

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: P456046

Luminaire Tested: **GALN-SA7B-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456046  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7B-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 26111 lumens  
Efficiency: N/A  
Efficacy: 91.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

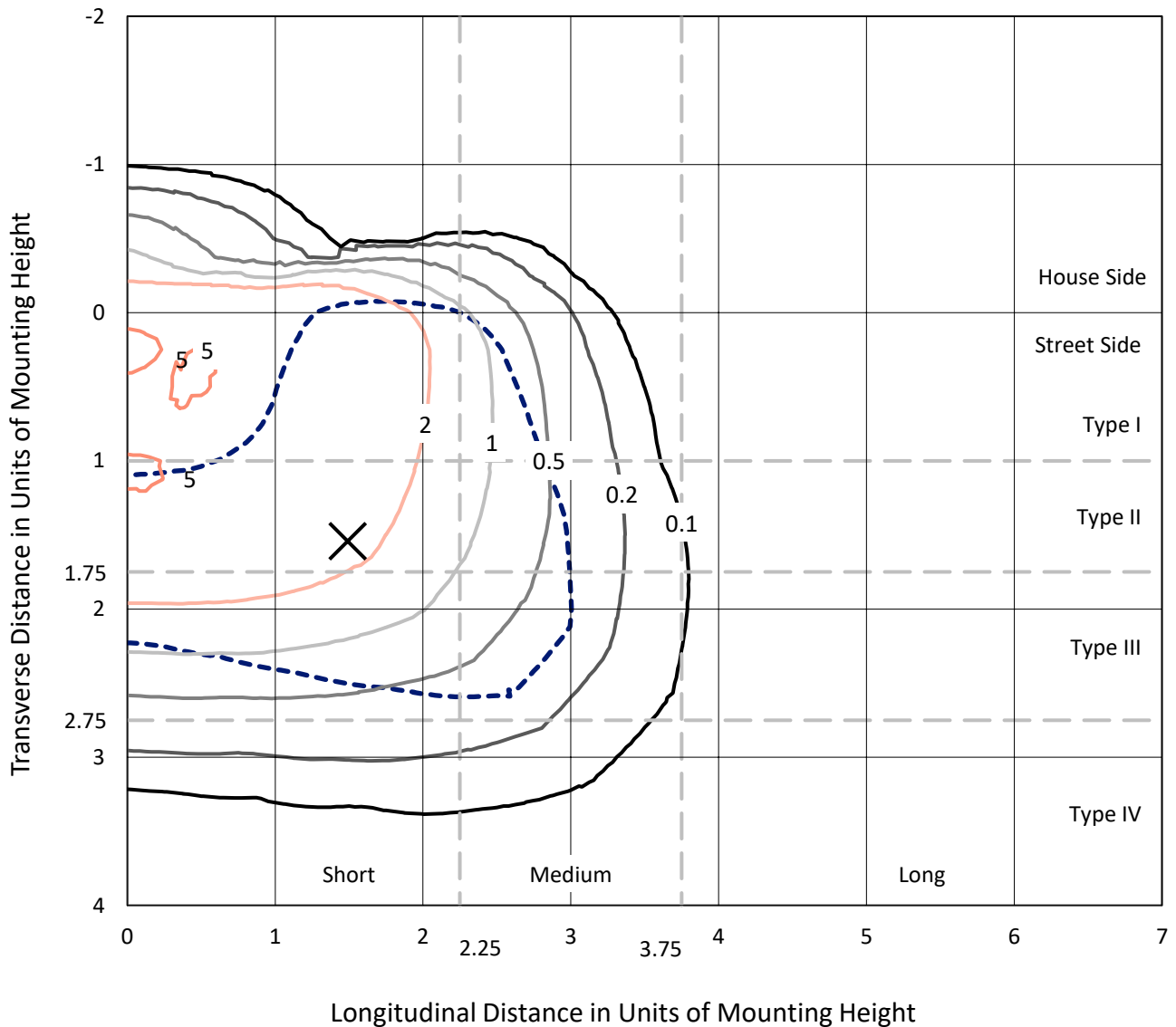
Input Watts (W): 286  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

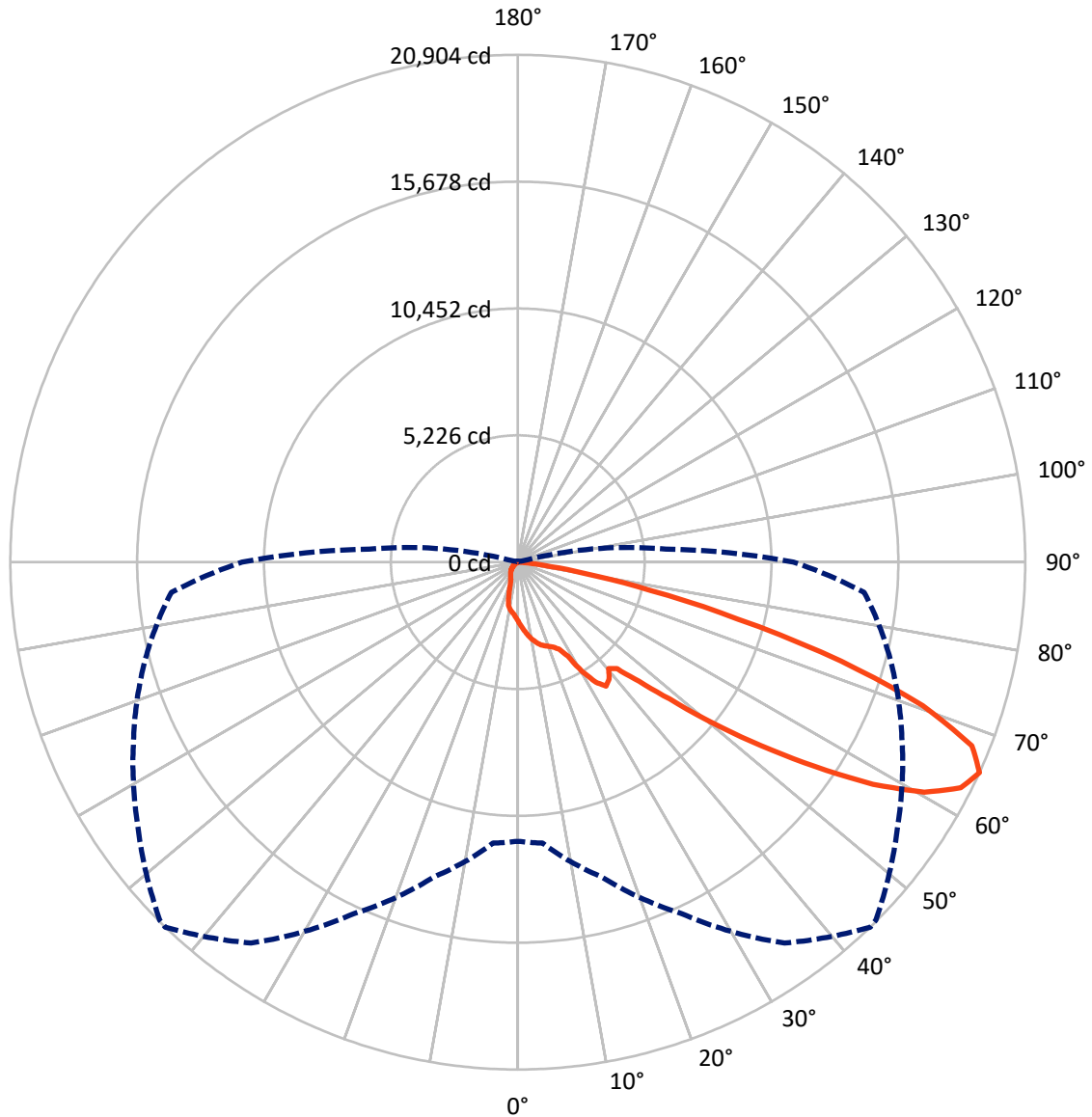
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2405.7	0.0	2405.7
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	23705.3	0.0	23705.3
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	26111.0	0.0	26111.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.7	0.9
10°-20°	727.4	2.8
20°-30°	1233.5	4.7
30°-40°	2050.9	7.9
40°-50°	3580.9	13.7
50°-60°	6995.8	26.8
60°-70°	8116.8	31.1
70°-80°	2955.7	11.3
80°-90°	208.3	0.8
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°	26111.0	100.0
0°-180°	26111.0	100.0



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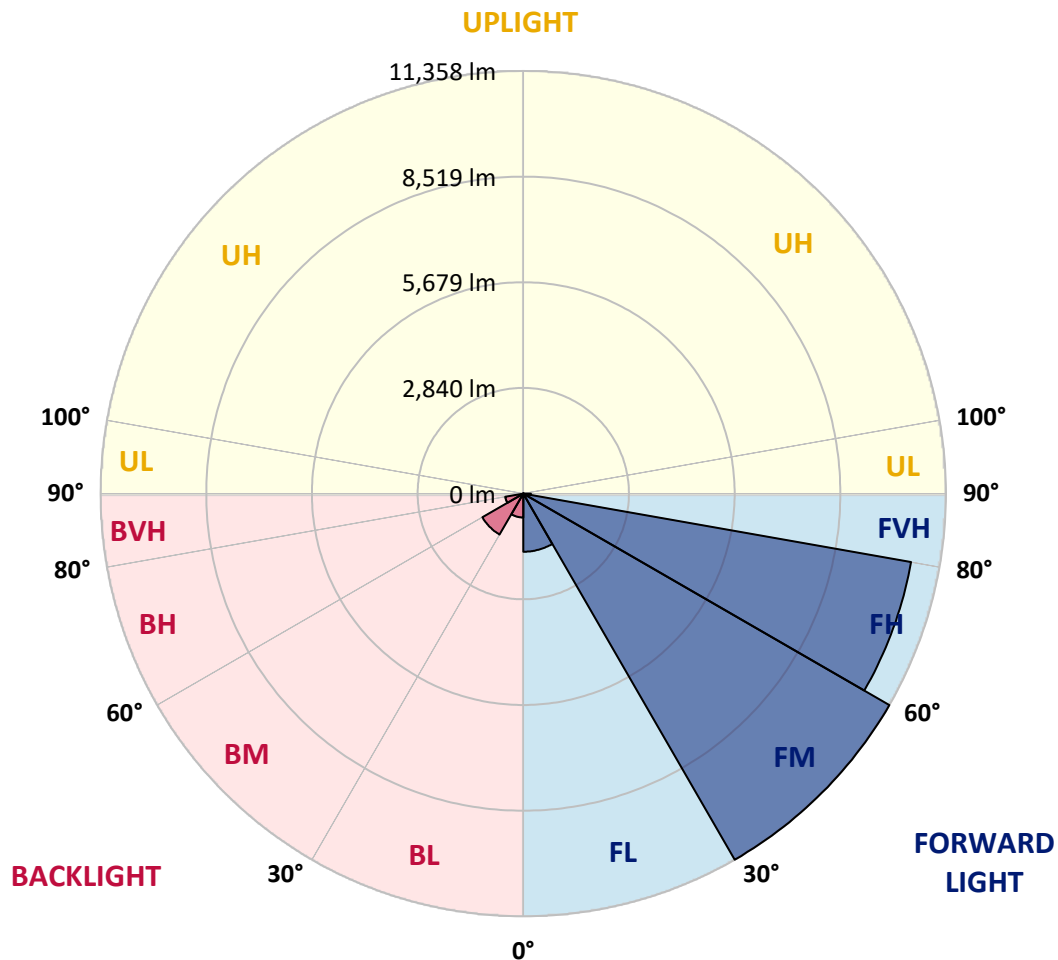
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1561.7	6.0			
FM (30°-60°)	11358.3	43.5			
FH (60°-80°)	10579.8	40.5			G4/12000
FVH (80°-90°)	205.4	0.8			G2/225
BL (0°-30°)	641.0	2.5	B2/1000		
BM (30°-60°)	1269.3	4.9	B2/2500		
BH (60°-80°)	492.7	1.9	B1/500		G1/500
BVH (80°-90°)	2.8	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2
2.5°	2735.4	2723.5	2717.5	2685.5	2661.6	2631.7	2631.7	2593.8	2549.9	2502.0	2458.1
5°	3040.7	3020.7	2994.8	2966.9	2911.0	2831.2	2831.2	2751.4	2659.6	2577.8	2488.0
7.5°	3334.0	3316.0	3272.1	3218.3	3126.5	3042.7	3036.7	2921.0	2811.2	2687.5	2559.8
10°	3591.4	3577.4	3539.5	3435.7	3340.0	3230.2	3228.2	3098.5	2970.9	2819.2	2661.6
12.5°	3770.9	3772.9	3723.0	3623.3	3499.6	3395.8	3387.9	3260.2	3126.5	2962.9	2769.3
15°	3898.6	3898.6	3846.7	3735.0	3623.3	3531.5	3523.5	3411.8	3274.1	3096.6	2887.1
17.5°	3934.5	3946.5	3890.6	3790.9	3701.1	3621.3	3619.3	3525.5	3415.8	3244.2	3006.8
20°	3920.6	3932.5	3888.6	3810.8	3749.0	3703.1	3697.1	3659.2	3557.4	3395.8	3134.5
22.5°	3890.6	3902.6	3870.7	3824.8	3794.9	3808.8	3798.9	3830.8	3776.9	3581.4	3286.1
25°	3896.6	3908.6	3884.7	3858.7	3884.7	3970.5	3996.4	4134.1	4086.2	3816.8	3449.7
27.5°	4084.2	4108.1	4074.2	4086.2	4178.0	4377.5	4427.4	4664.8	4453.3	4116.1	3705.1
30°	4501.2	4485.2	4421.4	4479.2	4798.5	5221.4	5207.5	5169.6	4838.4	4461.3	4008.4
32.5°	4880.3	4866.3	4862.3	5111.7	5690.3	5895.8	5885.8	5518.7	5183.5	4856.3	4307.6
35°	5033.9	4980.0	4968.1	5572.6	6540.3	6268.9	6207.1	5662.4	5602.5	5287.3	4612.9
37.5°	5496.8	5458.9	5273.3	5648.4	6201.1	6111.3	6063.4	5909.8	6049.5	5668.4	4958.1
40°	6450.5	6344.7	6177.1	5810.0	5720.2	5758.2	5806.0	6227.0	6578.2	6189.1	5419.0
42.5°	7635.6	7611.7	7300.4	6616.1	5943.7	5995.6	6057.4	6889.4	7338.4	6973.2	6171.2
45°	9058.2	9092.1	8643.2	7835.2	6953.3	6997.2	7087.0	7867.1	8367.9	8192.3	7354.3
47.5°	10351.1	10325.2	10173.5	9333.6	8519.5	8421.7	8567.4	9122.1	9792.4	9820.4	8822.8
50°	11652.0	11789.6	11564.2	11235.0	10630.4	10424.9	10371.1	10642.4	11663.9	11530.3	10586.5
52.5°	13521.5	13593.3	13170.3	13086.5	13224.2	12557.8	12503.9	12569.8	13483.6	13024.7	11907.4
55°	14696.7	14654.8	14497.1	15151.6	15696.3	14864.3	14796.4	14531.1	14993.9	14080.1	13178.3
57.5°	15067.8	15127.6	15494.7	16677.9	17966.8	17260.5	17136.8	16382.6	16083.3	15063.8	14347.5
60°	14902.2	15011.9	15804.0	17563.8	19351.5	19245.7	19140.0	17873.0	16865.4	15885.8	15167.5
62.5°	13723.0	13876.6	15143.6	17406.1	19820.3	20480.7	20349.1	18802.8	17386.2	16284.8	15311.2
65°	11500.3	11614.1	13433.7	15975.6	19153.9	20903.7	20855.8	19094.1	17468.0	15919.7	14327.5
67.5°	8198.3	8585.4	10271.3	13463.6	17182.7	20181.5	20263.3	18744.9	16699.8	14341.5	11865.5
70°	5153.6	5417.0	6626.1	9638.8	13774.9	17705.4	17974.8	17146.8	14493.1	11179.1	7942.9
72.5°	2458.1	2653.6	3515.5	6101.3	9722.6	13930.5	14144.0	14076.1	11207.0	7043.1	4098.1
75°	1095.4	1169.2	1678.0	3114.5	6276.9	9363.5	9916.2	10007.9	7003.2	3445.7	1594.2
77.5°	558.7	560.7	786.1	1508.4	3134.5	5586.6	5696.3	6017.5	3796.9	1518.3	554.7
80°	297.3	317.2	417.0	712.3	1626.1	2751.4	2737.4	3008.8	1684.0	744.2	185.6
82.5°	133.7	147.6	235.4	373.1	794.1	1043.5	1125.3	1231.0	722.3	474.9	81.8
85°	39.9	47.9	115.7	187.5	287.3	301.3	337.2	435.0	409.0	337.2	41.9
87.5°	6.0	6.0	47.9	51.9	41.9	53.9	55.9	61.9	131.7	123.7	21.9
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°	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2	2430.2
2.5°	2434.1	2420.2	2370.3	2328.4	2292.5	2270.5	2244.6	2228.6	2220.7	2214.7	2216.7
5°	2444.1	2410.2	2324.4	2256.6	2204.7	2148.8	2110.9	2089.0	2079.0	2063.0	2063.0
7.5°	2500.0	2446.1	2326.4	2222.7	2132.9	2057.1	1985.2	1959.3	1941.3	1937.3	1933.4
10°	2579.8	2512.0	2348.4	2204.7	2077.0	1973.3	1871.5	1781.7	1711.9	1670.0	1664.0
12.5°	2679.6	2581.8	2382.3	2192.7	2029.1	1845.6	1576.2	1394.6	1272.9	1235.0	1241.0
15°	2771.3	2665.6	2416.2	2182.8	1941.3	1530.3	1225.1	1017.6	955.7	949.7	951.7
17.5°	2881.1	2755.4	2456.1	2168.8	1699.9	1169.2	909.8	853.9	865.9	885.9	883.9
20°	2994.8	2851.1	2504.0	2085.0	1356.7	879.9	804.1	810.1	828.0	846.0	850.0
22.5°	3116.5	2960.9	2559.8	1883.5	1035.5	766.2	762.2	770.1	788.1	808.1	812.0
25°	3284.1	3098.5	2601.7	1620.1	784.1	708.3	716.3	730.2	746.2	768.2	772.1
27.5°	3499.6	3284.1	2623.7	1276.9	678.4	656.4	658.4	678.4	698.3	718.3	718.3
30°	3778.9	3505.6	2579.8	965.7	626.5	606.5	598.6	610.5	636.5	656.4	658.4
32.5°	4028.3	3715.1	2464.1	738.2	588.6	560.7	540.7	542.7	552.7	564.6	566.6
35°	4277.7	3918.6	2266.5	620.5	548.7	516.8	486.8	470.9	462.9	456.9	462.9
37.5°	4596.9	4172.0	2003.2	564.6	514.8	474.9	433.0	399.0	371.1	353.2	357.1
40°	5008.0	4523.1	1691.9	528.7	482.8	435.0	379.1	335.2	287.3	271.3	263.4
42.5°	5686.3	5055.8	1364.7	498.8	450.9	393.1	323.2	263.4	219.5	203.5	207.5
45°	6757.7	5728.2	1051.5	466.9	419.0	347.2	271.3	207.5	171.6	163.6	167.6
47.5°	8178.3	6598.1	810.1	431.0	379.1	297.3	213.5	163.6	141.7	139.7	137.7
50°	9515.1	7408.2	676.4	391.1	331.2	247.4	175.6	137.7	123.7	121.7	121.7
52.5°	10724.2	7988.8	550.7	345.2	279.3	203.5	147.6	121.7	109.7	103.8	103.8
55°	11799.6	8367.9	446.9	289.3	219.5	161.6	127.7	109.7	95.8	87.8	85.8
57.5°	12611.7	8413.8	335.2	231.4	163.6	125.7	109.7	95.8	79.8	69.8	65.8
60°	12958.8	8016.7	247.4	175.6	121.7	99.8	87.8	77.8	59.9	49.9	47.9
62.5°	12609.7	7244.6	183.6	133.7	93.8	73.8	61.9	57.9	41.9	29.9	27.9
65°	11358.7	6129.3	145.6	101.8	69.8	53.9	39.9	37.9	25.9	14.0	12.0
67.5°	9100.1	4800.5	115.7	75.8	49.9	35.9	25.9	23.9	14.0	4.0	4.0
70°	5917.8	3068.6	93.8	55.9	31.9	23.9	16.0	12.0	8.0	2.0	0.0
72.5°	2927.0	1434.5	75.8	43.9	21.9	12.0	6.0	4.0	6.0	0.0	0.0
75°	1135.3	510.8	55.9	29.9	12.0	6.0	4.0	0.0	2.0	0.0	0.0
77.5°	377.1	169.6	33.9	16.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0
80°	139.7	65.8	18.0	10.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0
82.5°	55.9	25.9	12.0	8.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	27.9	16.0	8.0	6.0	4.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	20.0	12.0	8.0	6.0	4.0	2.0	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)