

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: P647878

Luminaire Tested: **GALN-SA4A-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647878  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4A-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8284.1 lumens  
Efficiency: N/A  
Efficacy: 68.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

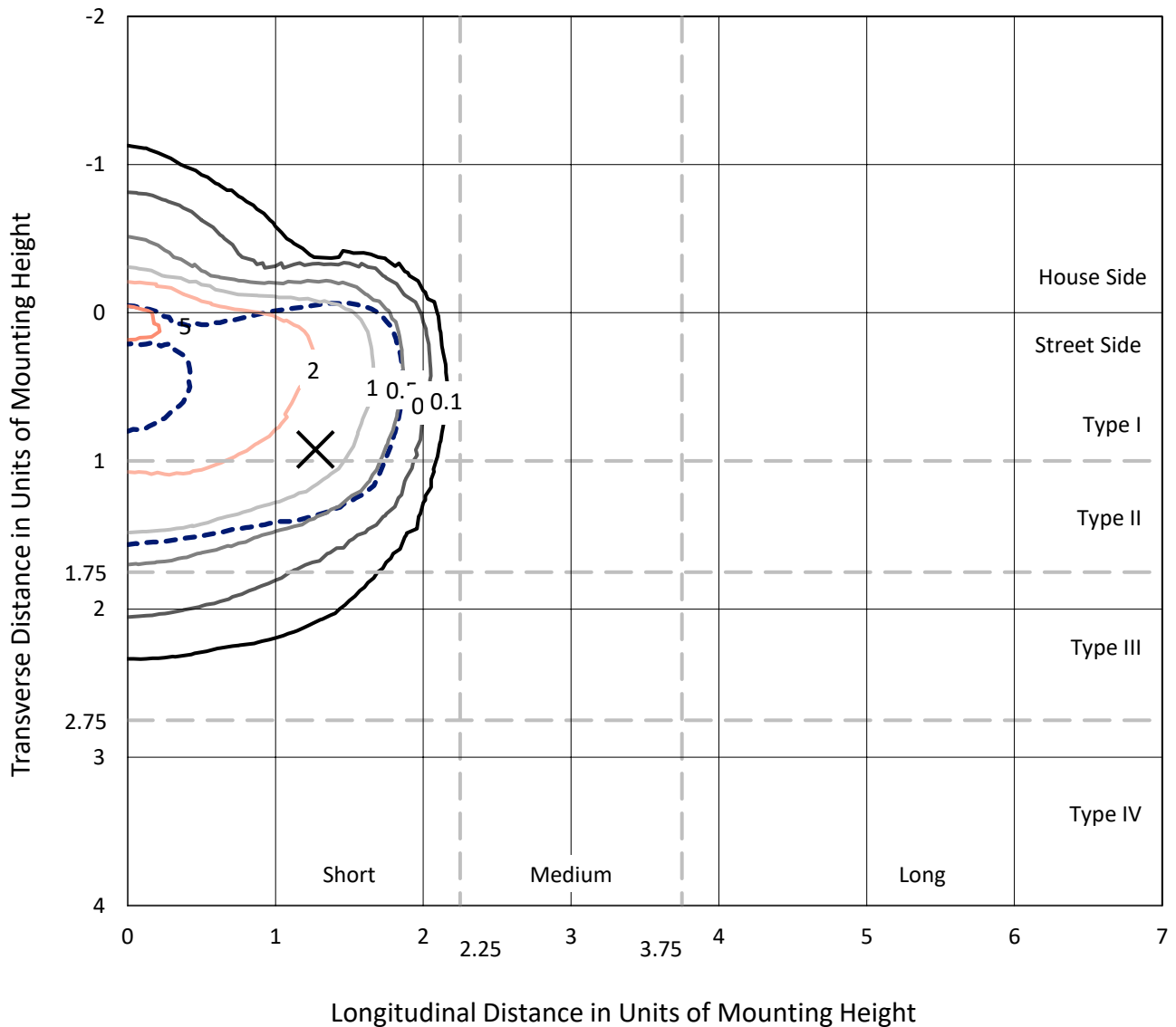
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

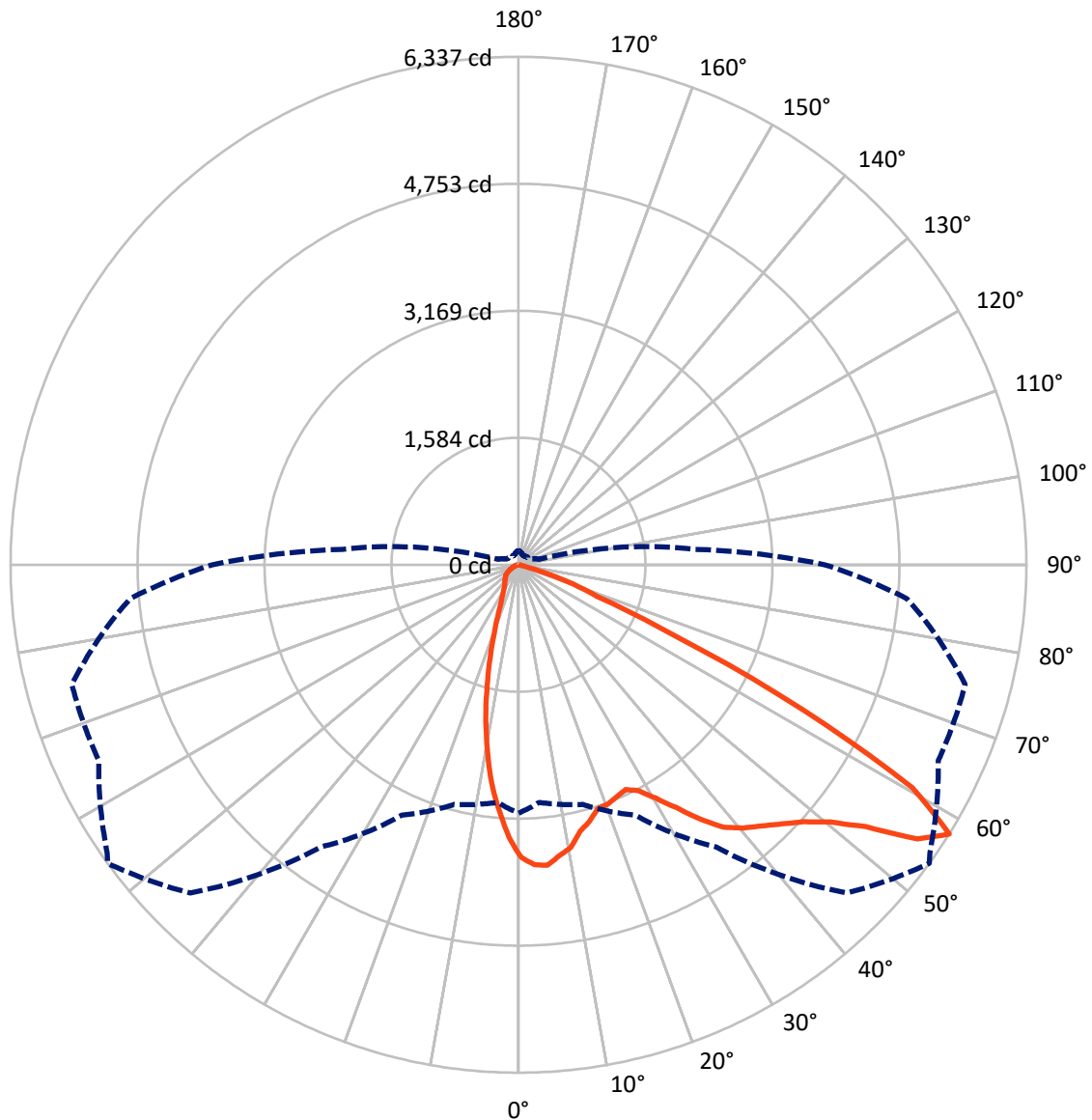
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1170.7	0.0	1170.7
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	7113.4	0.0	7113.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	8284.1	0.0	8284.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.4	3.7
10°-20°	652.0	7.9
20°-30°	864.0	10.4
30°-40°	1255.6	15.2
40°-50°	1861.9	22.5
50°-60°	2328.3	28.1
60°-70°	918.4	11.1
70°-80°	91.4	1.1
80°-90°	7.1	0.1
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°	8284.1	100.0
0°-180°	8284.1	100.0

**Coefficient of Utilization**

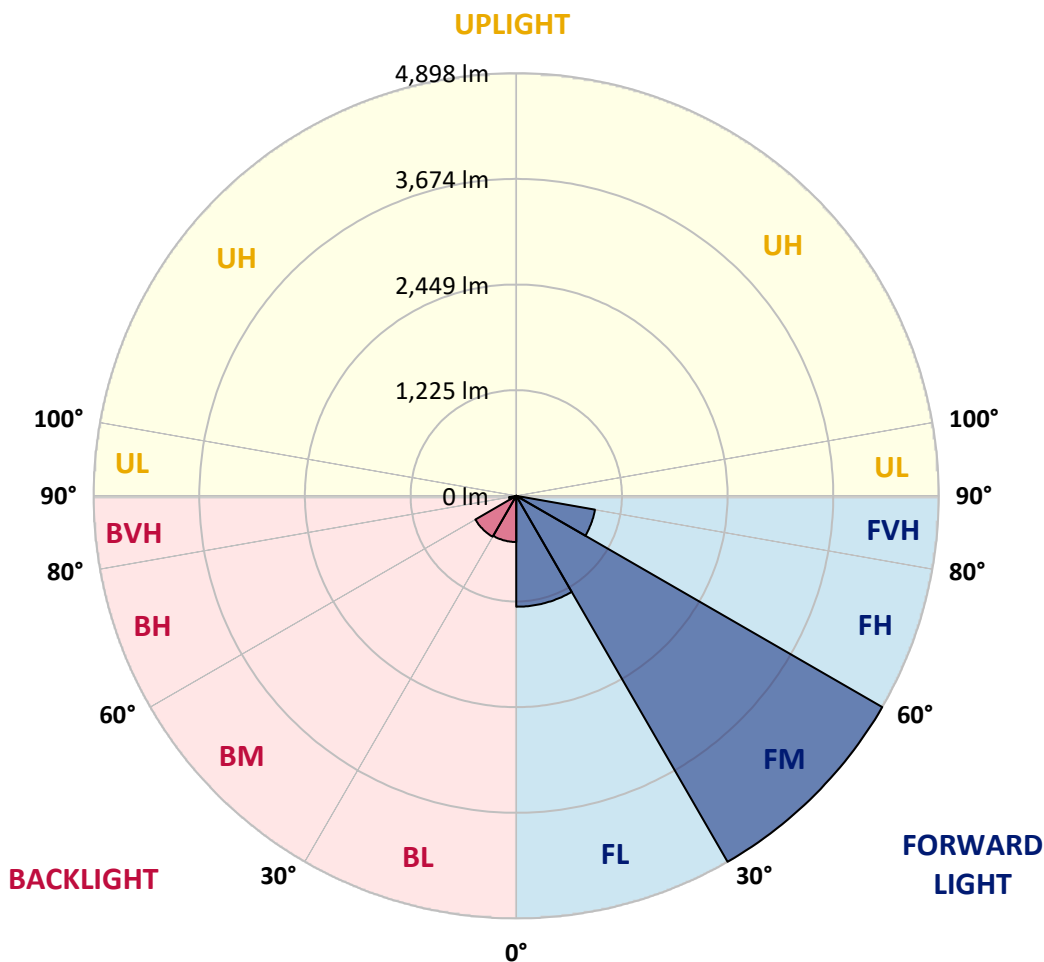


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1285.9	15.5			
FM (30°-60°)	4898.4	59.1			
FH (60°-80°)	925.9	11.2			G1/1800
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	535.4	6.5	B2/1000		
BM (30°-60°)	547.4	6.6	B1/1000		
BH (60°-80°)	83.9	1.0	B0/110		G0/110
BVH (80°-90°)	3.9	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2
2.5°	3861.8	3821.8	3824.9	3811.0	3792.5	3806.4	3746.3	3760.2	3758.6	3677.0	3623.1
5°	3764.8	3808.0	3763.3	3800.2	3764.8	3803.3	3766.4	3738.6	3694.0	3633.9	3533.8
7.5°	3600.0	3558.4	3570.7	3616.9	3624.7	3710.9	3664.7	3700.1	3681.6	3563.0	3425.9
10°	3268.8	3259.6	3321.2	3382.8	3458.3	3550.7	3586.1	3566.1	3552.2	3507.5	3324.2
12.5°	3014.6	3040.8	3039.3	3140.9	3268.8	3321.2	3413.6	3410.5	3487.6	3404.3	3228.7
15°	2772.8	2786.6	2851.3	2914.5	3056.2	3205.6	3319.6	3335.0	3427.4	3368.9	3154.8
17.5°	2624.9	2604.9	2655.7	2731.2	2876.0	3071.6	3197.9	3234.9	3361.2	3348.9	3070.1
20°	2478.6	2478.6	2520.2	2609.5	2742.0	2962.2	3187.1	3176.4	3361.2	3325.8	2979.2
22.5°	2429.3	2453.9	2464.6	2532.5	2689.6	2879.1	3140.9	3161.0	3387.4	3315.0	2939.1
25°	2497.1	2464.6	2467.8	2521.7	2669.6	2839.0	3107.0	3151.7	3435.2	3368.9	2906.8
27.5°	2507.8	2540.1	2549.4	2586.4	2685.0	2851.3	3191.7	3282.6	3553.8	3495.2	2916.0
30°	2601.8	2634.2	2632.6	2695.7	2763.5	2951.4	3381.2	3399.7	3798.7	3653.9	2973.1
32.5°	2715.8	2749.7	2760.5	2834.4	2888.3	3134.7	3612.3	3660.1	4034.4	3903.4	3122.4
35°	2857.5	2845.2	2894.4	2968.4	3083.9	3402.8	3894.2	3974.3	4288.6	4226.9	3276.5
37.5°	3034.7	3019.2	3067.0	3187.1	3344.3	3720.1	4154.5	4206.9	4473.4	4527.3	3561.5
40°	3159.4	3165.6	3310.4	3472.1	3638.5	4022.0	4319.3	4370.2	4602.8	4807.7	3777.1
42.5°	3367.4	3405.9	3580.0	3777.1	3951.2	4248.5	4453.4	4502.6	4662.8	5032.6	4068.2
45°	3669.3	3652.4	3844.9	4065.2	4257.7	4484.2	4612.0	4595.1	4698.3	5256.0	4251.6
47.5°	4057.5	4060.6	4188.4	4376.3	4576.6	4689.1	4789.2	4729.1	4772.2	5491.6	4496.5
50°	4322.5	4345.6	4448.8	4641.3	4741.5	4914.0	5041.8	5004.9	4991.0	5633.4	4650.6
52.5°	4390.2	4459.6	4515.0	4755.3	4989.4	5262.1	5425.4	5503.9	5257.5	5681.1	4846.2
55°	3878.8	3940.4	4136.0	4465.7	5083.4	5813.5	6038.5	6040.0	5605.7	5893.6	4983.3
57.5°	3100.9	2976.1	3096.3	3445.9	4297.8	5790.4	6337.3	6264.9	5779.7	5768.9	4864.7
60°	2144.2	2113.5	2121.1	2259.8	2974.5	4605.9	5647.2	5741.2	5322.2	5000.2	3851.1
62.5°	1699.1	1672.9	1639.1	1623.6	1846.9	2869.9	3983.5	4116.0	3721.7	3242.6	2282.9
65°	1330.9	1315.5	1320.1	1381.8	1380.2	1628.2	2178.1	2124.3	1700.6	1257.0	717.9
67.5°	898.1	921.2	939.7	1126.0	1221.6	1133.8	1052.1	1021.3	553.0	232.6	158.6
70°	505.3	508.3	528.4	704.0	927.3	879.6	725.5	725.5	275.8	84.7	90.9
72.5°	275.8	266.5	248.0	303.5	412.8	419.0	323.5	281.9	81.7	55.4	50.8
75°	134.0	132.5	114.0	94.0	89.3	73.9	57.0	52.4	37.0	35.4	30.8
77.5°	27.7	26.2	13.9	13.9	15.4	16.9	21.5	21.5	26.2	26.2	21.5
80°	0.0	0.0	1.6	6.2	10.8	15.4	18.5	18.5	21.5	21.5	16.9
82.5°	0.0	0.0	1.6	4.6	9.2	13.9	16.9	18.5	21.5	23.1	18.5
85°	0.0	0.0	0.0	3.1	7.7	10.8	9.2	9.2	7.7	6.2	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2	3649.2
2.5°	3595.4	3592.2	3521.4	3481.4	3408.9	3345.8	3294.9	3258.0	3258.0	3234.9	3213.4
5°	3493.7	3467.5	3316.6	3219.5	3082.4	2980.7	2911.4	2857.5	2772.8	2795.9	2705.0
7.5°	3367.4	3301.1	3100.9	2953.0	2763.5	2618.7	2470.8	2339.9	2213.6	2156.6	2187.4
10°	3231.8	3116.3	2846.7	2612.6	2376.9	2111.9	1939.4	1729.9	1600.5	1592.8	1558.9
12.5°	3088.5	2957.6	2629.5	2306.0	1996.4	1677.5	1414.1	1218.5	1130.7	1033.6	1052.1
15°	2980.7	2786.6	2387.7	1997.9	1586.7	1264.7	999.7	848.8	765.6	742.5	734.8
17.5°	2863.7	2655.7	2141.2	1669.8	1244.7	910.4	719.3	647.0	614.7	614.7	610.0
20°	2742.0	2507.8	1896.3	1364.8	933.5	679.3	576.1	553.0	551.5	549.9	549.9
22.5°	2661.9	2338.4	1674.4	1084.5	704.0	543.8	500.7	491.4	497.6	516.1	516.1
25°	2577.2	2175.1	1429.5	836.5	545.3	466.7	442.1	448.3	463.7	480.6	474.4
27.5°	2490.9	2068.8	1198.5	656.2	446.7	408.2	398.9	412.8	429.8	445.2	440.6
30°	2470.8	1954.8	979.7	497.6	383.6	355.9	362.0	374.4	391.3	397.5	403.6
32.5°	2501.7	1865.5	802.6	408.2	334.3	326.6	326.6	332.7	343.5	357.4	352.7
35°	2589.5	1814.6	634.6	354.3	306.5	298.9	297.3	303.5	309.6	314.2	309.6
37.5°	2723.5	1774.6	519.1	314.2	288.1	275.8	272.6	271.2	277.3	278.8	281.9
40°	2894.4	1796.1	440.6	289.6	269.6	255.7	246.5	246.5	246.5	251.1	252.6
42.5°	3079.3	1825.4	380.5	275.8	252.6	235.7	226.4	223.4	226.4	232.6	231.1
45°	3273.4	1882.4	341.9	254.2	237.2	215.6	203.3	200.3	208.0	220.3	218.8
47.5°	3455.1	1964.1	312.7	240.3	221.8	201.8	186.4	183.3	197.2	214.2	215.6
50°	3637.0	2105.8	301.9	229.5	211.0	187.9	174.1	171.0	186.4	208.0	212.6
52.5°	3846.5	2258.3	294.3	215.6	198.7	177.1	161.8	158.6	175.6	203.3	204.9
55°	3983.5	2387.7	288.1	191.1	175.6	160.2	147.9	146.3	164.8	189.5	195.7
57.5°	3823.3	2207.4	266.5	166.4	149.4	141.7	130.9	130.9	146.3	169.4	174.1
60°	2899.1	1452.6	189.5	134.0	126.3	121.7	117.1	117.1	129.4	146.3	147.9
62.5°	1697.5	782.5	121.7	107.8	107.8	103.2	95.5	95.5	107.8	117.1	118.6
65°	503.7	251.1	98.6	92.4	90.9	83.2	75.5	73.9	83.2	87.8	86.3
67.5°	144.8	115.6	81.7	77.0	75.5	63.2	58.6	57.0	58.6	55.4	53.9
70°	86.3	78.5	63.2	64.7	57.0	46.2	41.6	40.1	37.0	32.3	29.3
72.5°	47.8	47.8	46.2	49.3	40.1	30.8	26.2	21.5	16.9	13.9	12.3
75°	29.3	30.8	32.3	33.9	26.2	20.0	16.9	10.8	6.2	3.1	3.1
77.5°	20.0	21.5	23.1	24.7	21.5	18.5	13.9	7.7	1.6	0.0	0.0
80°	15.4	16.9	20.0	21.5	23.1	24.7	18.5	7.7	1.6	0.0	0.0
82.5°	16.9	18.5	23.1	21.5	21.5	21.5	16.9	7.7	1.6	0.0	0.0
85°	3.1	4.6	7.7	7.7	10.8	13.9	10.8	3.1	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)