

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: P455350

Luminaire Tested: **GALN-SA6C-730-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455350  
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-SA6C-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 3000K, 1050mA 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: 27466 lumens  
Efficiency: N/A  
Efficacy: 85.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G4

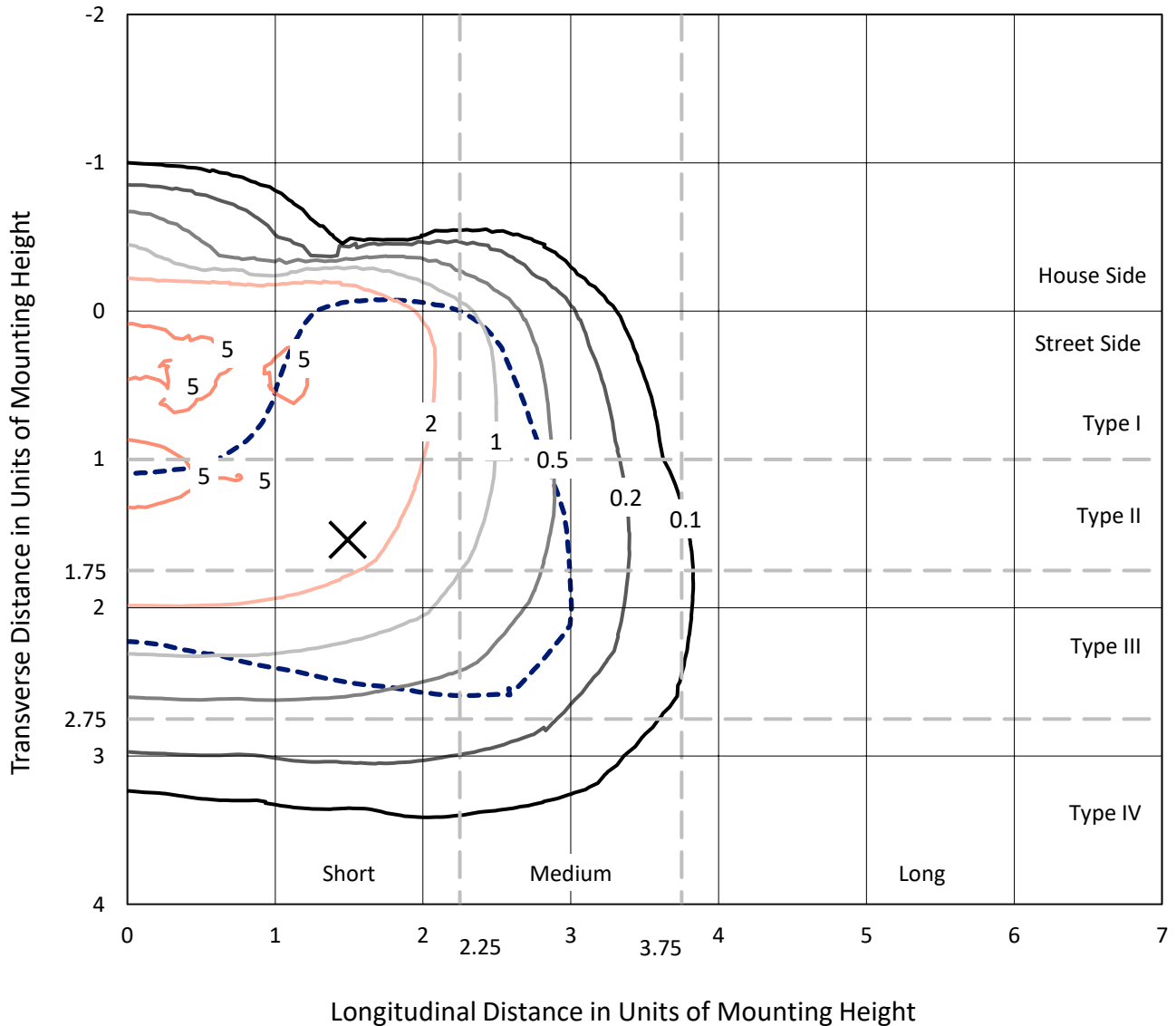
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

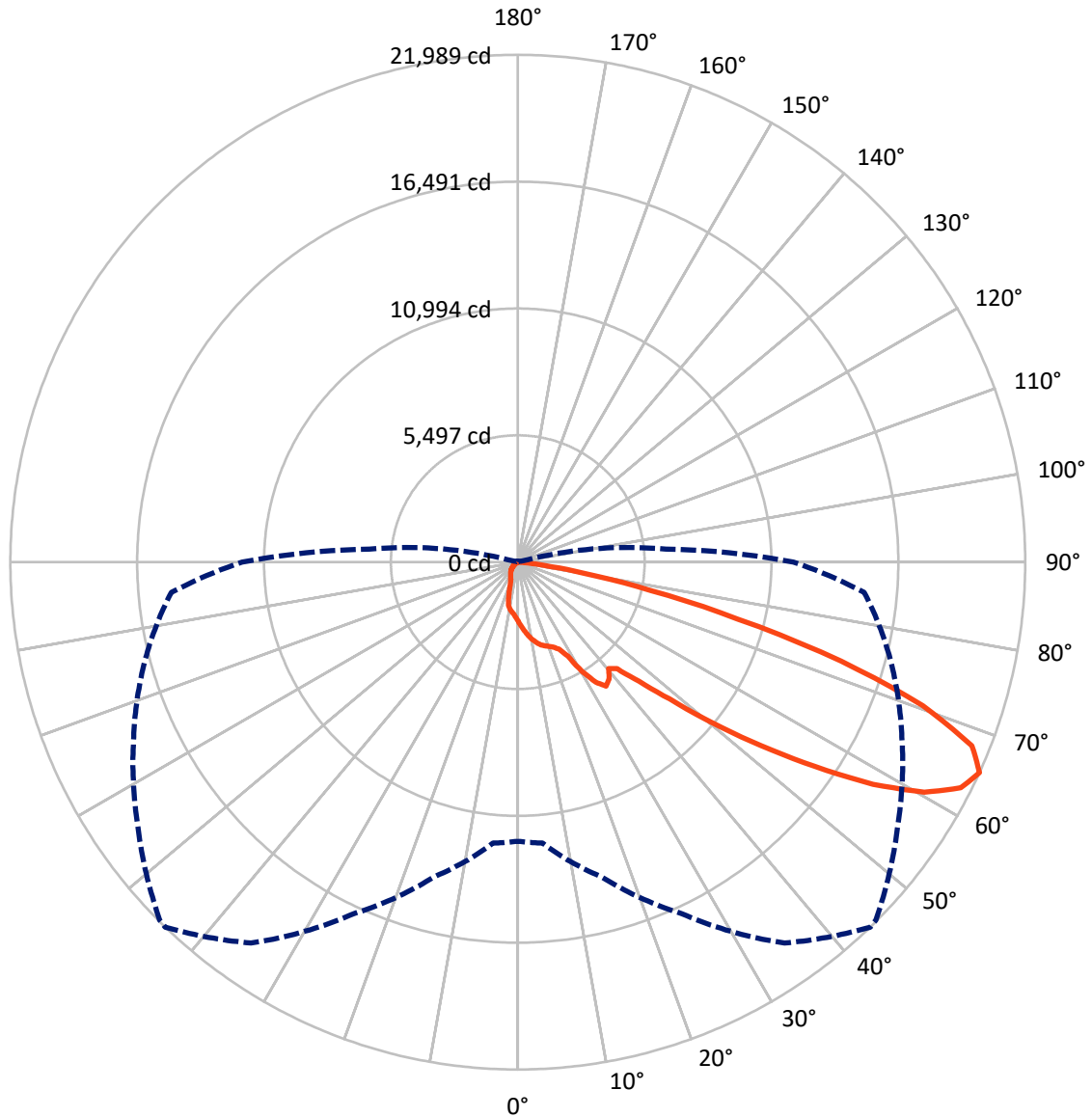
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	2530.6	0.0	2530.6
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	24935.4	0.0	24935.4
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	27466.0	0.0	27466.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.2	0.9
10°-20°	765.2	2.8
20°-30°	1297.5	4.7
30°-40°	2157.3	7.9
40°-50°	3766.7	13.7
50°-60°	7358.8	26.8
60°-70°	8538.0	31.1
70°-80°	3109.1	11.3
80°-90°	219.1	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°	27466.0	100.0
0°-180°	27466.0	100.0

**Coefficient of Utilization**



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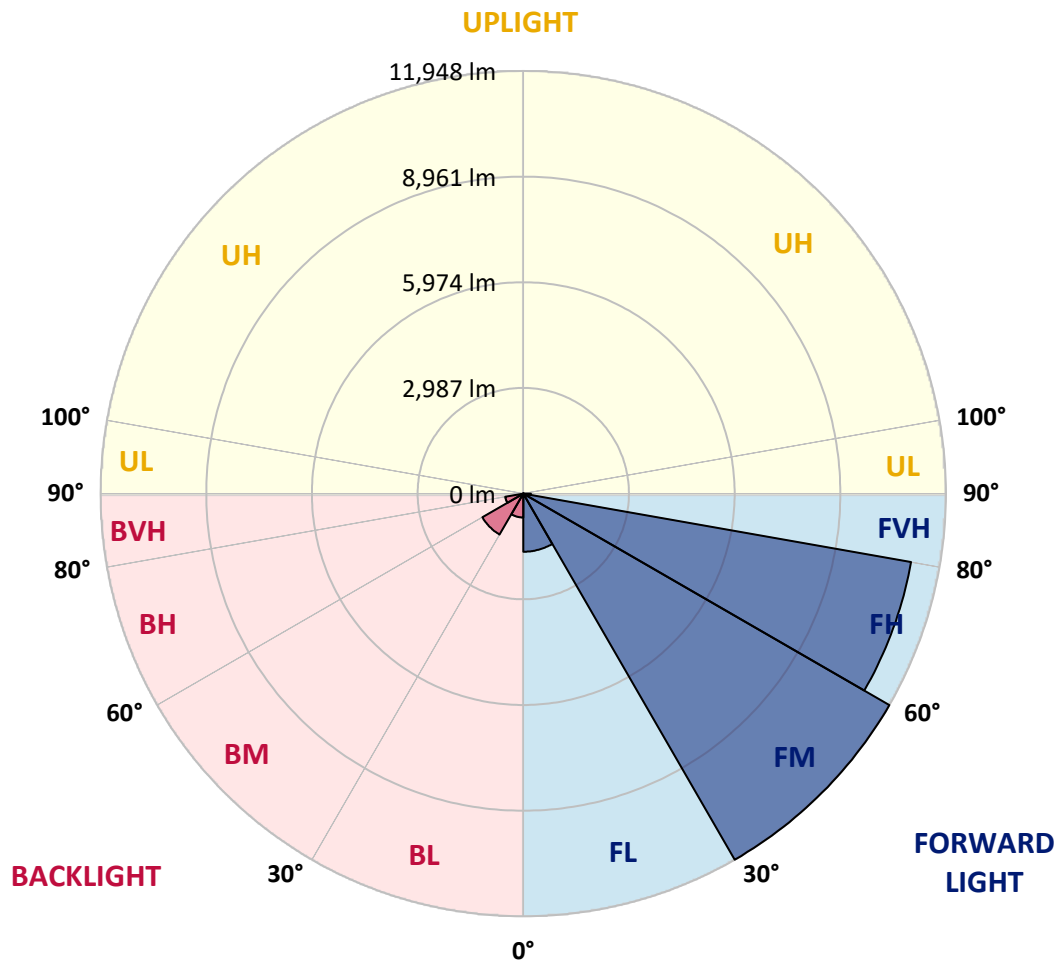
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1642.7	6.0			
FM (30°-60°)	11947.8	43.5			
FH (60°-80°)	11128.9	40.5			G4/12000
FVH (80°-90°)	216.1	0.8			G2/225
BL (0°-30°)	674.2	2.5	B2/1000		
BM (30°-60°)	1335.1	4.9	B2/2500		
BH (60°-80°)	518.2	1.9	B2/1000		G2/1000
BVH (80°-90°)	3.0	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°	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3
2.5°	2877.4	2864.8	2858.5	2824.9	2799.7	2768.2	2768.2	2728.4	2682.2	2631.8	2585.6
5°	3198.5	3177.5	3150.2	3120.8	3062.1	2978.1	2978.1	2894.2	2797.6	2711.6	2617.1
7.5°	3507.0	3488.1	3441.9	3385.3	3288.7	3200.6	3194.3	3072.6	2957.1	2827.0	2692.7
10°	3777.7	3763.0	3723.2	3614.0	3513.3	3397.9	3395.8	3259.3	3125.0	2965.5	2799.7
12.5°	3966.6	3968.7	3916.2	3811.3	3681.2	3572.1	3563.7	3429.3	3288.7	3116.6	2913.1
15°	4100.9	4100.9	4046.4	3928.8	3811.3	3714.8	3706.4	3588.8	3444.0	3257.2	3036.9
17.5°	4138.7	4151.3	4092.5	3987.6	3893.2	3809.2	3807.1	3708.5	3593.0	3412.6	3162.8
20°	4124.0	4136.6	4090.4	4008.6	3943.5	3895.3	3889.0	3849.1	3742.1	3572.1	3297.1
22.5°	4092.5	4105.1	4071.6	4023.3	3991.8	4006.5	3996.0	4029.6	3972.9	3767.2	3456.6
25°	4098.8	4111.4	4086.2	4059.0	4086.2	4176.5	4203.8	4348.6	4298.2	4014.9	3628.7
27.5°	4296.1	4321.3	4285.6	4298.2	4394.8	4604.6	4657.1	4906.9	4684.4	4329.7	3897.4
30°	4734.8	4718.0	4650.8	4711.7	5047.5	5492.4	5477.7	5437.8	5089.4	4692.8	4216.4
32.5°	5133.5	5118.8	5114.6	5377.0	5985.6	6201.8	6191.3	5805.1	5452.5	5108.3	4531.2
35°	5295.1	5238.5	5225.9	5861.8	6879.7	6594.2	6529.2	5956.2	5893.3	5561.7	4852.3
37.5°	5782.0	5742.2	5547.0	5941.5	6522.9	6428.4	6378.1	6216.5	6363.4	5962.5	5215.4
40°	6785.2	6674.0	6497.7	6111.5	6017.1	6057.0	6107.3	6550.2	6919.5	6510.3	5700.2
42.5°	8031.9	8006.7	7679.3	6959.4	6252.1	6306.7	6371.8	7246.9	7719.2	7335.1	6491.4
45°	9528.3	9564.0	9091.7	8241.8	7314.1	7360.3	7454.7	8275.3	8802.1	8617.4	7736.0
47.5°	10888.3	10861.0	10701.5	9817.9	8961.6	8858.8	9012.0	9595.4	10300.6	10330.0	9280.6
50°	12256.6	12401.5	12164.3	11818.0	11182.1	10965.9	10909.3	11194.7	12269.2	12128.6	11135.9
52.5°	14223.2	14298.7	13853.8	13765.6	13910.4	13209.5	13152.8	13222.1	14183.3	13700.6	12525.3
55°	15459.3	15415.2	15249.4	15937.8	16510.8	15635.6	15564.3	15285.1	15772.0	14810.8	13862.2
57.5°	15849.7	15912.6	16298.8	17543.4	18899.2	18156.2	18026.1	17232.8	16917.9	15845.5	15092.0
60°	15675.5	15790.9	16624.1	18475.2	20355.7	20244.4	20133.2	18800.5	17740.7	16710.2	15954.6
62.5°	14435.1	14596.7	15929.4	18309.4	20848.9	21543.6	21405.1	19778.5	18288.4	17129.9	16105.7
65°	12097.1	12216.8	14130.8	16804.6	20147.9	21988.5	21938.1	20084.9	18374.5	16745.8	15071.1
67.5°	8623.7	9030.9	10804.3	14162.3	18074.4	21228.8	21314.8	19717.7	17566.5	15085.7	12481.2
70°	5421.0	5698.1	6969.9	10139.0	14489.7	18624.2	18907.5	18036.6	15245.2	11759.2	8355.1
72.5°	2585.6	2791.3	3698.0	6417.9	10227.2	14653.4	14878.0	14806.6	11788.6	7408.6	4310.8
75°	1152.2	1229.9	1765.0	3276.1	6602.6	9849.4	10430.7	10527.3	7366.6	3624.5	1676.9
77.5°	587.6	589.7	826.9	1586.6	3297.1	5876.5	5991.9	6329.8	3993.9	1597.1	583.4
80°	312.7	333.7	438.6	749.3	1710.5	2894.2	2879.5	3164.9	1771.3	782.8	195.2
82.5°	140.6	155.3	247.7	392.5	835.3	1097.6	1183.7	1294.9	759.7	499.5	86.0
85°	42.0	50.4	121.7	197.3	302.2	316.9	354.7	457.5	430.2	354.7	44.1
87.5°	6.3	6.3	50.4	54.6	44.1	56.7	58.8	65.1	138.5	130.1	23.1
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°	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3	2556.3
2.5°	2560.5	2545.8	2493.3	2449.2	2411.5	2388.4	2361.1	2344.3	2335.9	2329.6	2331.7
5°	2571.0	2535.3	2445.0	2373.7	2319.1	2260.3	2220.5	2197.4	2186.9	2170.1	2170.1
7.5°	2629.7	2573.1	2447.1	2338.0	2243.6	2163.8	2088.2	2061.0	2042.1	2037.9	2033.7
10°	2713.7	2642.3	2470.2	2319.1	2184.8	2075.7	1968.6	1874.2	1800.7	1756.6	1750.3
12.5°	2818.6	2715.8	2505.9	2306.5	2134.4	1941.3	1658.0	1467.0	1339.0	1299.1	1305.4
15°	2915.2	2803.9	2541.6	2296.0	2042.1	1609.7	1288.6	1070.4	1005.3	999.0	1001.1
17.5°	3030.6	2898.4	2583.5	2281.3	1788.1	1229.9	957.0	898.3	910.9	931.8	929.7
20°	3150.2	2999.1	2633.9	2193.2	1427.1	925.5	845.8	852.1	871.0	889.9	894.1
22.5°	3278.2	3114.5	2692.7	1981.2	1089.2	805.9	801.7	810.1	829.0	850.0	854.2
25°	3454.5	3259.3	2736.8	1704.2	824.8	745.1	753.4	768.1	784.9	808.0	812.2
27.5°	3681.2	3454.5	2759.8	1343.2	713.6	690.5	692.6	713.6	734.6	755.5	755.5
30°	3975.0	3687.5	2713.7	1015.8	659.0	638.0	629.6	642.2	669.5	690.5	692.6
32.5°	4237.4	3907.9	2591.9	776.5	619.1	589.7	568.8	570.9	581.4	593.9	596.0
35°	4499.7	4121.9	2384.2	652.7	577.2	543.6	512.1	495.3	486.9	480.6	486.9
37.5°	4835.5	4388.5	2107.1	593.9	541.5	499.5	455.4	419.7	390.4	371.5	375.7
40°	5267.8	4757.8	1779.7	556.2	507.9	457.5	398.8	352.6	302.2	285.4	277.0
42.5°	5981.4	5318.2	1435.5	524.7	474.3	413.5	340.0	277.0	230.9	214.1	218.3
45°	7108.4	6025.5	1106.0	491.1	440.7	365.2	285.4	218.3	180.5	172.1	176.3
47.5°	8602.7	6940.5	852.1	453.3	398.8	312.7	224.6	172.1	149.0	146.9	144.8
50°	10008.9	7792.6	711.5	411.4	348.4	260.2	184.7	144.8	130.1	128.0	128.0
52.5°	11280.7	8403.4	579.3	363.1	293.8	214.1	155.3	128.0	115.4	109.1	109.1
55°	12411.9	8802.1	470.1	304.3	230.9	170.0	134.3	115.4	100.7	92.3	90.2
57.5°	13266.1	8850.4	352.6	243.5	172.1	132.2	115.4	100.7	83.9	73.5	69.3
60°	13631.3	8432.7	260.2	184.7	128.0	104.9	92.3	81.9	63.0	52.5	50.4
62.5°	13264.0	7620.5	193.1	140.6	98.6	77.7	65.1	60.9	44.1	31.5	29.4
65°	11948.1	6447.3	153.2	107.0	73.5	56.7	42.0	39.9	27.3	14.7	12.6
67.5°	9572.4	5049.6	121.7	79.8	52.5	37.8	27.3	25.2	14.7	4.2	4.2
70°	6224.9	3227.9	98.6	58.8	33.6	25.2	16.8	12.6	8.4	2.1	0.0
72.5°	3078.9	1509.0	79.8	46.2	23.1	12.6	6.3	4.2	6.3	0.0	0.0
75°	1194.2	537.3	58.8	31.5	12.6	6.3	4.2	0.0	2.1	0.0	0.0
77.5°	396.7	178.4	35.7	16.8	8.4	4.2	0.0	0.0	0.0	0.0	0.0
80°	146.9	69.3	18.9	10.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	58.8	27.3	12.6	8.4	4.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	29.4	16.8	8.4	6.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	21.0	12.6	8.4	6.3	4.2	2.1	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)