

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: P529039

Luminaire Tested: **GALN-SA4A-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529039  
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-830-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 3000K, 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: 8407 lumens  
Efficiency: N/A  
Efficacy: 69.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

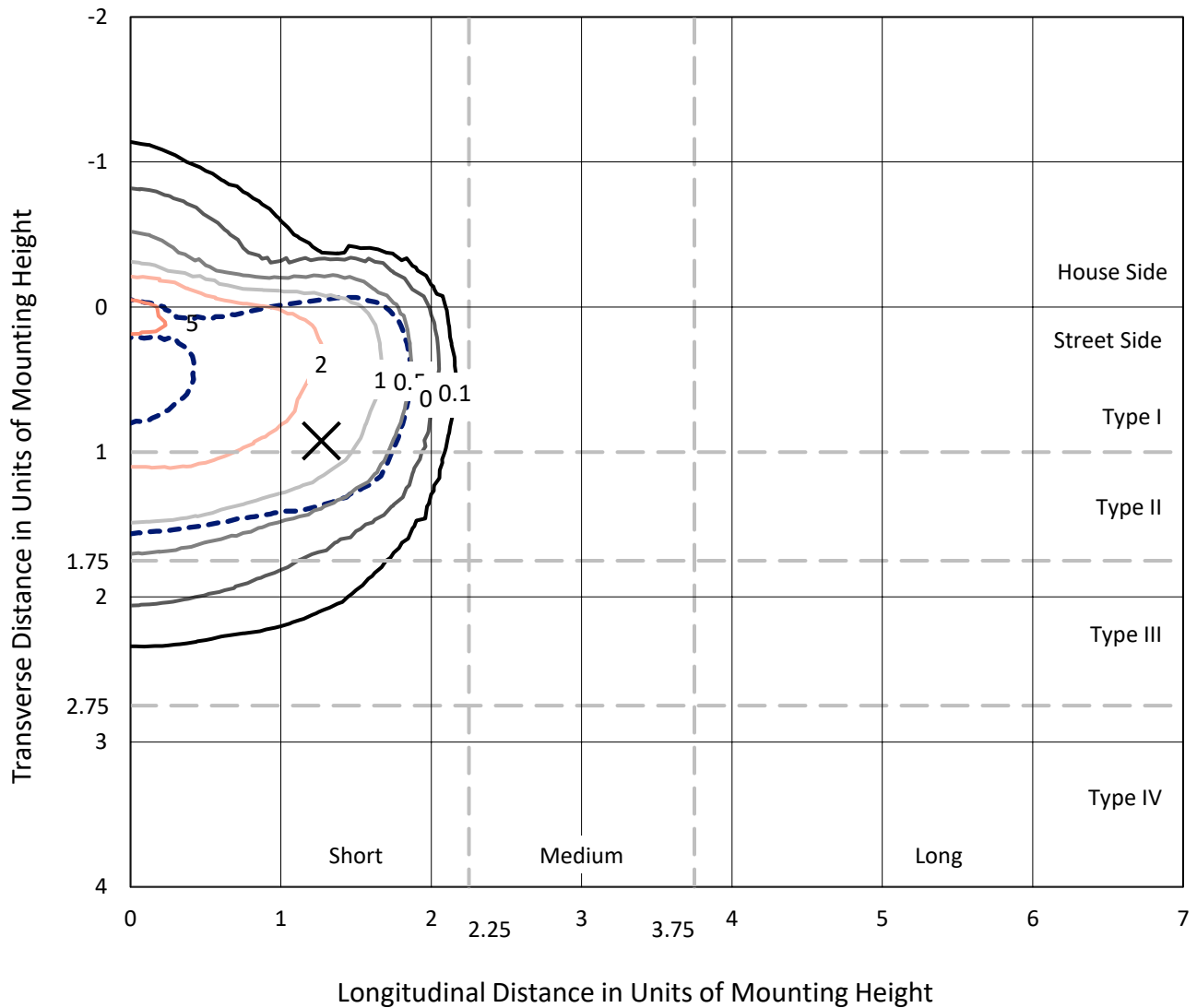
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

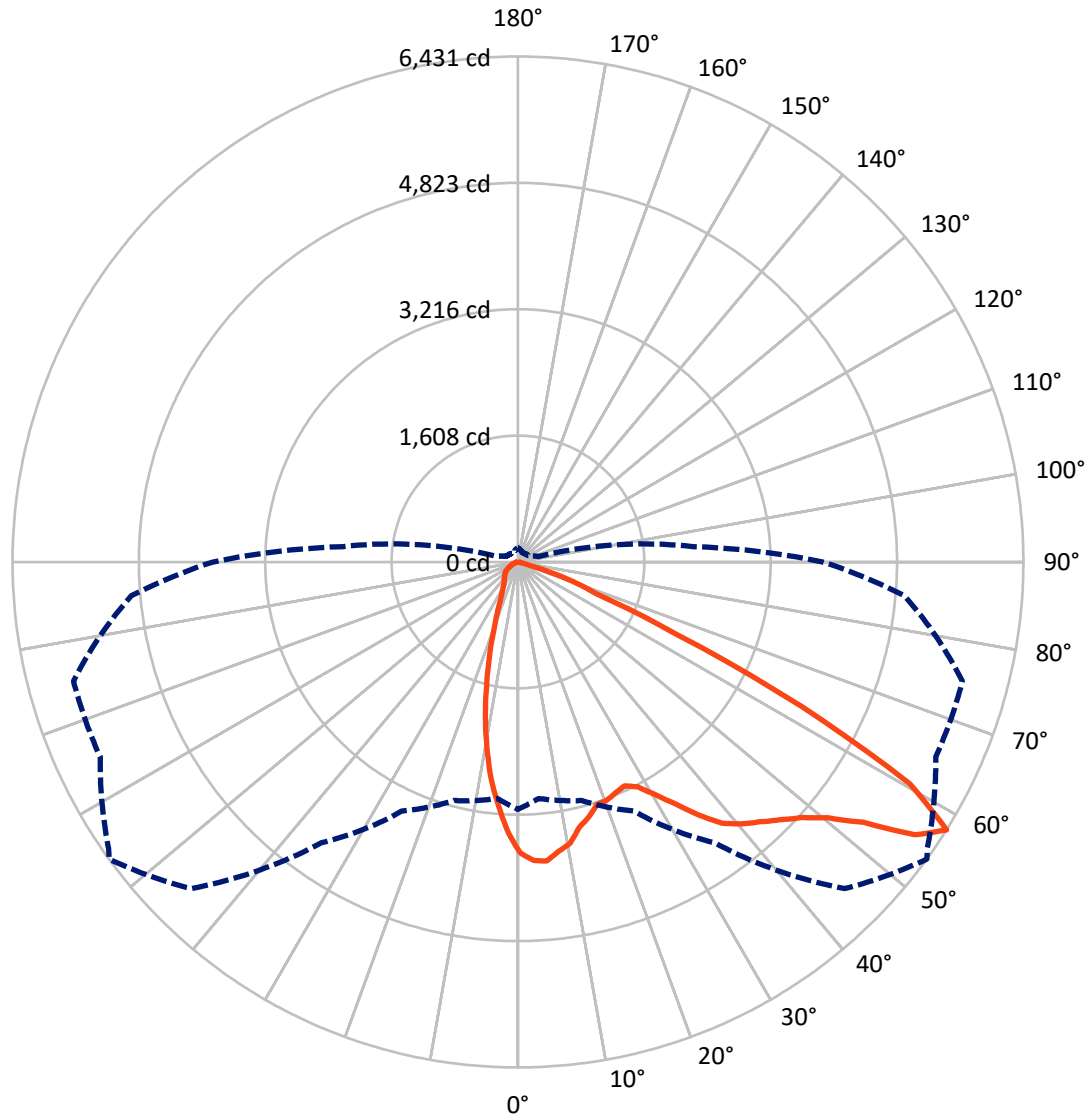
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1188.0	0.0	1188.0
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	7219.0	0.0	7219.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	8407.0	0.0	8407.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.9	3.7
10°-20°	661.6	7.9
20°-30°	876.8	10.4
30°-40°	1274.3	15.2
40°-50°	1889.5	22.5
50°-60°	2362.8	28.1
60°-70°	932.0	11.1
70°-80°	92.8	1.1
80°-90°	7.2	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°	8407.0	100.0
0°-180°	8407.0	100.0

**Coefficient of Utilization**

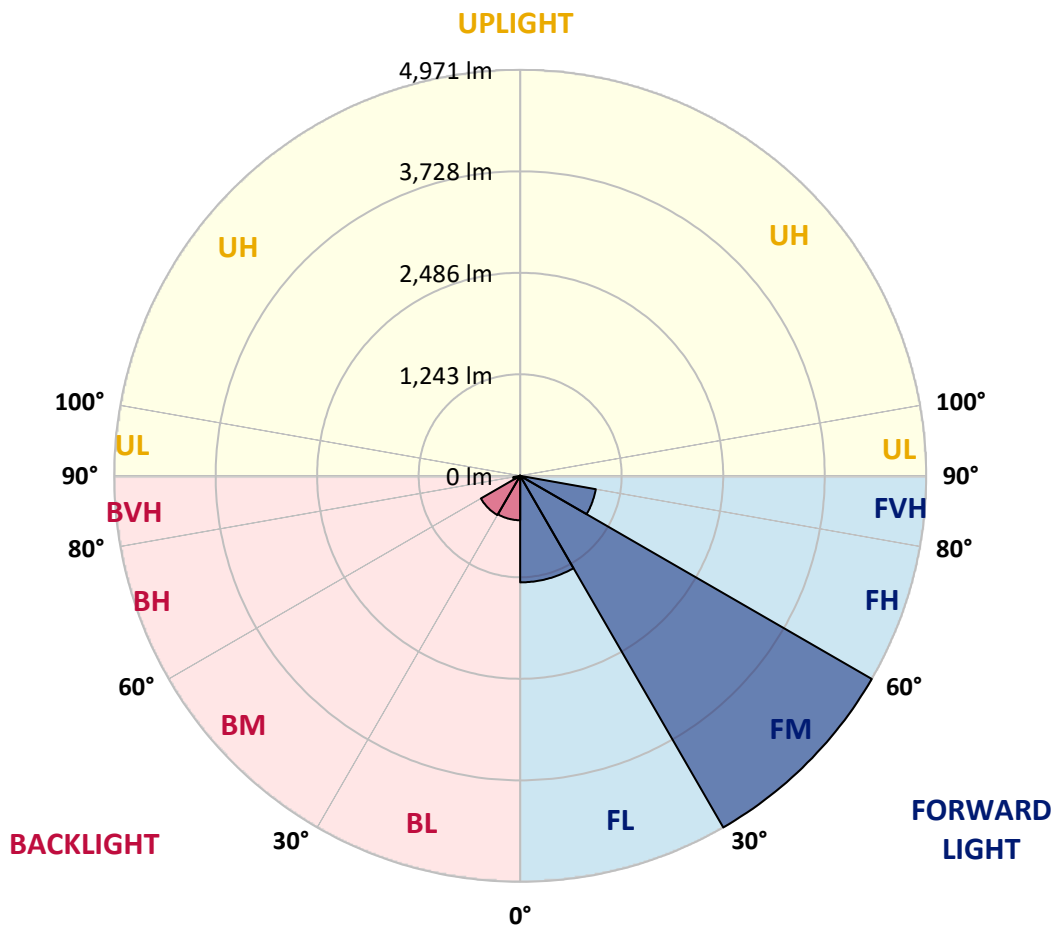


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1305.0	15.5			
FM (30°-60°)	4971.0	59.1			
FH (60°-80°)	939.6	11.2			G1/1800
FVH (80°-90°)	3.3	0.0			G0/10
BL (0°-30°)	543.4	6.5	B2/1000		
BM (30°-60°)	555.6	6.6	B1/1000		
BH (60°-80°)	85.2	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°	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4
2.5°	3919.1	3878.5	3881.6	3867.5	3848.8	3862.9	3801.9	3816.0	3814.4	3731.5	3676.8
5°	3820.6	3864.4	3819.1	3856.6	3820.6	3859.7	3822.2	3794.1	3748.7	3687.8	3586.2
7.5°	3653.4	3611.2	3623.7	3670.6	3678.4	3765.9	3719.0	3755.0	3736.2	3615.9	3476.7
10°	3317.3	3307.9	3370.4	3433.0	3509.6	3603.3	3639.3	3619.0	3604.9	3559.6	3373.5
12.5°	3059.3	3085.9	3084.3	3187.5	3317.3	3370.4	3464.2	3461.1	3539.3	3454.8	3276.6
15°	2813.9	2828.0	2893.6	2957.7	3101.5	3253.2	3368.9	3384.5	3478.3	3418.9	3201.6
17.5°	2663.8	2643.5	2695.1	2771.7	2918.6	3117.2	3245.4	3282.9	3411.1	3398.6	3115.6
20°	2515.3	2515.3	2557.5	2648.2	2782.6	3006.2	3234.4	3223.5	3411.1	3375.1	3023.4
22.5°	2465.3	2490.3	2501.2	2570.0	2729.5	2921.8	3187.5	3207.8	3437.6	3364.2	2982.7
25°	2534.1	2501.2	2504.4	2559.1	2709.2	2881.1	3153.1	3198.5	3486.1	3418.9	2949.9
27.5°	2545.0	2577.8	2587.2	2624.7	2724.8	2893.6	3239.1	3331.3	3606.5	3547.1	2959.3
30°	2640.4	2673.2	2671.6	2735.7	2804.5	2995.2	3431.4	3450.1	3855.0	3708.1	3017.1
32.5°	2756.1	2790.4	2801.4	2876.4	2931.1	3181.3	3665.9	3714.3	4094.2	3961.3	3168.8
35°	2899.9	2887.4	2937.4	3012.4	3129.7	3453.3	3952.0	4033.2	4352.2	4289.6	3325.1
37.5°	3079.7	3064.0	3112.5	3234.4	3393.9	3775.3	4216.2	4269.3	4539.7	4594.5	3614.3
40°	3206.3	3212.5	3359.5	3523.6	3692.5	4081.7	4383.4	4435.0	4671.1	4879.0	3833.1
42.5°	3417.3	3456.4	3633.0	3833.1	4009.8	4311.5	4519.4	4569.5	4732.0	5107.2	4128.6
45°	3723.7	3706.5	3901.9	4125.5	4320.9	4550.7	4680.4	4663.2	4768.0	5333.9	4314.6
47.5°	4117.7	4120.8	4250.5	4441.3	4644.5	4758.6	4860.2	4799.3	4843.0	5573.1	4563.2
50°	4386.5	4410.0	4514.7	4710.1	4811.8	4986.8	5116.6	5079.1	5065.0	5716.9	4719.5
52.5°	4455.3	4525.7	4582.0	4825.8	5063.4	5340.1	5505.9	5585.6	5335.5	5765.4	4918.1
55°	3936.3	3998.9	4197.4	4531.9	5158.8	5899.8	6128.0	6129.6	5688.8	5981.1	5057.2
57.5°	3146.9	3020.2	3142.2	3497.0	4361.5	5876.3	6431.3	6357.8	5865.4	5854.5	4936.8
60°	2176.1	2144.8	2152.6	2293.3	3018.7	4674.2	5731.0	5826.3	5401.1	5074.4	3908.2
62.5°	1724.3	1697.7	1663.3	1647.7	1874.4	2912.4	4042.6	4177.1	3776.9	3290.7	2316.8
65°	1350.7	1335.0	1339.7	1402.3	1400.7	1652.4	2210.5	2155.8	1725.9	1275.6	728.5
67.5°	911.4	934.8	953.6	1142.8	1239.7	1150.6	1067.7	1036.5	561.2	236.1	161.0
70°	512.8	515.9	536.2	714.4	941.1	892.6	736.3	736.3	279.8	86.0	92.2
72.5°	279.8	270.4	251.7	308.0	419.0	425.2	328.3	286.1	82.9	56.3	51.6
75°	136.0	134.4	115.7	95.4	90.7	75.0	57.8	53.2	37.5	36.0	31.3
77.5°	28.1	26.6	14.1	14.1	15.6	17.2	21.9	21.9	26.6	26.6	21.9
80°	0.0	0.0	1.6	6.3	10.9	15.6	18.8	18.8	21.9	21.9	17.2
82.5°	0.0	0.0	1.6	4.7	9.4	14.1	17.2	18.8	21.9	23.4	18.8
85°	0.0	0.0	0.0	3.1	7.8	10.9	9.4	9.4	7.8	6.3	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°	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4	3703.4
2.5°	3648.7	3645.6	3573.6	3533.0	3459.5	3395.4	3343.8	3306.3	3306.3	3282.9	3261.0
5°	3545.5	3518.9	3365.7	3267.2	3128.1	3024.9	2954.6	2899.9	2813.9	2837.3	2745.1
7.5°	3417.3	3350.1	3146.9	2996.8	2804.5	2657.6	2507.5	2374.6	2246.4	2188.6	2219.8
10°	3279.7	3162.5	2888.9	2651.3	2412.1	2143.2	1968.2	1755.6	1624.2	1616.4	1582.0
12.5°	3134.4	3001.5	2668.5	2340.2	2026.0	1702.4	1435.1	1236.5	1147.4	1049.0	1067.7
15°	3024.9	2828.0	2423.1	2027.6	1610.2	1283.4	1014.6	861.4	776.9	753.5	745.7
17.5°	2906.1	2695.1	2173.0	1694.6	1263.1	923.9	730.0	656.6	623.7	623.7	619.1
20°	2782.6	2545.0	1924.4	1385.1	947.3	689.4	584.7	561.2	559.7	558.1	558.1
22.5°	2701.3	2373.1	1699.3	1100.5	714.4	551.8	508.1	498.7	504.9	523.7	523.7
25°	2615.4	2207.3	1450.7	848.9	553.4	473.7	448.7	454.9	470.5	487.7	481.5
27.5°	2527.8	2099.5	1216.2	666.0	453.3	414.3	404.9	419.0	436.2	451.8	447.1
30°	2507.5	1983.8	994.2	504.9	389.3	361.1	367.4	379.9	397.1	403.3	409.6
32.5°	2538.8	1893.1	814.5	414.3	339.2	331.4	331.4	337.7	348.6	362.7	358.0
35°	2627.9	1841.5	644.1	359.6	311.1	303.3	301.7	308.0	314.2	318.9	314.2
37.5°	2763.9	1800.9	526.8	318.9	292.3	279.8	276.7	275.1	281.4	283.0	286.1
40°	2937.4	1822.8	447.1	293.9	273.6	259.5	250.1	250.1	250.1	254.8	256.4
42.5°	3125.0	1852.5	386.1	279.8	256.4	239.2	229.8	226.7	229.8	236.1	234.5
45°	3322.0	1910.3	347.0	257.9	240.7	218.9	206.4	203.2	211.0	223.5	222.0
47.5°	3506.4	1993.2	317.3	243.9	225.1	204.8	189.2	186.0	200.1	217.3	218.9
50°	3690.9	2137.0	306.4	232.9	214.2	190.7	176.6	173.5	189.2	211.0	215.7
52.5°	3903.5	2291.8	298.6	218.9	201.7	179.8	164.1	161.0	178.2	206.4	207.9
55°	4042.6	2423.1	292.3	193.8	178.2	162.6	150.1	148.5	167.3	192.3	198.5
57.5°	3880.0	2240.2	270.4	168.8	151.6	143.8	132.9	132.9	148.5	172.0	176.6
60°	2942.1	1474.2	192.3	136.0	128.2	123.5	118.8	118.8	131.3	148.5	150.1
62.5°	1722.7	794.1	123.5	109.4	109.4	104.7	96.9	96.9	109.4	118.8	120.4
65°	511.2	254.8	100.0	93.8	92.2	84.4	76.6	75.0	84.4	89.1	87.5
67.5°	146.9	117.2	82.9	78.2	76.6	64.1	59.4	57.8	59.4	56.3	54.7
70°	87.5	79.7	64.1	65.7	57.8	46.9	42.2	40.6	37.5	32.8	29.7
72.5°	48.5	48.5	46.9	50.0	40.6	31.3	26.6	21.9	17.2	14.1	12.5
75°	29.7	31.3	32.8	34.4	26.6	20.3	17.2	10.9	6.3	3.1	3.1
77.5°	20.3	21.9	23.4	25.0	21.9	18.8	14.1	7.8	1.6	0.0	0.0
80°	15.6	17.2	20.3	21.9	23.4	25.0	18.8	7.8	1.6	0.0	0.0
82.5°	17.2	18.8	23.4	21.9	21.9	21.9	17.2	7.8	1.6	0.0	0.0
85°	3.1	4.7	7.8	7.8	10.9	14.1	10.9	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)