

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: P454144

Luminaire Tested: **GALN-SA5B-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19603 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

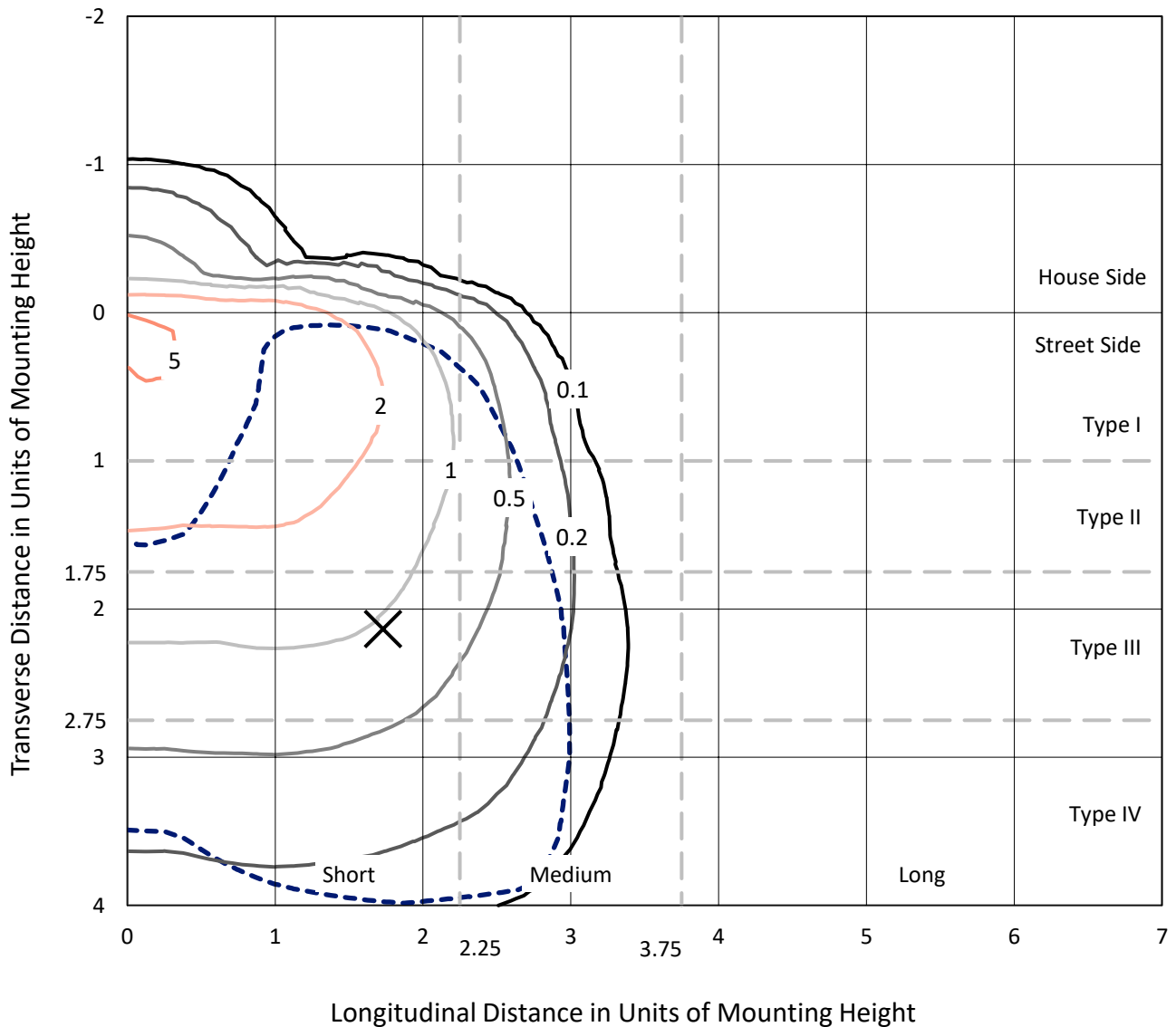
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

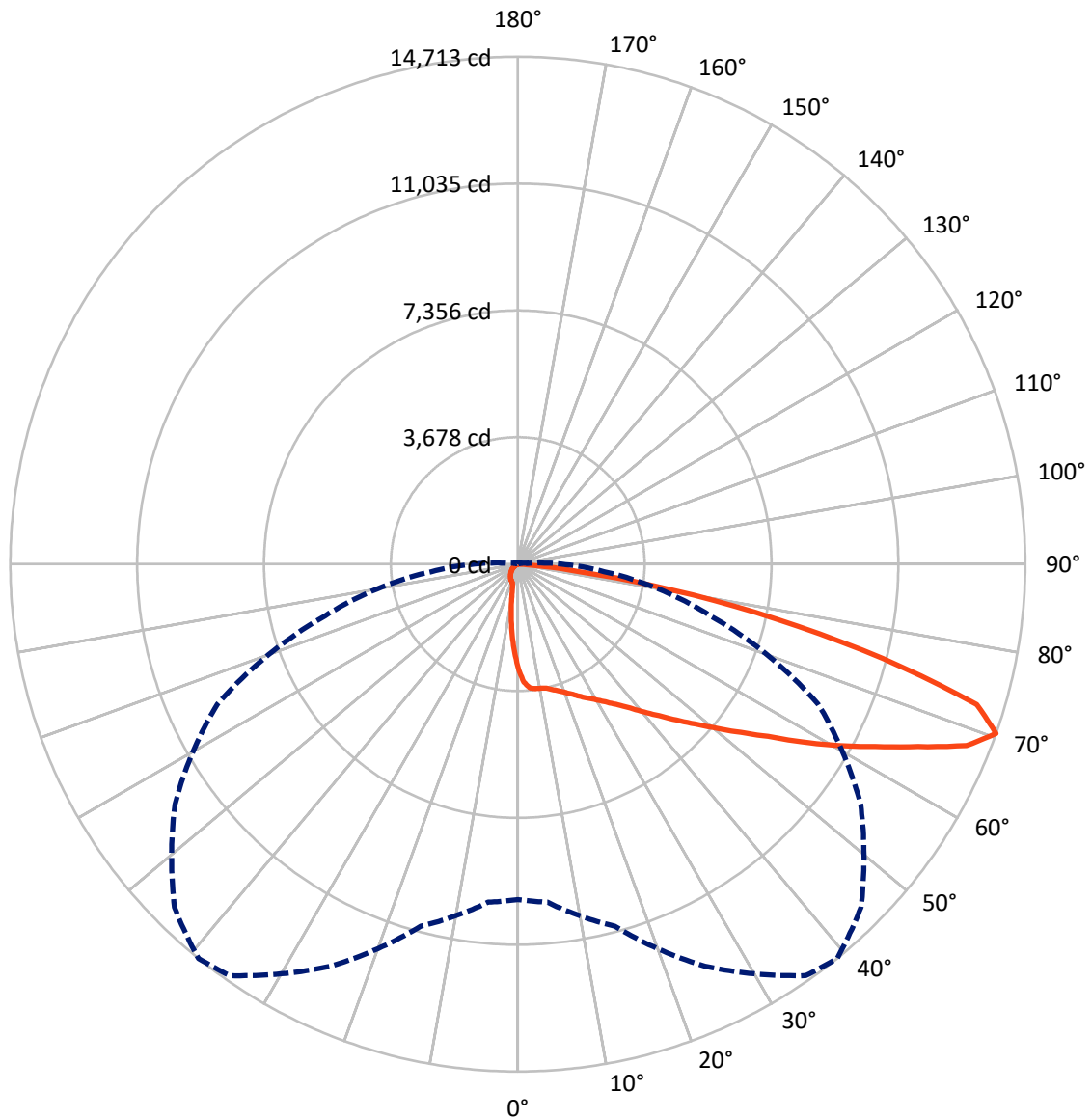
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1278.2	0.0	1278.2
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	18324.8	0.0	18324.8
	% Fixture	93.5	0.0	93.5
Total	Lumens	19603.0	0.0	19603.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	260.9	1.3
10°-20°	678.0	3.5
20°-30°	1135.8	5.8
30°-40°	1761.5	9.0
40°-50°	2791.4	14.2
50°-60°	4091.8	20.9
60°-70°	5244.7	26.8
70°-80°	3295.6	16.8
80°-90°	343.3	1.8
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°	19603.0	100.0
0°-180°	19603.0	100.0

Coefficient of Utilization



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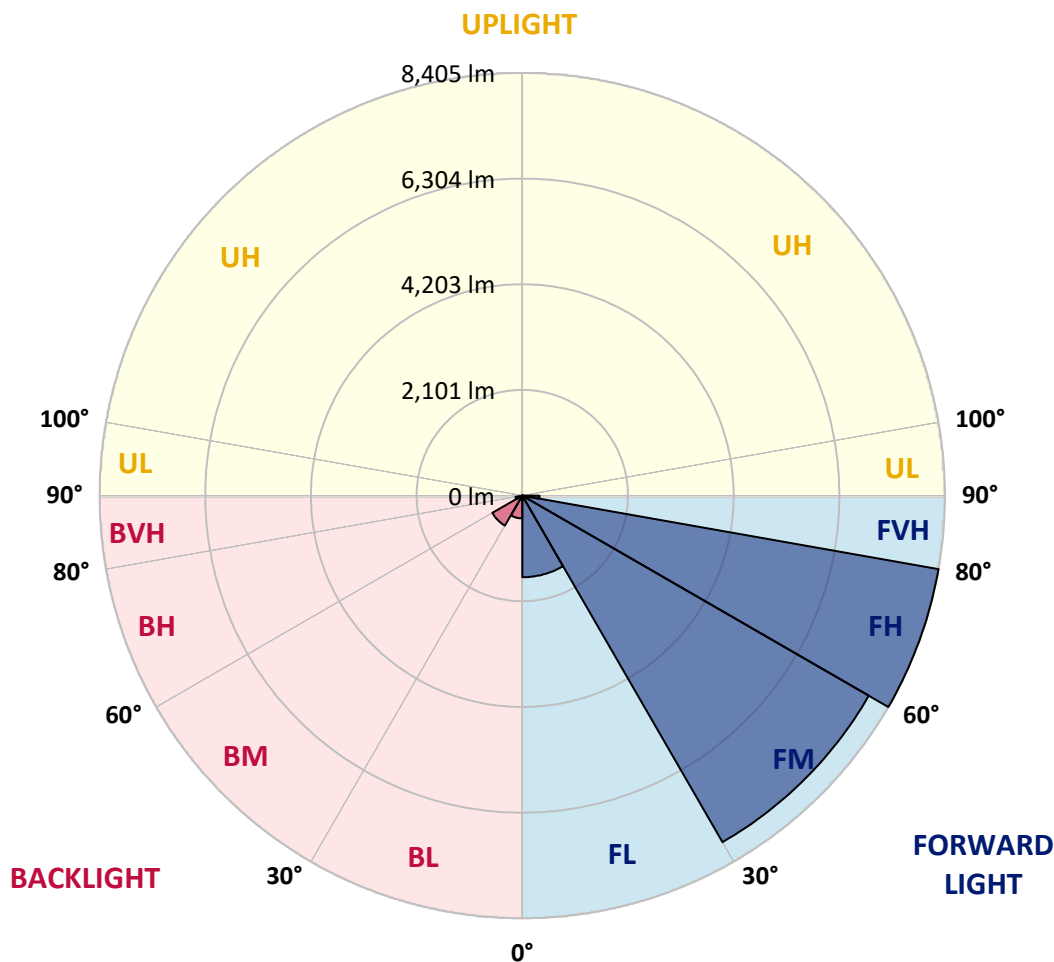
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1622.1	8.3			
FM (30°-60°)	7956.8	40.6			
FH (60°-80°)	8405.1	42.9			G4/12000
FVH (80°-90°)	340.8	1.7			G3/500
BL (0°-30°)	452.6	2.3	B1/500		
BM (30°-60°)	687.9	3.5	B1/1000		
BH (60°-80°)	135.2	0.7	B1/500		G1/500
BVH (80°-90°)	2.5	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7
2.5°	3534.3	3522.4	3506.6	3488.2	3435.5	3426.3	3394.6	3327.5	3247.1	3181.2	3090.4
5°	3701.6	3708.2	3696.3	3663.4	3625.2	3602.8	3563.3	3459.2	3355.1	3222.1	3073.2
7.5°	3739.8	3753.0	3738.5	3706.8	3670.0	3646.3	3614.6	3525.1	3403.9	3252.4	3048.2
10°	3735.8	3751.6	3742.4	3713.4	3683.1	3660.7	3626.5	3555.4	3457.9	3298.5	3056.1
12.5°	3729.2	3750.3	3749.0	3734.5	3709.5	3692.4	3671.3	3608.0	3517.2	3365.7	3099.6
15°	3710.8	3737.1	3760.9	3772.7	3774.0	3774.0	3747.7	3680.5	3593.6	3453.9	3156.2
17.5°	3718.7	3749.0	3808.3	3842.5	3866.2	3863.6	3835.9	3763.5	3667.3	3544.8	3215.5
20°	3767.4	3808.3	3891.3	3959.8	3983.5	3975.6	3938.7	3854.4	3745.0	3622.5	3273.5
22.5°	3887.3	3924.2	4028.3	4108.6	4125.7	4104.7	4052.0	3937.4	3838.6	3706.8	3343.3
25°	4066.5	4109.9	4206.1	4266.7	4266.7	4254.8	4181.1	4046.7	3944.0	3824.1	3434.2
27.5°	4283.8	4320.7	4415.5	4469.6	4437.9	4403.7	4329.9	4167.9	4069.1	3971.6	3543.5
30°	4503.8	4527.5	4627.6	4651.3	4618.4	4574.9	4495.9	4333.9	4246.9	4171.8	3701.6
32.5°	4711.9	4763.3	4846.3	4841.0	4796.2	4775.2	4702.7	4530.1	4481.4	4473.5	3922.9
35°	4920.1	4959.6	5033.4	5051.8	5012.3	5008.3	4955.6	4827.9	4829.2	4880.5	4268.0
37.5°	5099.2	5134.8	5221.7	5262.6	5270.5	5290.2	5269.1	5184.8	5304.7	5445.7	4725.1
40°	5249.4	5299.4	5410.1	5481.2	5562.9	5635.4	5639.3	5657.7	5898.8	6141.2	5321.8
42.5°	5366.6	5436.4	5597.2	5728.9	5915.9	6008.1	6081.9	6183.3	6589.1	6951.3	6025.3
45°	5519.4	5599.8	5800.0	6006.8	6299.3	6450.8	6553.5	6824.9	7400.5	7894.5	6747.1
47.5°	5772.4	5814.5	6018.7	6320.3	6705.0	6921.0	7121.3	7532.2	8271.2	8713.9	7347.8
50°	6097.7	6125.4	6279.5	6698.4	7196.3	7480.9	7845.8	8329.2	9174.9	9393.6	7687.7
52.5°	6457.3	6466.6	6582.5	7114.7	7747.0	8105.3	8513.6	9110.4	9911.3	9878.3	7912.9
55°	6874.9	6861.7	6960.5	7566.5	8399.0	8808.7	9284.2	9910.0	10550.2	10222.1	8042.0
57.5°	7353.1	7317.5	7413.7	8165.9	9234.2	9724.2	10207.7	10600.2	11045.5	10510.6	8103.9
60°	7853.7	7782.5	7897.1	8839.0	10218.2	10683.2	11085.0	11190.4	11567.1	10739.8	7997.2
62.5°	8252.8	8254.1	8467.5	9555.6	11229.9	11636.9	11850.3	11945.2	12016.3	10689.8	7436.1
65°	8875.9	8897.0	9238.1	10550.2	12400.9	12754.0	12900.2	12591.9	12036.1	10068.0	6593.0
67.5°	9518.7	9585.9	10210.3	11920.1	13753.8	14038.3	13850.0	12717.1	11498.6	8649.3	4999.1
70°	9728.2	9838.8	10867.6	12863.3	14565.2	14712.8	14075.2	12133.5	9612.2	5782.9	2516.0
72.5°	8914.1	9093.2	10489.6	12519.5	14047.5	13919.8	12593.3	10176.0	6110.9	2195.9	768.0
75°	6286.1	6365.1	8717.8	10385.5	11298.4	10936.1	9579.3	6560.1	2513.4	616.5	263.5
77.5°	3245.8	3207.6	5184.8	6890.7	8057.8	7682.4	6272.9	3396.0	952.4	256.9	163.3
80°	1678.2	1705.9	2243.3	3610.7	4918.7	4526.2	3344.6	1574.2	507.2	142.3	125.1
82.5°	940.5	882.6	1289.6	1576.8	2300.0	1803.4	1283.0	1114.4	221.3	85.6	118.6
85°	171.2	179.2	707.4	852.3	798.3	507.2	413.6	744.3	64.5	47.4	83.0
87.5°	2.6	2.6	137.0	245.0	155.4	71.1	130.4	106.7	13.2	18.4	14.5
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°	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7	3058.7
2.5°	3044.3	2994.2	2900.7	2808.5	2691.2	2595.1	2530.5	2463.3	2394.8	2400.1	2415.9
5°	2991.6	2904.6	2720.2	2525.2	2338.2	2169.6	2003.6	1854.7	1794.1	1738.8	1741.5
7.5°	2938.9	2816.4	2546.3	2240.7	1957.5	1670.3	1462.2	1290.9	1200.0	1131.5	1111.8
10°	2915.2	2753.1	2386.9	1966.7	1564.9	1251.4	984.0	844.4	736.4	702.1	711.3
12.5°	2925.7	2721.5	2243.3	1719.1	1240.9	872.0	685.0	613.9	590.1	586.2	583.6
15°	2945.5	2699.1	2102.4	1445.1	911.6	648.1	575.7	562.5	559.8	557.2	558.5
17.5°	2971.8	2679.4	1952.2	1188.2	699.5	566.4	545.4	538.8	537.5	537.5	537.5
20°	2998.1	2657.0	1784.9	959.0	583.6	534.8	521.6	517.7	516.4	516.4	515.1
22.5°	3028.4	2637.2	1615.0	753.5	537.5	512.4	500.6	497.9	496.6	495.3	495.3
25°	3071.9	2612.2	1434.5	616.5	508.5	491.3	479.5	476.9	475.5	470.3	471.6
27.5°	3129.9	2593.7	1248.8	532.2	482.1	465.0	457.1	453.1	450.5	446.6	447.9
30°	3208.9	2577.9	1051.2	486.1	451.8	437.3	429.4	426.8	424.2	420.2	420.2
32.5°	3345.9	2584.5	843.1	449.2	424.2	407.0	399.1	396.5	393.9	389.9	389.9
35°	3551.4	2622.7	674.5	417.6	391.2	374.1	366.2	366.2	362.3	357.0	355.7
37.5°	3887.3	2720.2	541.4	387.3	359.6	343.8	334.6	332.0	328.0	320.1	318.8
40°	4283.8	2871.7	455.8	357.0	330.6	314.8	306.9	299.0	288.5	280.6	279.3
42.5°	4781.8	3027.1	395.2	326.7	303.0	288.5	279.3	266.1	250.3	239.7	238.4
45°	5300.8	3169.4	354.4	299.0	276.6	264.8	254.2	233.2	213.4	200.2	198.9
47.5°	5688.0	3195.7	321.4	272.7	254.2	242.4	227.9	201.5	175.2	163.3	159.4
50°	5871.1	3068.0	287.2	246.3	231.8	218.7	200.2	169.9	140.9	126.5	123.8
52.5°	5935.7	2846.7	259.5	222.6	209.4	193.6	171.2	137.0	110.7	96.2	94.8
55°	5909.3	2567.4	234.5	200.2	183.1	164.7	142.3	109.3	81.7	69.8	67.2
57.5°	5771.0	2211.7	209.4	177.8	156.8	138.3	113.3	81.7	55.3	44.8	43.5
60°	5398.2	1727.0	184.4	152.8	133.0	113.3	89.6	58.0	34.2	25.0	25.0
62.5°	4768.6	1281.7	160.7	127.8	112.0	90.9	63.2	36.9	18.4	13.2	11.9
65°	3984.8	945.8	134.4	108.0	93.5	71.1	44.8	22.4	9.2	4.0	2.6
67.5°	2780.8	583.6	112.0	88.3	76.4	51.4	27.7	9.2	4.0	0.0	0.0
70°	1263.3	277.9	85.6	67.2	58.0	36.9	14.5	5.3	2.6	0.0	0.0
72.5°	392.6	146.2	60.6	48.7	39.5	23.7	7.9	4.0	2.6	0.0	0.0
75°	181.8	93.5	38.2	26.3	22.4	11.9	5.3	2.6	1.3	0.0	0.0
77.5°	135.7	72.5	22.4	14.5	11.9	7.9	4.0	2.6	1.3	0.0	0.0
80°	118.6	36.9	13.2	9.2	6.6	5.3	2.6	1.3	0.0	0.0	0.0
82.5°	106.7	18.4	7.9	5.3	4.0	2.6	1.3	1.3	0.0	0.0	0.0
85°	58.0	10.5	5.3	4.0	2.6	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	10.5	5.3	4.0	2.6	2.6	1.3	1.3	1.3	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)