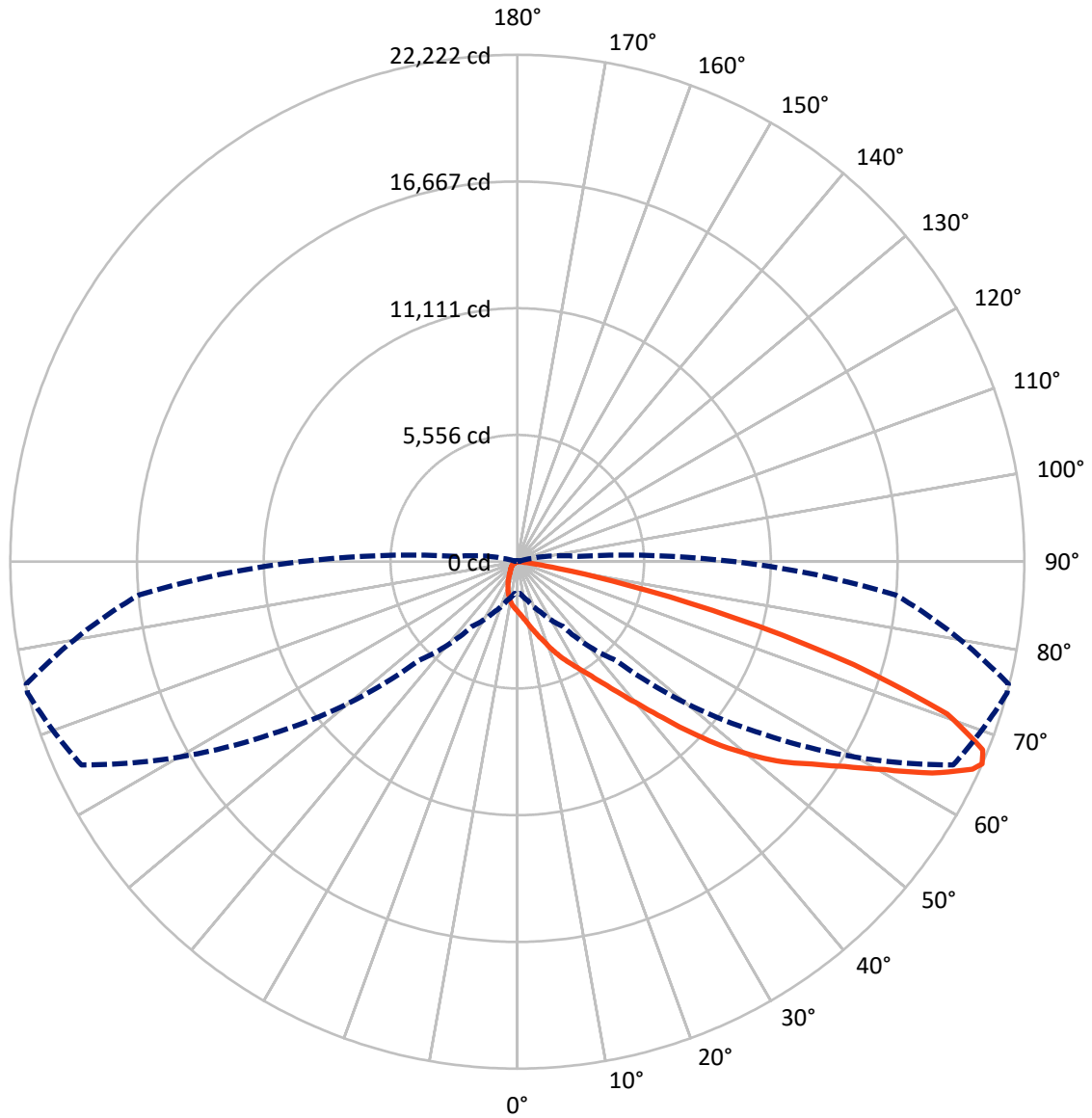
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P459023
CATALOG NUMBER: GALN-SA5B-735-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P459023

CATALOG NUMBER: GALN-SA5B-735-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1225.1	0.0	1225.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	18618.9	0.0	18618.9
	% Fixture	93.8	0.0	93.8
Total	Lumens	19844.0	0.0	19844.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.3	1.1
10°-20°	616.0	3.1
20°-30°	1063.7	5.4
30°-40°	1918.7	9.7
40°-50°	3466.3	17.5
50°-60°	5403.9	27.2
60°-70°	5133.5	25.9
70°-80°	1923.9	9.7
80°-90°	108.5	0.5
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°	19844.0	100.0
0°-180°	19844.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459023

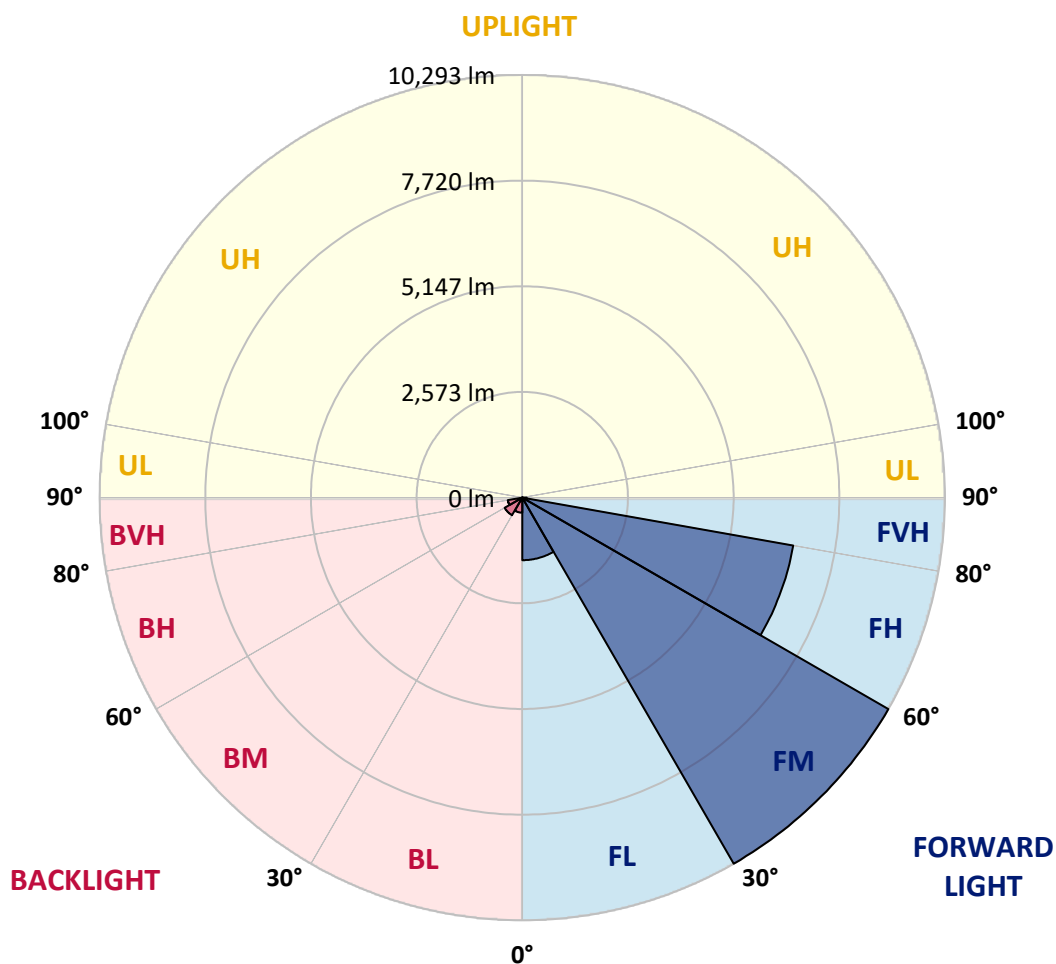
CATALOG NUMBER: GALN-SA5B-735-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1523.2	7.7			
FM (30°-60°)	10293.1	51.9			
FH (60°-80°)	6699.7	33.8			G3/7500
FVH (80°-90°)	102.9	0.5			G2/225
BL (0°-30°)	365.9	1.8	B1/500		
BM (30°-60°)	495.9	2.5	B1/1000		
BH (60°-80°)	357.7	1.8	B1/500		G1/500
BVH (80°-90°)	5.6	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-G3

Type II Short





REPORT NUMBER: P459023

CATALOG NUMBER: GALN-SA5B-735-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1
2.5°	2592.7	2560.4	2570.7	2556.0	2522.3	2472.4	2428.4	2365.3	2302.2	2291.9	2221.5
5°	2934.6	2925.8	2914.1	2871.5	2848.0	2771.7	2680.8	2572.2	2441.6	2418.1	2290.5
7.5°	3167.9	3163.5	3169.4	3147.4	3126.8	3057.9	2961.0	2812.8	2610.3	2597.1	2384.4
10°	3244.2	3255.9	3277.9	3313.2	3345.4	3323.4	3250.1	3065.2	2829.0	2790.8	2491.5
12.5°	3200.2	3213.4	3266.2	3360.1	3464.3	3524.5	3495.1	3360.1	3060.8	3030.0	2611.8
15°	3087.2	3103.3	3178.2	3323.4	3509.8	3680.0	3753.4	3656.5	3330.8	3280.9	2757.1
17.5°	2919.9	2943.4	3050.5	3242.7	3498.0	3791.5	3998.4	3966.1	3618.4	3571.4	2915.5
20°	2793.7	2811.3	2902.3	3122.4	3448.2	3853.1	4231.7	4322.7	3973.4	3892.7	3101.9
22.5°	2877.4	2883.2	2914.1	3046.1	3358.7	3869.3	4437.1	4693.9	4350.5	4278.6	3295.6
25°	3286.8	3228.1	3197.2	3167.9	3339.6	3854.6	4623.5	5081.3	4726.2	4649.9	3487.8
27.5°	3932.4	3906.0	3750.4	3542.1	3502.4	3873.7	4746.7	5448.1	5079.8	4997.6	3675.6
30°	4635.2	4589.7	4494.3	4189.1	3882.5	4008.7	4836.2	5804.6	5498.0	5389.4	3847.3
32.5°	5280.8	5310.2	5167.8	4853.8	4498.7	4296.3	4952.1	6193.5	5977.8	5842.8	4046.8
35°	6033.5	6092.2	5873.6	5572.8	5157.6	4815.7	5178.1	6632.2	6586.7	6416.5	4354.9
37.5°	6798.0	6833.2	6699.7	6277.1	5903.0	5476.0	5603.6	7173.6	7336.5	7191.2	4723.2
40°	7440.7	7489.1	7390.8	7015.2	6616.1	6240.4	6221.4	7763.5	8228.6	8079.0	5272.0
42.5°	7932.2	7968.9	7971.8	7706.3	7346.8	7176.6	7009.3	8516.2	9346.7	9173.6	5908.8
45°	8552.9	8605.7	8574.9	8394.4	8125.9	8095.1	8008.5	9425.9	10684.9	10466.3	6734.9
47.5°	9512.5	9547.7	9471.4	9258.7	8985.7	9034.2	8982.8	10445.7	12049.5	11861.7	7590.3
50°	10178.7	10237.4	10345.9	10431.0	10233.0	10053.9	9901.3	11398.0	13345.1	13176.4	8464.9
52.5°	10171.3	10268.2	10611.5	11040.0	11472.8	11418.5	10979.8	12450.0	14582.0	14373.7	9286.5
55°	9486.1	9673.9	10178.7	10938.7	12137.5	12734.7	12535.1	13667.9	15650.2	15509.4	10238.8
57.5°	8071.6	8186.1	8887.4	9949.8	11766.3	13353.9	14337.0	15318.6	16931.2	16865.2	11717.9
60°	5429.0	5480.4	6382.8	7696.0	10017.3	12736.2	15657.6	17315.6	18508.5	18476.2	13444.9
62.5°	3110.7	3132.7	3787.1	4894.9	7128.1	10793.5	15769.1	19779.2	20399.9	20417.5	15443.3
65°	1674.2	1685.9	2214.2	2873.0	4337.3	7693.1	14180.0	21129.1	21928.8	21962.6	16681.7
66°	1445.3	1389.5	1762.2	2448.9	3451.1	6123.0	13174.9	21080.7	22222.3	22185.6	16637.7
67.5°	1099.0	1148.9	1407.1	1882.5	2557.5	4353.5	10877.1	20143.1	21999.2	21884.8	15961.3
70°	786.5	807.0	1002.2	1342.6	1741.7	2388.8	6950.6	16730.2	19994.9	19840.8	13905.6
72.5°	507.7	529.7	710.2	971.4	1258.9	1304.4	3891.3	12087.6	15415.5	15393.5	10472.1
75°	362.4	383.0	469.5	695.5	946.4	807.0	1873.7	8146.5	9800.1	9734.1	6478.1
77.5°	262.6	272.9	314.0	454.9	676.4	578.1	868.6	4350.5	4878.8	5109.1	2862.7
80°	151.1	159.9	218.6	277.3	457.8	394.7	415.2	1746.1	1800.4	1713.8	895.1
82.5°	74.8	85.1	130.6	189.3	286.1	265.6	190.7	525.3	554.6	540.0	226.0
85°	17.6	22.0	73.4	124.7	139.4	118.9	92.4	154.1	190.7	186.3	86.6
87.5°	1.5	2.9	26.4	22.0	23.5	39.6	32.3	39.6	61.6	57.2	30.8
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: P459023
 CATALOG NUMBER: GALN-SA5B-735-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1	2170.1
2.5°	2189.2	2161.3	2080.6	2001.4	1935.4	1866.4	1803.3	1766.6	1752.0	1735.8	1743.2
5°	2220.0	2152.5	1989.7	1848.8	1710.9	1593.5	1499.6	1439.4	1410.1	1405.7	1398.3
7.5°	2261.1	2145.2	1892.8	1672.7	1492.2	1361.7	1254.5	1168.0	1141.6	1118.1	1099.0
10°	2311.0	2132.0	1772.5	1487.8	1295.6	1131.3	990.4	887.7	834.9	820.2	830.5
12.5°	2363.8	2107.0	1646.3	1317.6	1096.1	886.2	755.7	704.3	689.6	683.8	685.2
15°	2416.6	2076.2	1514.3	1153.3	873.0	707.2	647.1	633.9	628.0	625.1	622.1
17.5°	2465.1	2026.3	1366.1	993.4	707.2	604.5	582.5	570.8	559.0	554.6	547.3
20°	2522.3	1969.1	1232.5	814.4	598.7	547.3	520.9	498.9	481.3	469.5	468.1
22.5°	2576.6	1895.8	1093.1	675.0	545.8	491.5	449.0	425.5	405.0	390.3	394.7
25°	2605.9	1806.2	968.4	588.4	497.4	435.8	388.8	359.5	337.5	330.1	328.7
27.5°	2605.9	1696.2	846.6	538.5	453.4	385.9	337.5	309.6	294.9	284.7	286.1
30°	2585.4	1574.4	733.7	500.3	415.2	341.9	296.4	271.5	259.7	252.4	250.9
32.5°	2569.2	1458.5	636.8	463.7	375.6	303.7	264.1	245.0	233.3	226.0	226.0
35°	2594.2	1358.7	562.0	427.0	338.9	274.4	239.2	221.6	209.8	204.0	202.5
37.5°	2660.2	1267.7	504.8	387.4	305.2	249.4	221.6	201.0	189.3	181.9	179.0
40°	2823.1	1216.4	462.2	350.7	272.9	228.9	201.0	181.9	167.3	159.9	158.5
42.5°	3084.3	1217.9	421.1	316.9	248.0	211.3	183.4	161.4	145.3	137.9	136.5
45°	3477.5	1273.6	388.8	284.7	226.0	192.2	164.3	140.9	126.2	118.9	118.9
47.5°	3948.5	1382.2	361.0	256.8	205.4	174.6	145.3	121.8	107.1	101.2	101.2
50°	4459.1	1523.1	333.1	227.4	187.8	155.5	124.7	105.6	93.9	89.5	89.5
52.5°	4980.0	1693.3	305.2	204.0	168.7	135.0	107.1	93.9	83.6	80.7	79.2
55°	5663.8	1910.4	275.9	179.0	148.2	115.9	95.4	82.2	70.4	66.0	64.6
57.5°	6715.8	2237.6	243.6	157.0	121.8	96.8	82.2	69.0	55.8	48.4	47.0
60°	7985.0	2636.7	209.8	137.9	98.3	79.2	66.0	52.8	41.1	32.3	30.8
62.5°	9173.6	2890.6	177.5	115.9	77.8	60.2	47.0	39.6	29.3	20.5	19.1
65°	9698.9	2805.5	146.7	93.9	61.6	42.6	30.8	27.9	17.6	8.8	7.3
66°	9524.2	2679.3	135.0	85.1	55.8	36.7	26.4	23.5	13.2	4.4	4.4
67.5°	9009.2	2381.4	117.4	73.4	48.4	29.3	20.5	17.6	7.3	1.5	0.0
70°	7719.5	1926.6	92.4	54.3	35.2	20.5	11.7	8.8	4.4	0.0	0.0
72.5°	5929.4	1435.0	73.4	41.1	24.9	11.7	5.9	2.9	4.4	0.0	0.0
75°	3633.0	820.2	57.2	30.8	16.1	7.3	4.4	0.0	4.4	1.5	0.0
77.5°	1612.6	368.3	38.1	20.5	11.7	5.9	2.9	0.0	2.9	1.5	0.0
80°	407.9	120.3	22.0	14.7	8.8	4.4	1.5	0.0	2.9	2.9	1.5
82.5°	111.5	44.0	16.1	11.7	7.3	4.4	1.5	0.0	2.9	2.9	2.9
85°	44.0	20.5	14.7	11.7	8.8	4.4	1.5	0.0	2.9	2.9	2.9
87.5°	20.5	14.7	14.7	13.2	10.3	4.4	1.5	0.0	2.9	1.5	2.9
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)