

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: P454217

Luminaire Tested: **GALN-SA5B-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454217  
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-SA5B-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 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: 20519 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

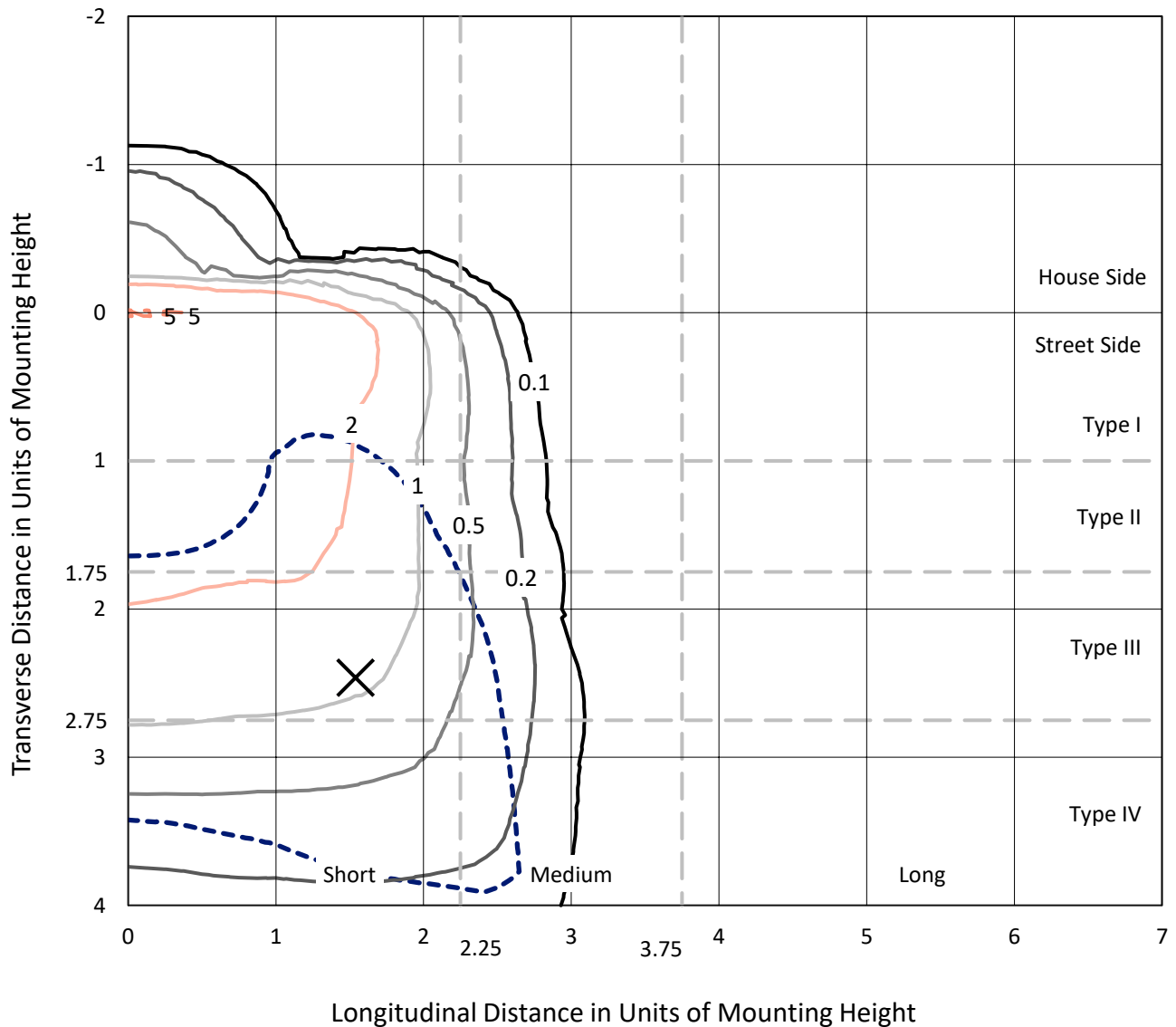
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

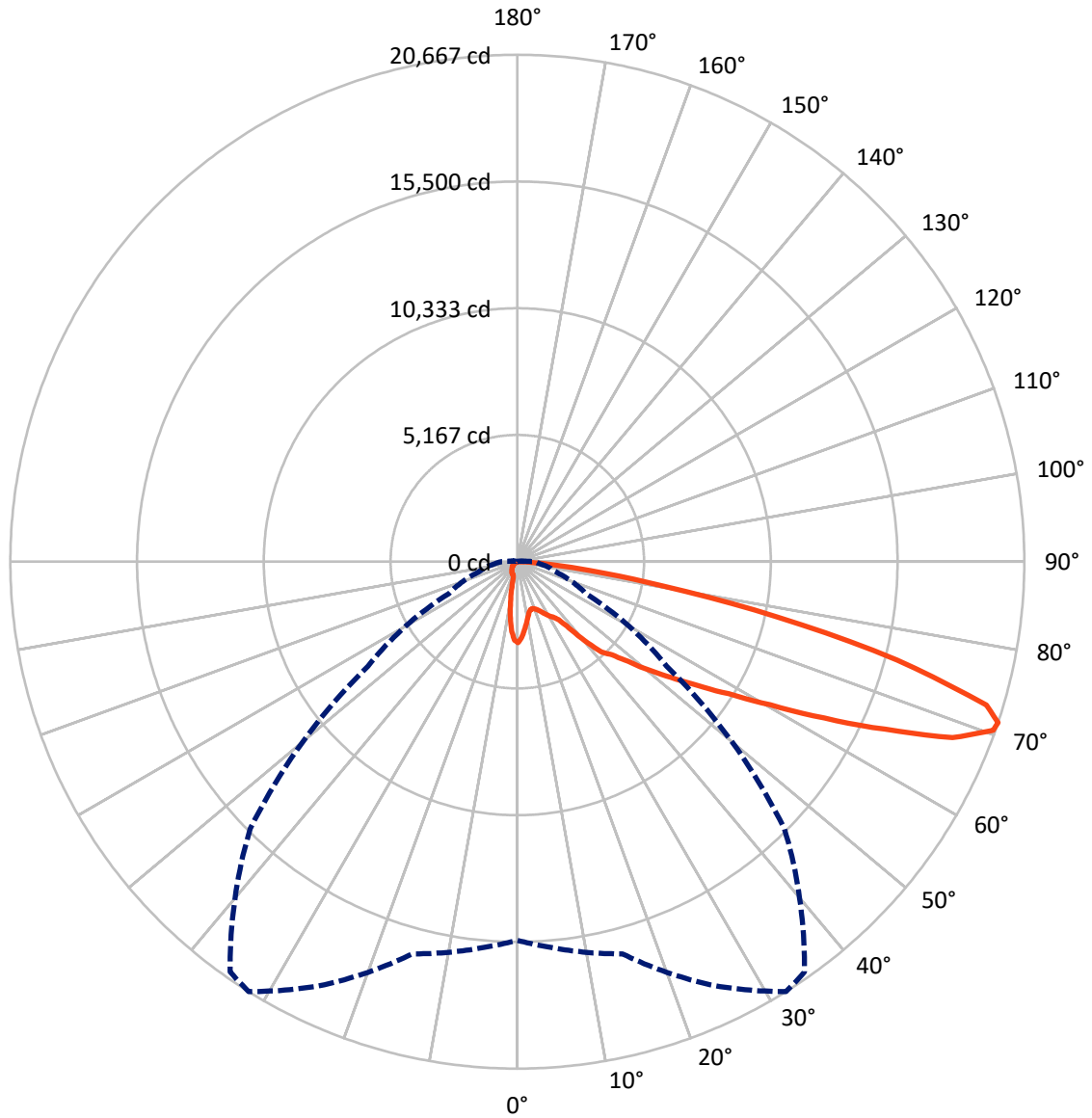
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	1718.7	0.0	1718.7
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	18800.3	0.0	18800.3
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	20519.0	0.0	20519.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	268.3	1.3
10°-20°	582.3	2.8
20°-30°	905.9	4.4
30°-40°	1509.3	7.4
40°-50°	2807.5	13.7
50°-60°	4507.6	22.0
60°-70°	6062.9	29.5
70°-80°	3597.2	17.5
80°-90°	278.1	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°	20519.0	100.0
0°-180°	20519.0	100.0

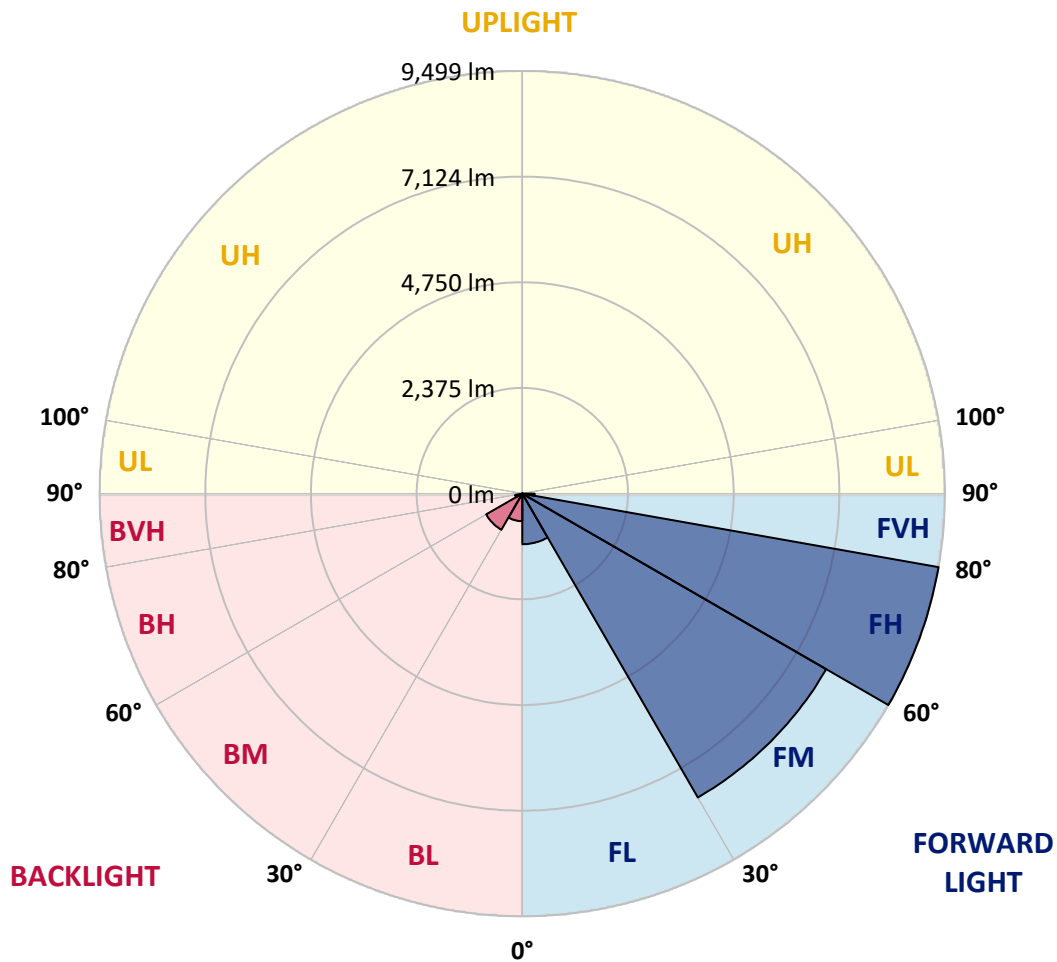


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1137.3	5.5			
FM (30°-60°)	7886.7	38.4			
FH (60°-80°)	9499.3	46.3			G4/12000
FVH (80°-90°)	277.0	1.3			G3/500
BL (0°-30°)	619.3	3.0	B2/1000		
BM (30°-60°)	937.6	4.6	B1/1000		
BH (60°-80°)	160.8	0.8	B1/500		G1/500
BVH (80°-90°)	1.1	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°	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8
2.5°	3060.4	3091.9	3087.1	3098.2	3124.9	3136.0	3165.9	3199.0	3244.6	3276.1	3296.6
5°	2740.6	2764.3	2767.4	2822.5	2849.3	2879.2	2967.4	3063.5	3170.6	3255.7	3312.4
7.5°	2398.8	2411.4	2436.6	2509.1	2576.8	2606.7	2740.6	2907.6	3076.1	3235.2	3337.6
10°	2116.9	2131.1	2176.7	2253.9	2316.9	2356.3	2542.2	2751.7	2987.9	3224.2	3373.8
12.5°	1956.2	1964.1	1981.4	2050.7	2131.1	2173.6	2373.6	2613.0	2917.0	3228.9	3435.2
15°	1945.2	1942.1	1921.6	1949.9	2022.4	2066.5	2261.8	2518.5	2854.0	3244.6	3507.7
17.5°	2003.5	1995.6	1946.8	1946.8	2006.6	2042.9	2214.6	2468.1	2822.5	3280.9	3610.1
20°	2093.3	2080.7	2000.3	1994.0	2052.3	2090.1	2242.9	2471.3	2828.8	3348.6	3747.1
22.5°	2206.7	2192.5	2071.2	2074.4	2137.4	2175.2	2324.8	2528.0	2868.2	3432.1	3893.6
25°	2354.7	2339.0	2195.7	2189.3	2255.5	2288.6	2446.1	2628.8	2923.3	3536.0	4085.7
27.5°	2551.6	2518.5	2346.9	2337.4	2408.3	2450.8	2592.6	2764.3	3021.0	3679.4	4344.0
30°	2713.8	2677.6	2513.8	2488.6	2564.2	2597.3	2743.8	2947.0	3213.1	3929.8	4701.6
32.5°	2926.5	2872.9	2680.8	2614.6	2694.9	2737.5	2962.7	3287.2	3498.2	4194.4	5126.9
35°	3405.3	3372.2	3137.5	2906.0	2901.3	2954.8	3285.6	3630.5	3791.2	4607.1	5706.5
37.5°	4090.5	4066.8	3818.0	3507.7	3417.9	3392.7	3677.8	4008.6	4259.0	5174.1	6380.6
40°	4885.9	4830.7	4602.4	4339.3	4222.8	4148.7	4140.9	4570.9	4870.1	5944.3	7083.1
42.5°	5456.0	5355.2	5078.0	5059.1	5033.9	4956.8	4733.1	5393.0	5659.2	6772.8	7834.4
45°	6054.6	5901.8	5489.1	5418.2	5408.8	5404.1	5627.7	6366.4	6519.2	7670.6	8606.2
47.5°	6519.2	6397.9	6059.3	6027.8	6067.2	6174.3	6810.6	7399.7	7368.2	8470.7	9253.5
50°	7138.2	7046.9	6670.4	6730.3	6933.5	7108.3	8144.7	8525.9	8065.9	9100.8	9724.5
52.5°	7869.1	7700.5	7350.9	7513.1	7825.0	8116.3	9560.7	9511.9	8555.8	9574.9	10075.7
55°	8502.2	8382.5	8262.8	8431.4	8897.6	9261.4	10839.6	10250.6	8911.8	9956.0	10230.1
57.5°	9573.3	9544.9	9422.1	9593.8	10159.2	10537.2	11984.7	10823.9	9140.1	10154.5	10049.0
60°	11157.8	11112.1	10883.7	11102.7	11839.8	12433.6	13040.0	11338.9	9192.1	10077.3	9527.6
62.5°	13063.6	12907.7	12712.4	13035.3	14046.5	14308.0	14033.9	11644.5	8998.4	9463.0	8270.7
65°	14843.5	14682.8	14687.5	15368.0	16469.0	16646.9	15193.1	11598.8	8431.4	7924.2	6100.3
67.5°	16205.9	16179.1	16371.3	17699.1	19138.7	19015.8	16229.5	10915.2	6750.8	5136.3	3241.5
70°	16275.2	16327.2	16878.5	19119.8	20581.5	20386.2	16141.3	8872.4	4208.6	2362.6	1277.4
71°	15437.3	15786.9	16549.3	19075.7	20666.5	20412.9	15397.9	7431.2	3087.1	1647.5	921.4
72.5°	13155.0	13339.3	14986.8	17952.7	19994.0	19452.1	13512.5	5208.8	1976.7	1008.0	529.2
75°	7245.3	7699.0	10036.4	14084.3	15991.7	15516.0	8806.2	2474.4	986.0	551.3	218.9
77.5°	3449.4	3361.2	4896.9	8376.2	10842.8	10817.6	4437.0	1099.4	574.9	373.3	110.3
80°	986.0	1108.9	1874.3	3981.8	6019.9	6086.1	1704.2	530.8	398.5	291.4	56.7
82.5°	297.7	304.0	688.3	1760.9	2994.2	2822.5	639.5	270.9	286.7	231.5	33.1
85°	52.0	64.6	203.2	620.6	1141.9	866.3	160.7	129.2	189.0	152.8	18.9
87.5°	3.2	4.7	67.7	70.9	100.8	58.3	28.4	18.9	41.0	41.0	11.0
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°	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8	3299.8
2.5°	3310.8	3320.3	3314.0	3299.8	3276.1	3247.8	3210.0	3178.5	3151.7	3137.5	3154.9
5°	3331.3	3343.9	3312.4	3241.5	3134.4	3017.8	2885.5	2783.2	2702.8	2677.6	2668.2
7.5°	3362.8	3370.7	3285.6	3128.1	2901.3	2625.6	2384.7	2181.5	2024.0	1976.7	1907.4
10°	3403.7	3399.0	3238.3	2945.4	2546.9	2132.6	1759.4	1482.1	1272.7	1197.1	1190.8
12.5°	3466.7	3441.5	3178.5	2696.5	2124.8	1582.9	1121.5	877.3	745.0	700.9	691.5
15°	3545.5	3485.6	3084.0	2405.1	1627.0	1022.2	691.5	617.4	600.1	597.0	593.8
17.5°	3638.4	3543.9	2959.6	2047.6	1143.5	663.1	578.1	576.5	578.1	574.9	573.3
20°	3764.4	3605.3	2811.5	1623.9	756.0	559.2	551.3	551.3	552.9	551.3	551.3
22.5°	3898.3	3677.8	2628.8	1239.6	570.2	530.8	529.2	532.4	535.5	533.9	533.9
25°	4063.7	3772.3	2387.8	849.0	510.3	507.2	508.7	515.0	521.3	522.9	521.3
27.5°	4303.1	3888.9	2129.5	584.4	467.8	470.9	486.7	502.4	511.9	513.5	513.5
30°	4572.4	4018.0	1792.4	474.1	433.1	433.1	452.0	482.0	502.4	505.6	507.2
32.5°	4918.9	4167.6	1419.1	426.8	400.1	396.9	414.2	450.5	488.3	499.3	499.3
35°	5347.4	4344.0	1055.3	396.9	376.4	368.6	378.0	407.9	456.8	488.3	491.4
37.5°	5849.8	4511.0	771.8	370.1	354.4	343.4	349.7	373.3	412.7	459.9	472.5
40°	6314.5	4659.1	576.5	348.1	332.3	324.5	329.2	340.2	373.3	417.4	425.3
42.5°	6821.6	4774.0	458.3	324.5	310.3	307.1	307.1	311.9	333.9	359.1	360.7
45°	7327.2	4815.0	384.3	296.1	286.7	289.8	288.2	285.1	294.5	291.4	291.4
47.5°	7687.9	4766.2	318.2	269.3	269.3	274.1	266.2	255.2	250.4	231.5	233.1
50°	7935.2	4588.2	261.5	237.8	250.4	256.7	241.0	223.7	206.3	185.9	181.1
52.5°	8037.6	4271.6	214.2	196.9	222.1	230.0	211.1	190.6	163.8	146.5	141.8
55°	7971.4	3881.0	178.0	160.7	187.4	196.9	178.0	154.4	124.4	105.5	102.4
57.5°	7680.1	3414.8	151.2	127.6	149.6	155.9	143.3	118.1	88.2	69.3	69.3
60°	7176.0	2932.8	122.9	100.8	111.8	121.3	108.7	85.1	59.9	42.5	39.4
62.5°	6153.8	2381.5	99.2	78.8	78.8	86.6	75.6	61.4	37.8	22.1	20.5
65°	4443.3	1633.3	78.8	58.3	56.7	56.7	47.3	41.0	22.1	9.5	6.3
67.5°	2414.6	921.4	63.0	44.1	39.4	37.8	29.9	23.6	9.5	1.6	0.0
70°	949.8	354.4	48.8	29.9	25.2	23.6	15.8	11.0	6.3	0.0	0.0
71°	644.2	244.1	42.5	25.2	20.5	17.3	12.6	9.5	4.7	0.0	0.0
72.5°	368.6	151.2	33.1	18.9	15.8	12.6	9.5	6.3	4.7	0.0	0.0
75°	160.7	77.2	20.5	14.2	11.0	7.9	6.3	4.7	1.6	0.0	0.0
77.5°	81.9	42.5	14.2	11.0	6.3	4.7	3.2	1.6	0.0	0.0	0.0
80°	45.7	22.1	9.5	6.3	4.7	3.2	1.6	1.6	0.0	0.0	0.0
82.5°	25.2	12.6	4.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.8	7.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	3.2	0.0	0.0	0.0	0.0	1.6	1.6	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)