

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: P647273

Luminaire Tested: **GALN-SA2D-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647273  
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-SA2D-835-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1200mA 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: 7123 lumens  
Efficiency: N/A  
Efficacy: 57.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

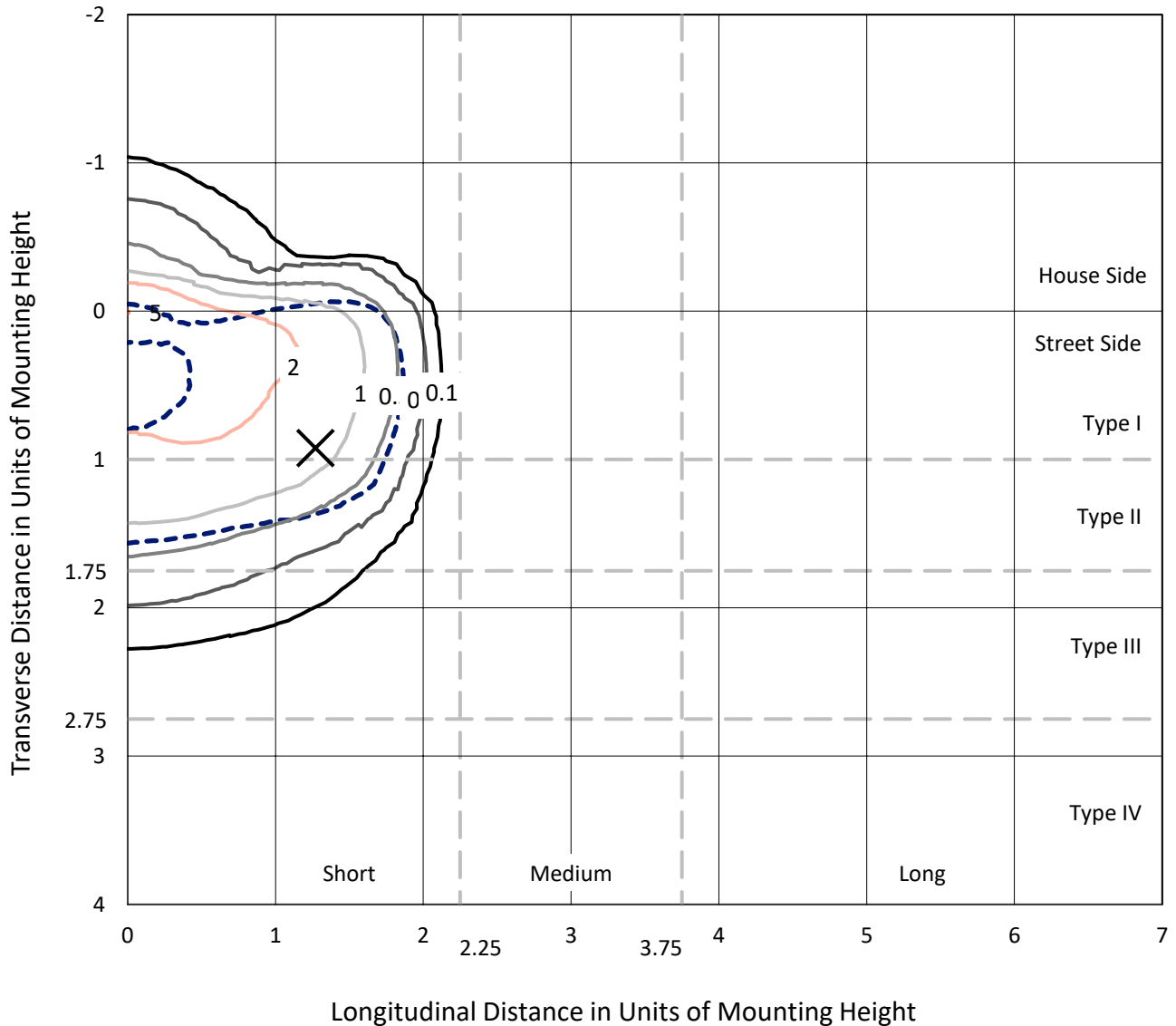
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

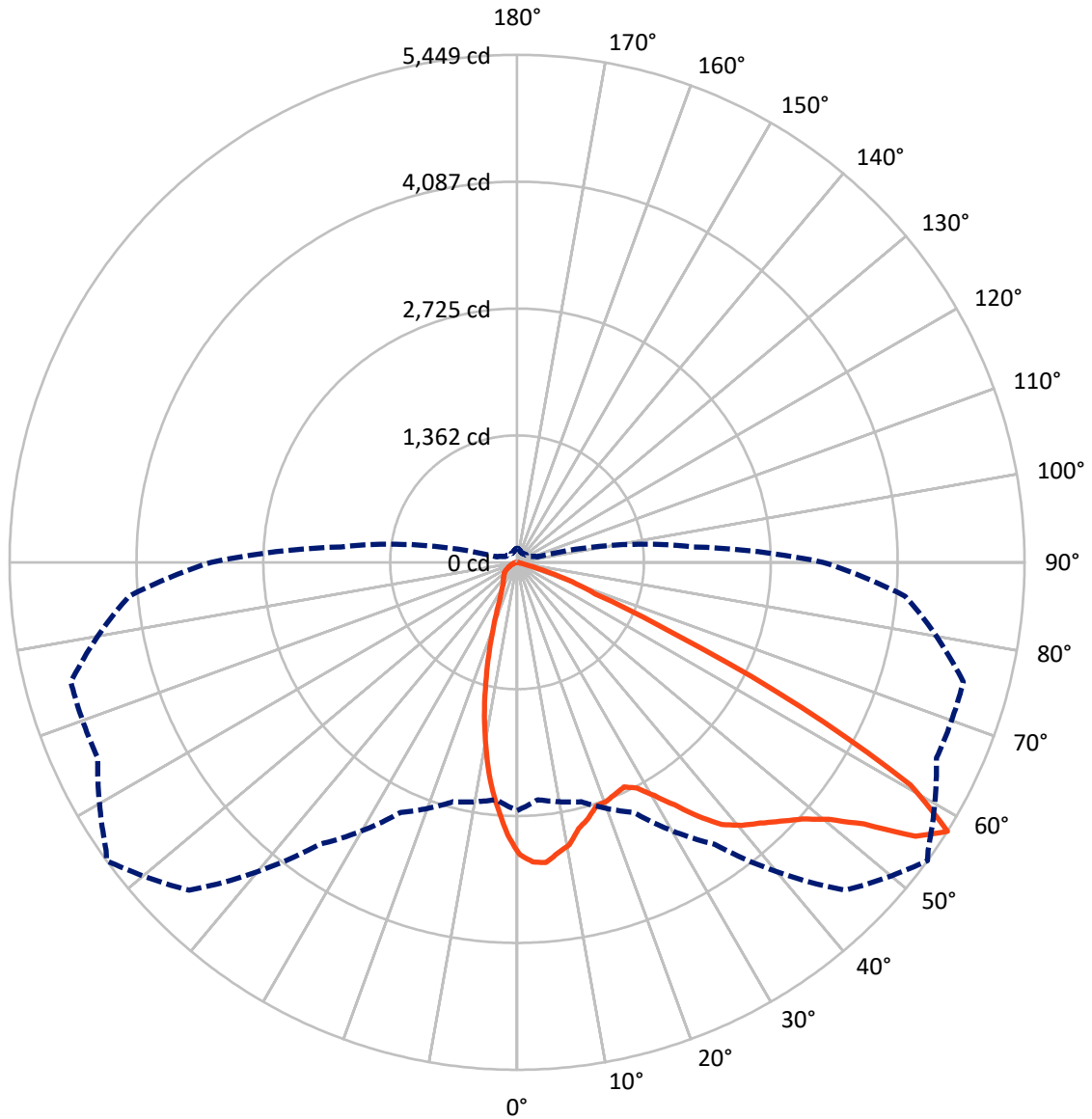
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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	1006.6	0.0	1006.6
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	6116.4	0.0	6116.4
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	7123.0	0.0	7123.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.6	3.7
10°-20°	560.6	7.9
20°-30°	742.9	10.4
30°-40°	1079.6	15.2
40°-50°	1600.9	22.5
50°-60°	2001.9	28.1
60°-70°	789.7	11.1
70°-80°	78.6	1.1
80°-90°	6.1	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°	7123.0	100.0
0°-180°	7123.0	100.0

**Coefficient of Utilization**

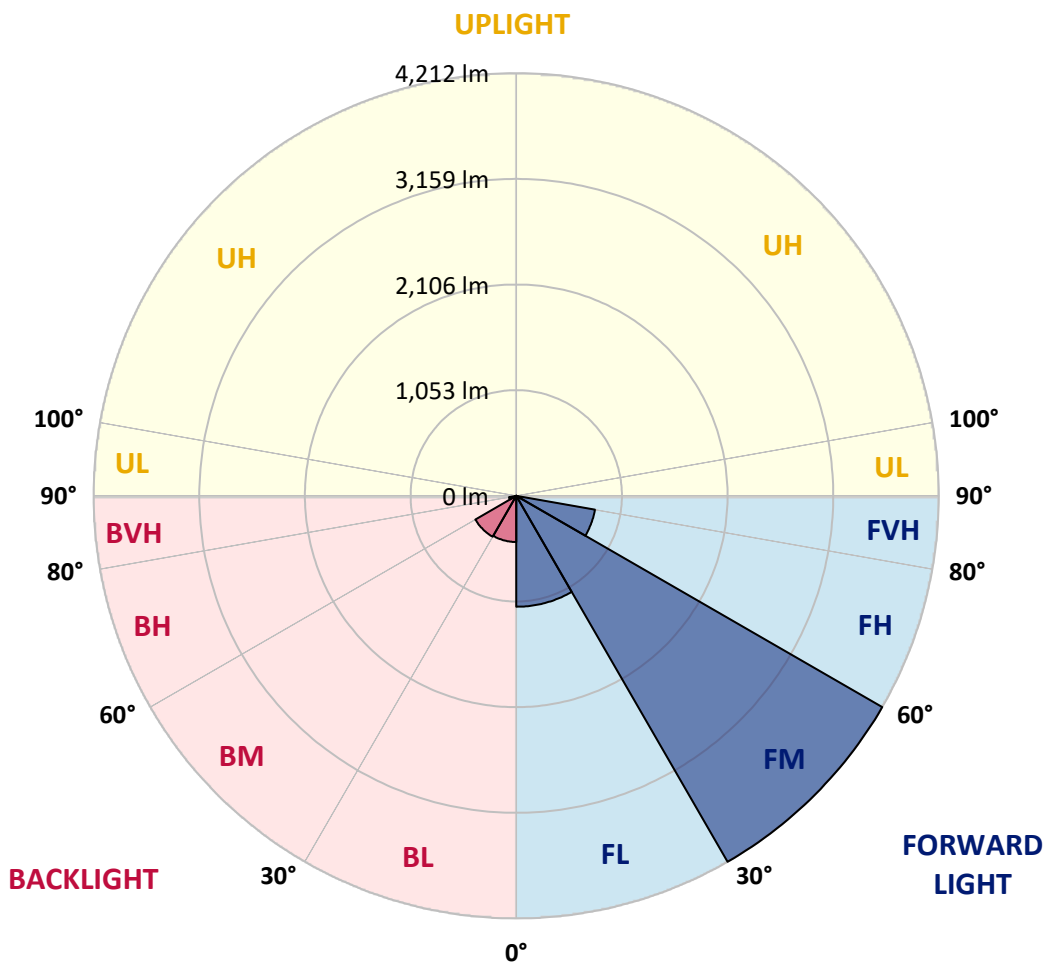


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1105.7	15.5			
FM (30°-60°)	4211.8	59.1			
FH (60°-80°)	796.1	11.2			G1/1800
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	460.4	6.5	B1/500		
BM (30°-60°)	470.7	6.6	B1/1000		
BH (60°-80°)	72.2	1.0	B0/110		G0/110
BVH (80°-90°)	3.3	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-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8
2.5°	3320.5	3286.1	3288.8	3276.9	3261.0	3272.9	3221.2	3233.1	3231.8	3161.6	3115.2
5°	3237.1	3274.2	3235.7	3267.5	3237.1	3270.2	3238.4	3214.6	3176.2	3124.5	3038.4
7.5°	3095.4	3059.6	3070.2	3109.9	3116.6	3190.7	3151.0	3181.5	3165.6	3063.6	2945.7
10°	2810.6	2802.7	2855.6	2908.6	2973.5	3053.0	3083.5	3066.2	3054.3	3015.9	2858.3
12.5°	2592.0	2614.6	2613.3	2700.6	2810.6	2855.6	2935.1	2932.5	2998.7	2927.2	2776.1
15°	2384.1	2396.1	2451.7	2506.0	2627.8	2756.3	2854.3	2867.6	2947.1	2896.7	2712.6
17.5°	2257.0	2239.8	2283.5	2348.4	2472.9	2641.1	2749.7	2781.5	2890.1	2879.5	2639.7
20°	2131.2	2131.2	2166.9	2243.7	2357.6	2547.0	2740.4	2731.1	2890.1	2859.6	2561.6
22.5°	2088.7	2110.0	2119.2	2177.5	2312.6	2475.5	2700.6	2717.9	2912.6	2850.4	2527.1
25°	2147.0	2119.2	2121.9	2168.2	2295.4	2441.1	2671.5	2710.0	2953.6	2896.7	2499.3
27.5°	2156.3	2184.1	2192.1	2223.9	2308.6	2451.7	2744.4	2822.6	3055.7	3005.3	2507.3
30°	2237.1	2264.9	2263.6	2317.9	2376.2	2537.8	2907.3	2923.2	3266.2	3141.7	2556.3
32.5°	2335.1	2364.3	2373.5	2437.1	2483.4	2695.4	3106.0	3147.0	3468.8	3356.3	2684.8
35°	2457.0	2446.3	2488.8	2552.3	2651.6	2925.8	3348.3	3417.2	3687.5	3634.5	2817.2
37.5°	2609.3	2596.0	2637.1	2740.4	2875.5	3198.7	3572.2	3617.2	3846.3	3892.8	3062.2
40°	2716.5	2721.9	2846.4	2985.4	3128.5	3458.3	3713.9	3757.6	3957.6	4133.8	3247.7
42.5°	2895.4	2928.5	3078.1	3247.7	3397.4	3653.0	3829.2	3871.5	4009.3	4327.2	3498.1
45°	3154.9	3140.4	3306.0	3495.4	3660.9	3855.6	3965.6	3951.0	4039.7	4519.2	3655.7
47.5°	3488.7	3491.4	3601.3	3762.9	3935.1	4031.8	4117.9	4066.2	4103.3	4721.9	3866.2
50°	3716.6	3736.4	3825.2	3990.7	4076.8	4225.1	4335.1	4303.3	4291.4	4843.7	3998.7
52.5°	3774.8	3834.4	3882.1	4088.7	4290.1	4524.5	4664.9	4732.5	4520.6	4884.7	4166.9
55°	3335.1	3388.1	3556.3	3839.8	4370.9	4998.7	5192.1	5193.4	4819.9	5067.6	4284.8
57.5°	2666.2	2558.9	2662.3	2963.0	3695.4	4978.8	5449.1	5386.8	4969.5	4960.3	4182.8
60°	1843.7	1817.2	1823.8	1943.0	2557.6	3960.3	4855.6	4936.4	4576.2	4299.4	3311.2
62.5°	1460.9	1438.4	1409.2	1396.0	1588.1	2467.5	3425.2	3539.1	3200.0	2788.1	1962.9
65°	1144.4	1131.1	1135.1	1188.0	1186.8	1400.0	1872.9	1826.5	1462.3	1080.8	617.2
67.5°	772.2	792.1	808.0	968.2	1050.3	974.8	904.6	878.1	475.5	200.0	136.4
70°	434.4	437.1	454.3	605.3	797.3	756.3	623.8	623.8	237.1	72.8	78.1
72.5°	237.1	229.1	213.2	260.9	354.9	360.3	278.1	242.4	70.2	47.7	43.7
75°	115.3	113.9	98.0	80.8	76.8	63.6	49.0	45.0	31.8	30.5	26.5
77.5°	23.8	22.6	11.9	11.9	13.2	14.6	18.6	18.6	22.6	22.6	18.6
80°	0.0	0.0	1.3	5.3	9.2	13.2	15.9	15.9	18.6	18.6	14.6
82.5°	0.0	0.0	1.3	4.0	7.9	11.9	14.6	15.9	18.6	19.9	15.9
85°	0.0	0.0	0.0	2.7	6.7	9.2	7.9	7.9	6.7	5.3	2.7
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°	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8	3137.8
2.5°	3091.4	3088.8	3027.8	2993.4	2931.2	2876.8	2833.1	2801.3	2801.3	2781.5	2762.9
5°	3004.0	2981.4	2851.7	2768.2	2650.3	2562.9	2503.3	2457.0	2384.1	2404.0	2325.8
7.5°	2895.4	2838.5	2666.2	2539.1	2376.2	2251.7	2124.5	2011.9	1903.3	1854.3	1880.8
10°	2778.8	2679.5	2447.7	2246.3	2043.7	1815.9	1667.6	1487.4	1376.2	1369.5	1340.4
12.5°	2655.6	2543.0	2260.9	1982.8	1716.6	1442.4	1215.9	1047.7	972.2	888.7	904.6
15°	2562.9	2396.1	2052.9	1717.9	1364.2	1087.4	859.6	729.8	658.3	638.4	631.8
17.5°	2462.2	2283.5	1841.1	1435.8	1070.2	782.8	618.6	556.3	528.4	528.4	524.5
20°	2357.6	2156.3	1630.4	1173.5	802.7	584.1	495.4	475.5	474.2	472.9	472.9
22.5°	2288.7	2010.6	1439.7	932.5	605.3	467.5	430.5	422.5	427.8	443.7	443.7
25°	2215.9	1870.2	1229.2	719.2	468.9	401.3	380.1	385.4	398.7	413.3	407.9
27.5°	2141.7	1778.8	1030.4	564.2	384.1	351.0	343.0	354.9	369.6	382.8	378.8
30°	2124.5	1680.8	842.4	427.8	329.8	306.0	311.2	321.9	336.5	341.7	347.0
32.5°	2151.0	1604.0	690.1	351.0	287.4	280.8	280.8	286.1	295.3	307.2	303.3
35°	2226.5	1560.3	545.7	304.7	263.6	257.0	255.6	260.9	266.2	270.2	266.2
37.5°	2341.7	1525.8	446.4	270.2	247.7	237.1	234.4	233.1	238.4	239.8	242.4
40°	2488.8	1544.4	378.8	249.0	231.8	219.9	212.0	212.0	212.0	215.9	217.2
42.5°	2647.7	1569.5	327.1	237.1	217.2	202.6	194.7	192.1	194.7	200.0	198.6
45°	2814.6	1618.5	294.0	218.5	204.0	185.4	174.8	172.2	178.8	189.4	188.1
47.5°	2970.9	1688.8	268.9	206.6	190.7	173.5	160.3	157.6	169.5	184.1	185.4
50°	3127.1	1810.6	259.6	197.3	181.4	161.6	149.6	147.0	160.3	178.8	182.8
52.5°	3307.3	1941.8	253.0	185.4	170.9	152.3	139.1	136.4	151.0	174.8	176.2
55°	3425.2	2052.9	247.7	164.3	151.0	137.7	127.2	125.8	141.7	162.9	168.2
57.5°	3287.4	1898.0	229.1	143.1	128.5	121.8	112.6	112.6	125.8	145.7	149.6
60°	2492.8	1249.0	162.9	115.3	108.6	104.6	100.7	100.7	111.3	125.8	127.2
62.5°	1459.6	672.8	104.6	92.7	92.7	88.7	82.1	82.1	92.7	100.7	102.0
65°	433.1	215.9	84.8	79.5	78.1	71.5	64.9	63.6	71.5	75.5	74.2
67.5°	124.5	99.4	70.2	66.2	64.9	54.3	50.3	49.0	50.3	47.7	46.4
70°	74.2	67.6	54.3	55.6	49.0	39.7	35.8	34.5	31.8	27.8	25.1
72.5°	41.0	41.0	39.7	42.4	34.5	26.5	22.6	18.6	14.6	11.9	10.6
75°	25.1	26.5	27.8	29.1	22.6	17.2	14.6	9.2	5.3	2.7	2.7
77.5°	17.2	18.6	19.9	21.2	18.6	15.9	11.9	6.7	1.3	0.0	0.0
80°	13.2	14.6	17.2	18.6	19.9	21.2	15.9	6.7	1.3	0.0	0.0
82.5°	14.6	15.9	19.9	18.6	18.6	18.6	14.6	6.7	1.3	0.0	0.0
85°	2.7	4.0	6.7	6.7	9.2	11.9	9.2	2.7	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)