

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: P455174

Luminaire Tested: **GALN-SA6B-750-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455174  
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-SA6B-750-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 5000K, 800mA 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: 24297 lumens  
Efficiency: N/A  
Efficacy: 100.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

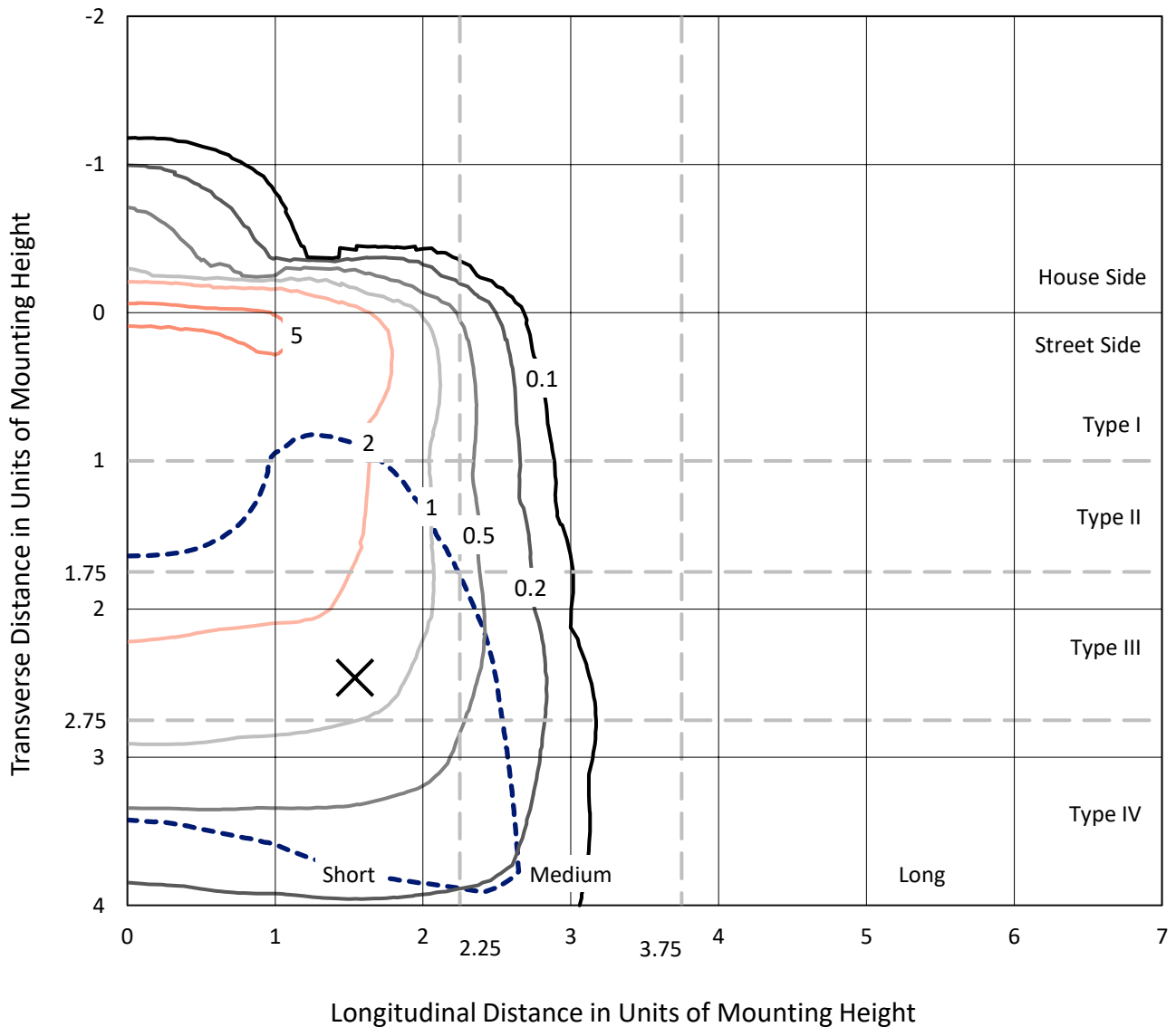
Input Watts (W): 243  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

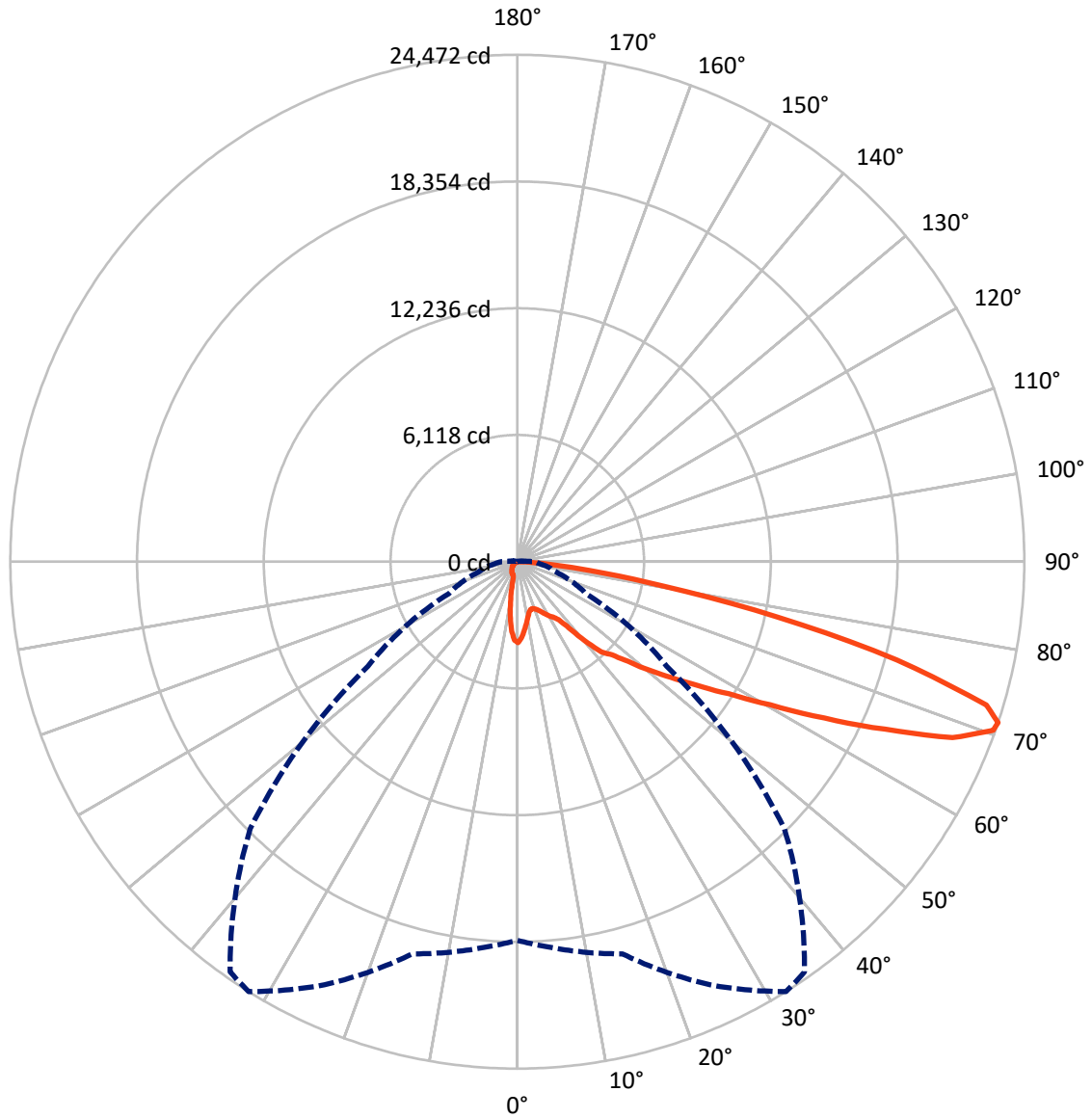
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 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	2035.1	0.0	2035.1
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	22261.9	0.0	22261.9
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	24297.0	0.0	24297.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.7	1.3
10°-20°	689.6	2.8
20°-30°	1072.7	4.4
30°-40°	1787.2	7.4
40°-50°	3324.4	13.7
50°-60°	5337.5	22.0
60°-70°	7179.2	29.5
70°-80°	4259.5	17.5
80°-90°	329.2	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°	24297.0	100.0
0°-180°	24297.0	100.0

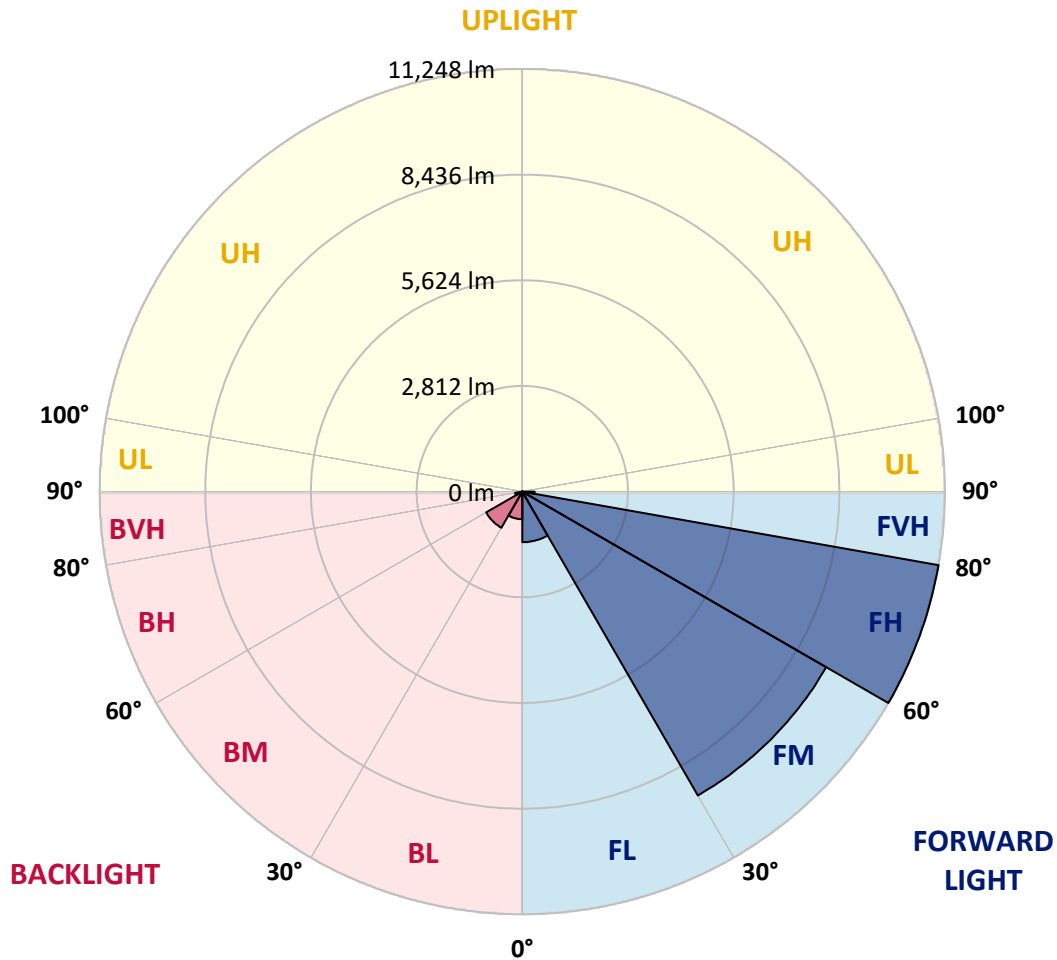


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1346.7	5.5			
FM (30°-60°)	9338.9	38.4			
FH (60°-80°)	11248.3	46.3			G4/12000
FVH (80°-90°)	328.0	1.3			G3/500
BL (0°-30°)	733.3	3.0	B2/1000		
BM (30°-60°)	1110.2	4.6	B2/2500		
BH (60°-80°)	190.4	0.8	B1/500		G1/500
BVH (80°-90°)	1.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3
2.5°	3623.8	3661.1	3655.6	3668.6	3700.3	3713.4	3748.8	3788.0	3842.1	3879.4	3903.6
5°	3245.2	3273.2	3276.9	3342.2	3373.9	3409.4	3513.8	3627.6	3754.4	3855.1	3922.3
7.5°	2840.5	2855.4	2885.3	2971.1	3051.3	3086.7	3245.2	3442.9	3642.5	3830.9	3952.1
10°	2506.7	2523.4	2577.5	2668.9	2743.5	2790.2	3010.2	3258.3	3538.1	3817.8	3995.0
12.5°	2316.4	2325.8	2346.3	2428.3	2523.4	2573.8	2810.7	3094.2	3454.1	3823.4	4067.7
15°	2303.4	2299.6	2275.4	2309.0	2394.8	2447.0	2678.3	2982.3	3379.5	3842.1	4153.5
17.5°	2372.4	2363.1	2305.2	2305.2	2376.1	2419.0	2622.3	2922.6	3342.2	3885.0	4274.8
20°	2478.7	2463.8	2368.6	2361.2	2430.2	2475.0	2655.9	2926.3	3349.7	3965.2	4437.0
22.5°	2613.0	2596.2	2452.6	2456.3	2530.9	2575.7	2752.9	2993.4	3396.3	4064.0	4610.5
25°	2788.3	2769.6	2599.9	2592.5	2670.8	2710.0	2896.5	3112.8	3461.6	4187.1	4838.0
27.5°	3021.4	2982.3	2779.0	2767.8	2851.7	2902.1	3069.9	3273.2	3577.2	4356.8	5143.9
30°	3213.5	3170.6	2976.7	2946.8	3036.3	3075.5	3249.0	3489.6	3804.8	4653.4	5567.3
32.5°	3465.3	3401.9	3174.4	3096.0	3191.1	3241.5	3508.2	3892.4	4142.3	4966.7	6070.8
35°	4032.3	3993.1	3715.2	3441.1	3435.5	3498.9	3890.6	4299.0	4489.2	5455.4	6757.2
37.5°	4843.6	4815.6	4520.9	4153.5	4047.2	4017.4	4355.0	4746.6	5043.2	6126.8	7555.4
40°	5785.5	5720.2	5449.8	5138.3	5000.3	4912.6	4903.3	5412.5	5766.8	7038.8	8387.3
42.5°	6460.6	6341.3	6013.0	5990.6	5960.8	5869.4	5604.6	6386.0	6701.2	8019.8	9276.9
45°	7169.4	6988.4	6499.8	6415.9	6404.7	6399.1	6663.9	7538.6	7719.6	9082.9	10190.8
47.5°	7719.6	7575.9	7175.0	7137.7	7184.3	7311.1	8064.6	8762.1	8724.8	10030.4	10957.3
50°	8452.5	8344.4	7898.6	7969.5	8210.1	8417.1	9644.3	10095.7	9551.1	10776.4	11515.0
52.5°	9317.9	9118.4	8704.3	8896.4	9265.7	9610.7	11321.0	11263.2	10131.1	11337.8	11930.9
55°	10067.7	9925.9	9784.2	9983.8	10535.8	10966.7	12835.5	12137.9	10552.6	11789.2	12113.7
57.5°	11335.9	11302.4	11156.9	11360.2	12029.7	12477.4	14191.4	12816.8	10823.0	12024.2	11899.2
60°	13212.2	13158.1	12887.7	13146.9	14019.8	14722.9	15441.0	13426.7	10884.6	11932.8	11281.9
62.5°	15469.0	15284.3	15053.0	15435.4	16632.8	16942.4	16617.8	13788.5	10655.2	11205.4	9793.5
65°	17576.5	17386.3	17391.8	18197.6	19501.2	19712.0	17990.5	13734.4	9983.8	9383.2	7223.4
67.5°	19189.8	19158.1	19385.6	20957.9	22662.6	22517.1	19217.8	12925.0	7993.7	6082.0	3838.3
70°	19271.8	19333.4	19986.2	22640.2	24371.0	24139.7	19113.3	10506.0	4983.5	2797.6	1512.6
71°	18279.6	18693.7	19596.4	22588.0	24471.7	24171.4	18233.0	8799.4	3655.6	1950.9	1091.1
72.5°	15577.1	15795.3	17746.2	21258.2	23675.3	23033.7	16000.5	6167.8	2340.7	1193.6	626.7
75°	8579.4	9116.5	11884.3	16677.5	18936.1	18372.9	10427.6	2930.0	1167.5	652.8	259.2
77.5°	4084.5	3980.1	5798.5	9918.5	12839.2	12809.4	5253.9	1301.8	680.8	442.0	130.6
80°	1167.5	1313.0	2219.4	4714.9	7128.3	7206.7	2018.0	628.5	471.9	345.0	67.1
82.5°	352.5	360.0	815.0	2085.2	3545.5	3342.2	757.2	320.8	339.4	274.2	39.2
85°	61.5	76.5	240.6	734.8	1352.2	1025.8	190.2	152.9	223.8	180.9	22.4
87.5°	3.7	5.6	80.2	83.9	119.4	69.0	33.6	22.4	48.5	48.5	13.1
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°	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3	3907.3
2.5°	3920.4	3931.6	3924.1	3907.3	3879.4	3845.8	3801.0	3763.7	3732.0	3715.2	3735.8
5°	3944.6	3959.6	3922.3	3838.3	3711.5	3573.5	3416.8	3295.6	3200.5	3170.6	3159.4
7.5°	3981.9	3991.3	3890.6	3704.0	3435.5	3109.1	2823.7	2583.1	2396.6	2340.7	2258.6
10°	4030.4	4024.8	3834.6	3487.7	3015.8	2525.3	2083.3	1755.0	1507.0	1417.5	1410.0
12.5°	4105.0	4075.2	3763.7	3193.0	2516.0	1874.4	1327.9	1038.8	882.2	830.0	818.8
15°	4198.3	4127.4	3651.8	2848.0	1926.6	1210.4	818.8	731.1	710.6	706.9	703.1
17.5°	4308.3	4196.4	3504.5	2424.6	1354.0	785.2	684.5	682.6	684.5	680.8	678.9
20°	4457.5	4269.2	3329.2	1922.9	895.2	662.1	652.8	652.8	654.6	652.8	652.8
22.5°	4616.1	4355.0	3112.8	1467.8	675.2	628.5	626.7	630.4	634.1	632.3	632.3
25°	4811.9	4466.9	2827.5	1005.3	604.3	600.6	602.4	609.9	617.3	619.2	617.3
27.5°	5095.4	4604.9	2521.6	691.9	553.9	557.7	576.3	595.0	606.2	608.0	608.0
30°	5414.3	4757.8	2122.5	561.4	512.9	512.9	535.3	570.7	595.0	598.7	600.6
32.5°	5824.6	4935.0	1680.4	505.4	473.7	470.0	490.5	533.4	578.2	591.2	591.2
35°	6331.9	5143.9	1249.6	470.0	445.8	436.4	447.6	483.1	540.9	578.2	581.9
37.5°	6926.9	5341.6	913.9	438.3	419.6	406.6	414.0	442.0	488.7	544.6	559.5
40°	7477.1	5516.9	682.6	412.2	393.5	384.2	389.8	402.9	442.0	494.2	503.6
42.5°	8077.7	5653.0	542.7	384.2	367.4	363.7	363.7	369.3	395.4	425.2	427.1
45°	8676.3	5701.5	455.1	350.6	339.4	343.2	341.3	337.6	348.8	345.0	345.0
47.5°	9103.4	5643.7	376.7	318.9	318.9	324.5	315.2	302.1	296.5	274.2	276.0
50°	9396.3	5433.0	309.6	281.6	296.5	304.0	285.4	264.8	244.3	220.1	214.5
52.5°	9517.5	5058.1	253.7	233.1	263.0	272.3	249.9	225.7	194.0	173.5	167.9
55°	9439.2	4595.6	210.8	190.2	221.9	233.1	210.8	182.8	147.3	125.0	121.2
57.5°	9094.1	4043.5	179.0	151.1	177.2	184.6	169.7	139.9	104.4	82.1	82.1
60°	8497.3	3472.8	145.5	119.4	132.4	143.6	128.7	100.7	70.9	50.4	46.6
62.5°	7286.9	2820.0	117.5	93.3	93.3	102.6	89.5	72.7	44.8	26.1	24.2
65°	5261.4	1934.1	93.3	69.0	67.1	67.1	56.0	48.5	26.1	11.2	7.5
67.5°	2859.2	1091.1	74.6	52.2	46.6	44.8	35.4	28.0	11.2	1.9	0.0
70°	1124.6	419.6	57.8	35.4	29.8	28.0	18.7	13.1	7.5	0.0	0.0
71°	762.8	289.1	50.4	29.8	24.2	20.5	14.9	11.2	5.6	0.0	0.0
72.5°	436.4	179.0	39.2	22.4	18.7	14.9	11.2	7.5	5.6	0.0	0.0
75°	190.2	91.4	24.2	16.8	13.1	9.3	7.5	5.6	1.9	0.0	0.0
77.5°	97.0	50.4	16.8	13.1	7.5	5.6	3.7	1.9	0.0	0.0	0.0
80°	54.1	26.1	11.2	7.5	5.6	3.7	1.9	1.9	0.0	0.0	0.0
82.5°	29.8	14.9	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.7	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	3.7	0.0	0.0	0.0	0.0	1.9	1.9	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)