

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: P459060

Luminaire Tested: **GALN-SA5C-735-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P459060  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5C-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23617 lumens  
Efficiency: N/A  
Efficacy: 87.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

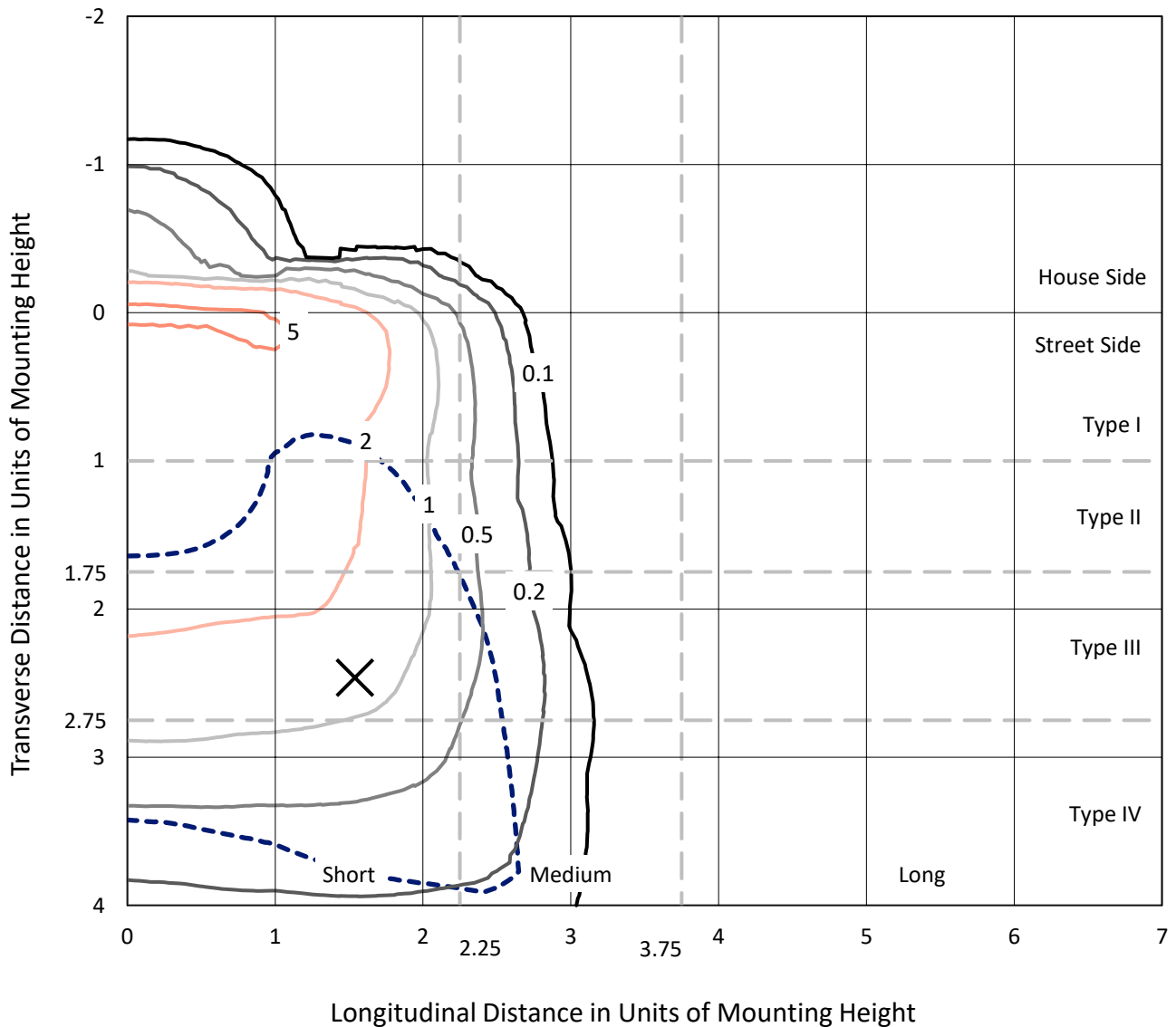
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

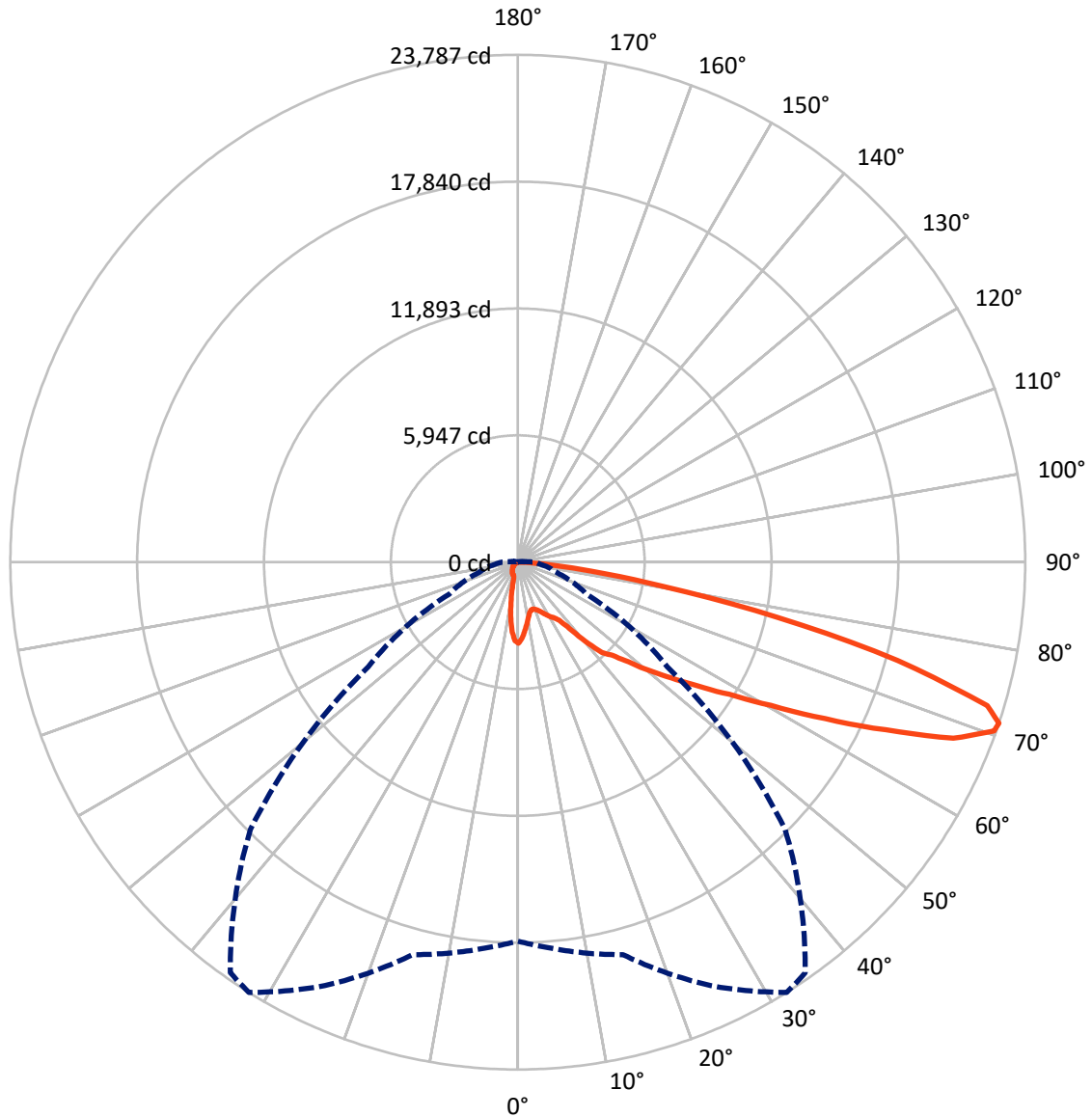
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1978.2	0.0	1978.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	21638.8	0.0	21638.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	23617.0	0.0	23617.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.8	1.3
10°-20°	670.3	2.8
20°-30°	1042.7	4.4
30°-40°	1737.1	7.4
40°-50°	3231.4	13.7
50°-60°	5188.1	22.0
60°-70°	6978.3	29.5
70°-80°	4140.3	17.5
80°-90°	320.0	1.4
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°	23617.0	100.0
0°-180°	23617.0	100.0



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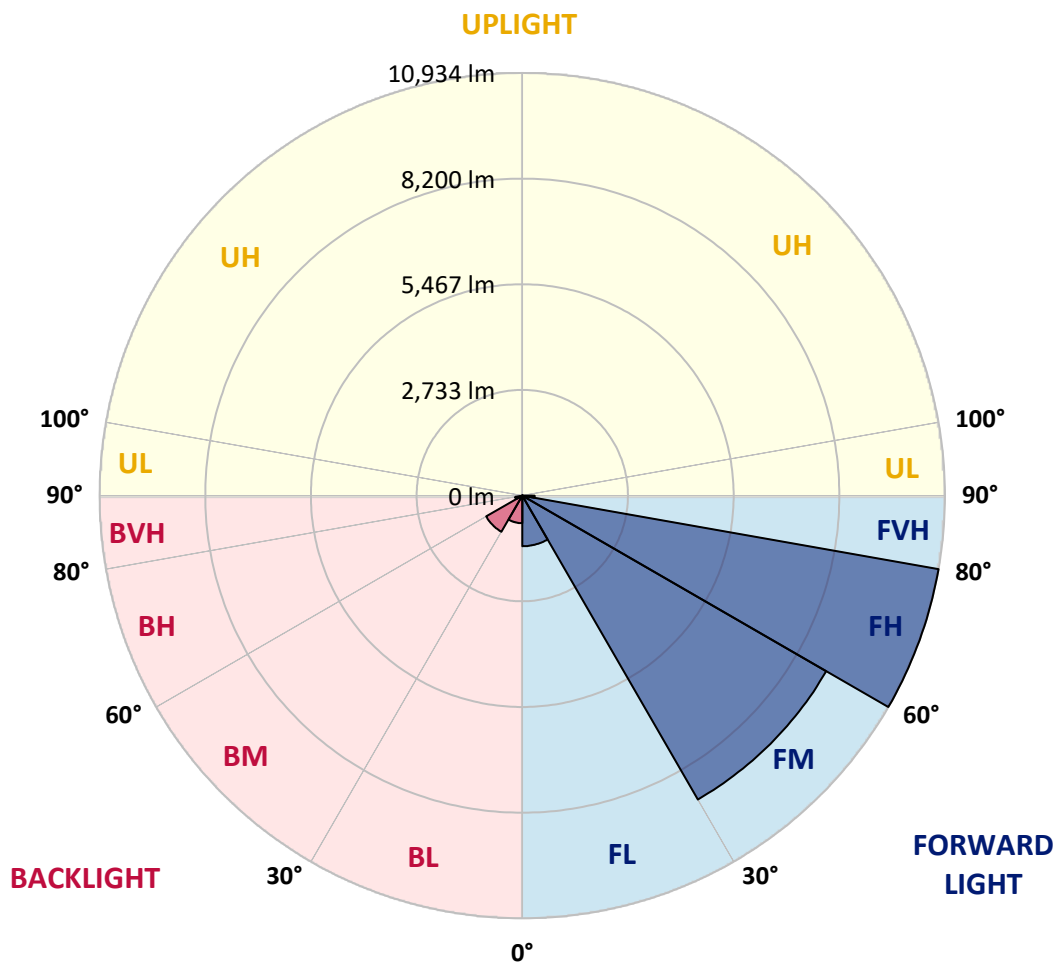
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1309.0	5.5			
FM	(30°-60°)	9077.5	38.4			
FH	(60°-80°)	10933.5	46.3			G4/12000
FVH	(80°-90°)	318.8	1.3			G3/500
BL	(0°-30°)	712.8	3.0	B2/1000		
BM	(30°-60°)	1079.1	4.6	B2/2500		
BH	(60°-80°)	185.0	0.8	B1/500		G1/500
BVH	(80°-90°)	1.2	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-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0
2.5°	3522.4	3558.7	3553.2	3565.9	3596.8	3609.4	3643.9	3682.0	3734.5	3770.8	3794.4
5°	3154.4	3181.6	3185.2	3248.7	3279.5	3313.9	3415.5	3526.1	3649.3	3747.2	3812.5
7.5°	2761.0	2775.5	2804.5	2887.9	2965.9	3000.3	3154.4	3346.6	3540.6	3723.7	3841.5
10°	2436.5	2452.8	2505.4	2594.2	2666.7	2712.1	2926.0	3167.1	3439.0	3711.0	3883.2
12.5°	2251.6	2260.7	2280.6	2360.4	2452.8	2501.8	2732.0	3007.6	3357.5	3716.4	3953.9
15°	2238.9	2235.3	2211.7	2244.3	2327.7	2378.5	2603.3	2898.8	3284.9	3734.5	4037.3
17.5°	2306.0	2296.9	2240.7	2240.7	2309.6	2351.3	2548.9	2840.8	3248.7	3776.2	4155.1
20°	2409.3	2394.8	2302.4	2295.1	2362.2	2405.7	2581.5	2844.4	3255.9	3854.2	4312.8
22.5°	2539.8	2523.5	2383.9	2387.6	2460.1	2503.6	2675.8	2909.7	3301.3	3950.3	4481.4
25°	2710.3	2692.1	2527.2	2519.9	2596.0	2634.1	2815.4	3025.7	3364.7	4069.9	4702.6
27.5°	2936.9	2898.8	2701.2	2690.3	2771.9	2820.8	2984.0	3181.6	3477.1	4234.9	4999.9
30°	3123.6	3081.9	2893.4	2864.3	2951.4	2989.4	3158.0	3391.9	3698.3	4523.1	5411.4
32.5°	3368.3	3306.7	3085.5	3009.4	3101.8	3150.8	3410.0	3783.5	4026.4	4827.7	5900.9
35°	3919.4	3881.4	3611.3	3344.8	3339.3	3401.0	3781.7	4178.7	4363.6	5302.7	6568.1
37.5°	4708.0	4680.9	4394.4	4037.3	3933.9	3904.9	4233.1	4613.8	4902.0	5955.3	7344.0
40°	5623.6	5560.1	5297.2	4994.5	4860.3	4775.1	4766.1	5261.0	5605.4	6841.8	8152.5
42.5°	6279.8	6163.8	5844.7	5823.0	5794.0	5705.1	5447.7	6207.3	6513.7	7795.4	9017.3
45°	6968.7	6792.9	6317.9	6236.3	6225.4	6220.0	6477.4	7327.7	7503.5	8828.7	9905.6
47.5°	7503.5	7363.9	6974.1	6937.9	6983.2	7106.5	7838.9	8516.9	8480.7	9749.7	10650.7
50°	8216.0	8110.8	7677.5	7746.4	7980.3	8181.5	9374.4	9813.1	9283.8	10474.8	11192.7
52.5°	9057.1	8863.2	8460.7	8647.4	9006.4	9341.8	11004.2	10948.0	9847.6	11020.5	11597.0
55°	9785.9	9648.1	9510.4	9704.3	10241.0	10659.7	12476.2	11798.2	10257.3	11459.2	11774.7
57.5°	11018.7	10986.0	10844.6	11042.2	11693.1	12128.2	13794.2	12458.1	10520.1	11687.6	11566.2
60°	12842.4	12789.9	12527.0	12779.0	13627.4	14310.9	15008.8	13050.9	10580.0	11598.8	10966.1
62.5°	15036.0	14856.5	14631.8	15003.4	16167.3	16468.2	16152.8	13402.6	10357.0	10891.8	9519.4
65°	17084.6	16899.7	16905.1	17688.3	18955.5	19160.3	17487.0	13350.0	9704.3	9120.6	7021.3
67.5°	18652.7	18621.9	18843.1	20371.3	22028.3	21886.9	18679.9	12563.3	7770.0	5911.8	3730.9
70°	18732.5	18792.3	19426.8	22006.5	23688.9	23464.1	18578.4	10212.0	4844.0	2719.3	1470.2
71°	17768.0	18170.5	19047.9	21955.8	23786.8	23494.9	17722.7	8553.2	3553.2	1896.3	1060.5
72.5°	15141.2	15353.3	17249.5	20663.2	23012.7	22389.1	15552.7	5995.2	2275.2	1160.2	609.1
75°	8339.2	8861.4	11551.7	16210.8	18406.2	17858.7	10135.8	2848.0	1134.9	634.5	252.0
77.5°	3970.2	3868.7	5636.2	9640.9	12479.9	12450.9	5106.9	1265.4	661.7	429.7	126.9
80°	1134.9	1276.3	2157.3	4583.0	6928.8	7005.0	1961.5	610.9	458.7	335.4	65.3
82.5°	342.6	349.9	792.2	2026.8	3446.3	3248.7	736.0	311.8	329.9	266.5	38.1
85°	59.8	74.3	233.9	714.3	1314.3	997.1	184.9	148.7	217.5	175.8	21.8
87.5°	3.6	5.4	78.0	81.6	116.0	67.1	32.6	21.8	47.1	47.1	12.7
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°	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0	3798.0
2.5°	3810.7	3821.5	3814.3	3798.0	3770.8	3738.2	3694.6	3658.4	3627.6	3611.3	3631.2
5°	3834.2	3848.7	3812.5	3730.9	3607.6	3473.5	3321.2	3203.4	3110.9	3081.9	3071.0
7.5°	3870.5	3879.6	3781.7	3600.4	3339.3	3022.1	2744.7	2510.8	2329.6	2275.2	2195.4
10°	3917.6	3912.2	3727.3	3390.1	2931.4	2454.6	2025.0	1705.9	1464.8	1377.8	1370.5
12.5°	3990.1	3961.1	3658.4	3103.6	2445.6	1821.9	1290.8	1009.8	857.5	806.7	795.9
15°	4080.8	4011.9	3549.6	2768.3	1872.7	1176.6	795.9	710.6	690.7	687.1	683.5
17.5°	4187.8	4079.0	3406.4	2356.7	1316.2	763.2	665.3	663.5	665.3	661.7	659.9
20°	4332.8	4149.7	3236.0	1869.1	870.2	643.6	634.5	634.5	636.3	634.5	634.5
22.5°	4486.9	4233.1	3025.7	1426.7	656.3	610.9	609.1	612.8	616.4	614.6	614.6
25°	4677.2	4341.8	2748.3	977.1	587.4	583.7	585.6	592.8	600.1	601.9	600.1
27.5°	4952.8	4476.0	2451.0	672.6	538.4	542.1	560.2	578.3	589.2	591.0	591.0
30°	5262.8	4624.7	2063.1	545.7	498.5	498.5	520.3	554.7	578.3	581.9	583.7
32.5°	5661.6	4796.9	1633.4	491.3	460.5	456.8	476.8	518.5	562.0	574.7	574.7
35°	6154.7	4999.9	1214.6	456.8	433.3	424.2	435.1	469.5	525.7	562.0	565.6
37.5°	6733.0	5192.1	888.3	426.0	407.9	395.2	402.5	429.7	475.0	529.4	543.9
40°	7267.8	5362.5	663.5	400.6	382.5	373.5	378.9	391.6	429.7	480.4	489.5
42.5°	7851.6	5494.8	527.5	373.5	357.1	353.5	353.5	359.0	384.3	413.3	415.1
45°	8433.5	5542.0	442.3	340.8	329.9	333.6	331.8	328.1	339.0	335.4	335.4
47.5°	8848.7	5485.8	366.2	310.0	310.0	315.4	306.4	293.7	288.2	266.5	268.3
50°	9133.3	5280.9	300.9	273.7	288.2	295.5	277.4	257.4	237.5	213.9	208.5
52.5°	9251.1	4916.5	246.6	226.6	255.6	264.7	242.9	219.4	188.5	168.6	163.2
55°	9175.0	4466.9	204.9	184.9	215.7	226.6	204.9	177.7	143.2	121.5	117.8
57.5°	8839.6	3930.3	174.0	146.8	172.2	179.5	165.0	136.0	101.5	79.8	79.8
60°	8259.5	3375.6	141.4	116.0	128.7	139.6	125.1	97.9	68.9	48.9	45.3
62.5°	7082.9	2741.1	114.2	90.6	90.6	99.7	87.0	70.7	43.5	25.4	23.6
65°	5114.1	1880.0	90.6	67.1	65.3	65.3	54.4	47.1	25.4	10.9	7.3
67.5°	2779.1	1060.5	72.5	50.8	45.3	43.5	34.4	27.2	10.9	1.8	0.0
70°	1093.2	407.9	56.2	34.4	29.0	27.2	18.1	12.7	7.3	0.0	0.0
71°	741.5	281.0	48.9	29.0	23.6	19.9	14.5	10.9	5.4	0.0	0.0
72.5°	424.2	174.0	38.1	21.8	18.1	14.5	10.9	7.3	5.4	0.0	0.0
75°	184.9	88.8	23.6	16.3	12.7	9.1	7.3	5.4	1.8	0.0	0.0
77.5°	94.3	48.9	16.3	12.7	7.3	5.4	3.6	1.8	0.0	0.0	0.0
80°	52.6	25.4	10.9	7.3	5.4	3.6	1.8	1.8	0.0	0.0	0.0
82.5°	29.0	14.5	5.4	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.1	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	3.6	0.0	0.0	0.0	0.0	1.8	1.8	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)