

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: P453477

Luminaire Tested: **GALN-SA4C-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20835 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G4

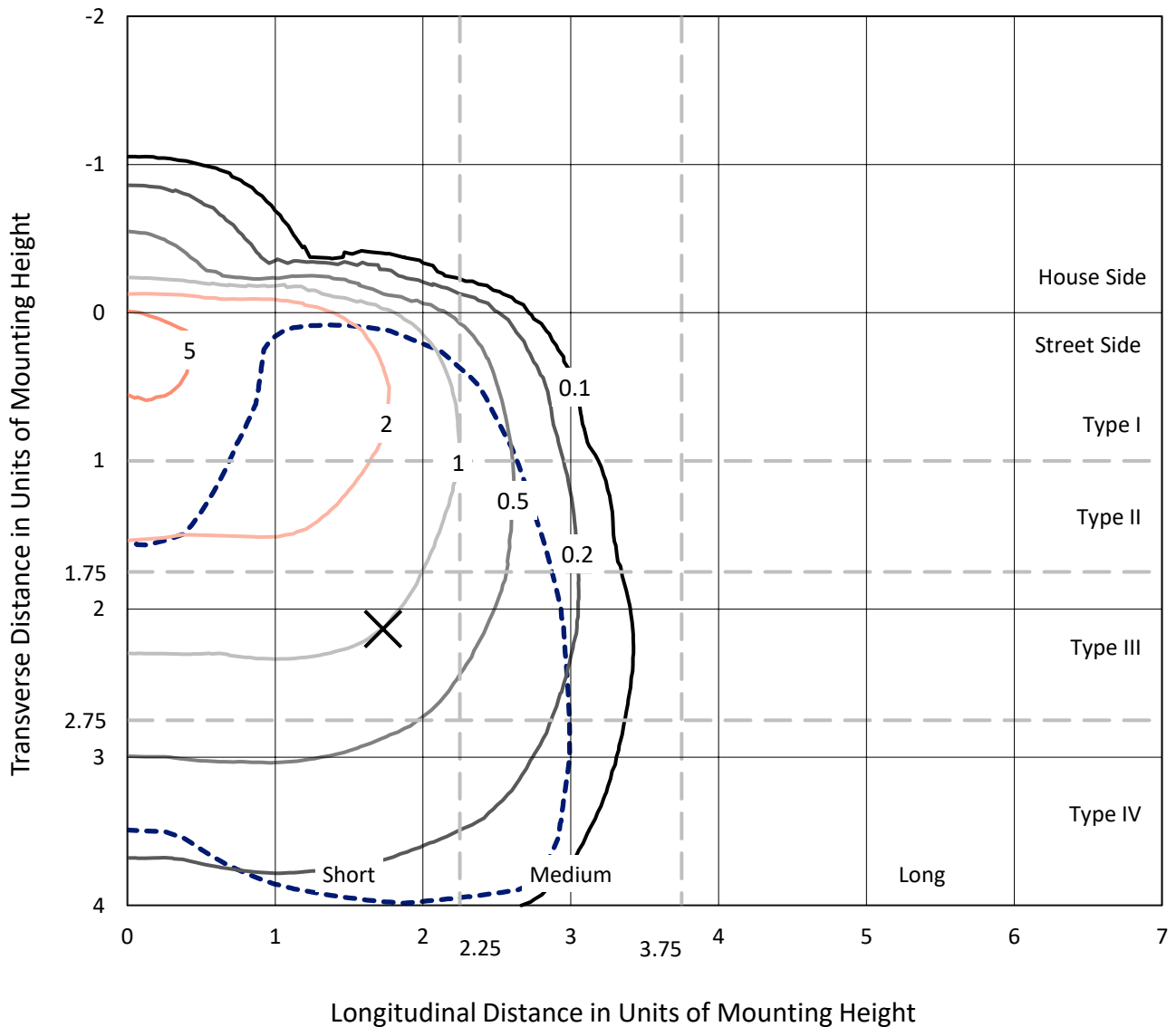
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

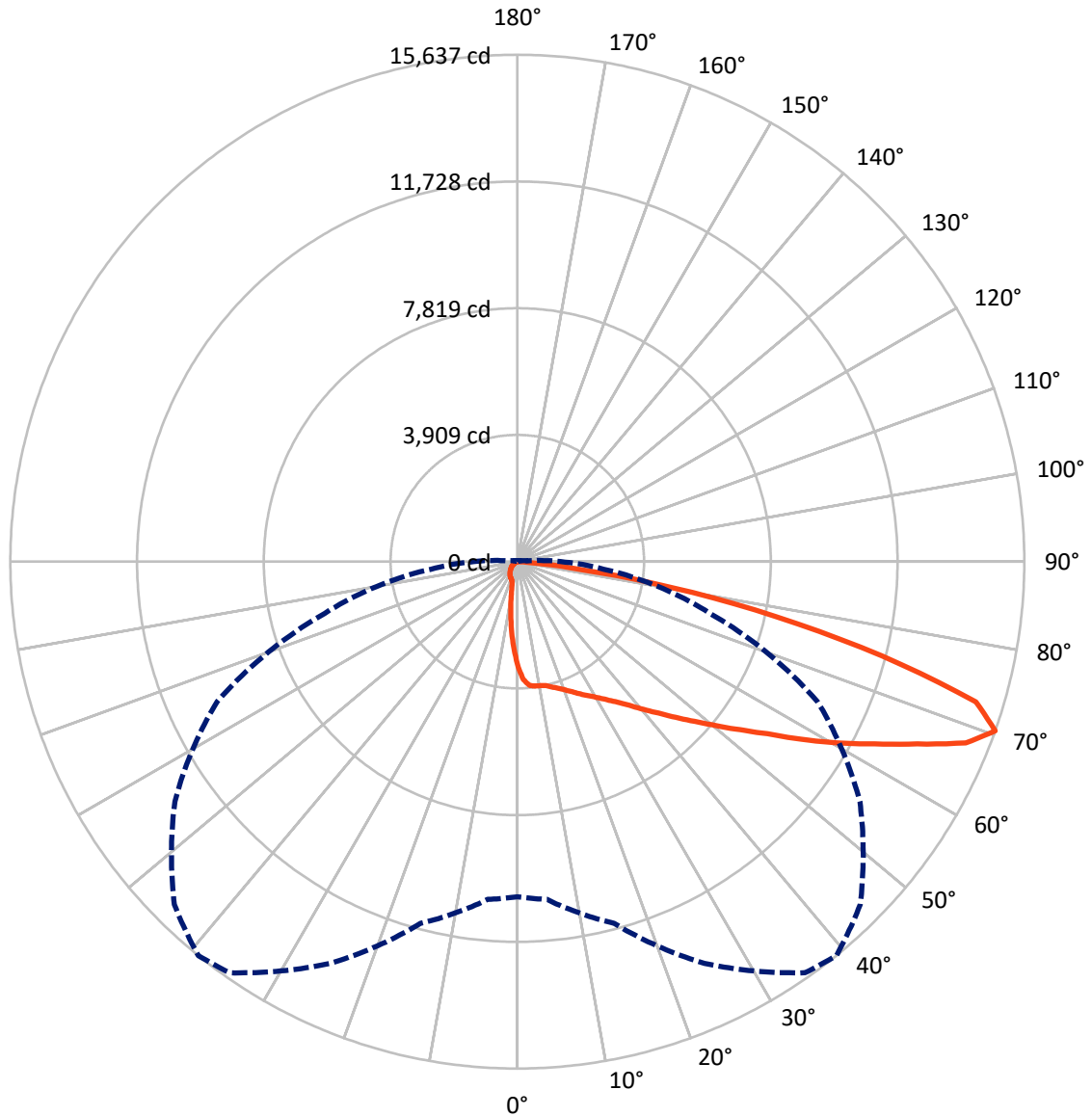
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1358.5	0.0	1358.5
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	19476.4	0.0	19476.4
	% Fixture	93.5	0.0	93.5
Total	Lumens	20835.0	0.0	20835.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.3	1.3
10°-20°	720.6	3.5
20°-30°	1207.2	5.8
30°-40°	1872.2	9.0
40°-50°	2966.8	14.2
50°-60°	4349.0	20.9
60°-70°	5574.3	26.8
70°-80°	3502.7	16.8
80°-90°	364.9	1.8
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°	20835.0	100.0
0°-180°	20835.0	100.0



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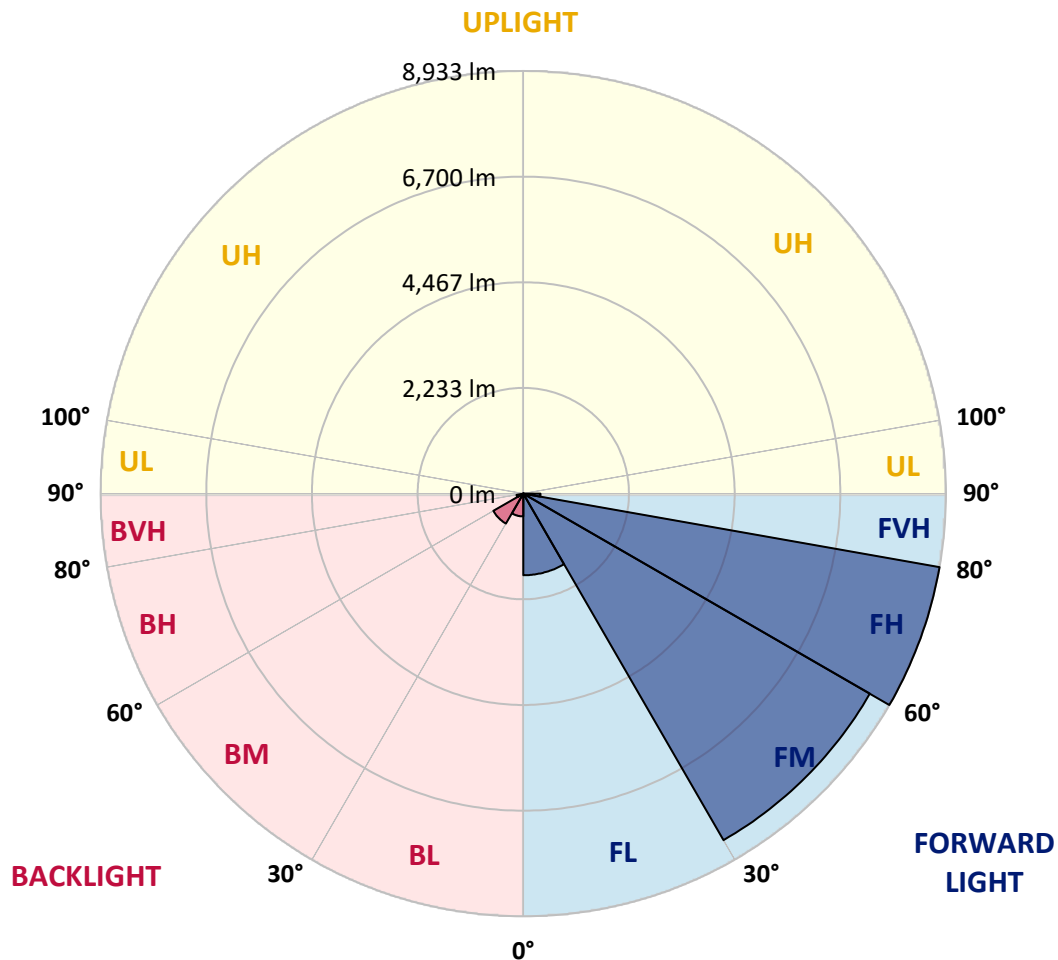
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1724.0	8.3			
FM (30°-60°)	8456.9	40.6			
FH (60°-80°)	8933.4	42.9			G4/12000
FVH (80°-90°)	362.2	1.7			G3/500
BL (0°-30°)	481.0	2.3	B1/500		
BM (30°-60°)	731.1	3.5	B1/1000		
BH (60°-80°)	143.7	0.7	B1/500		G1/500
BVH (80°-90°)	2.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0
2.5°	3756.4	3743.8	3727.0	3707.4	3651.4	3641.6	3608.0	3536.6	3451.2	3381.2	3284.6
5°	3934.2	3941.2	3928.6	3893.6	3853.0	3829.2	3787.2	3676.6	3566.0	3424.6	3266.4
7.5°	3974.8	3988.8	3973.4	3939.8	3900.6	3875.4	3841.8	3746.6	3617.8	3456.8	3239.8
10°	3970.6	3987.4	3977.6	3946.8	3914.6	3890.8	3854.4	3778.8	3675.2	3505.8	3248.2
12.5°	3963.6	3986.0	3984.6	3969.2	3942.6	3924.4	3902.0	3834.8	3738.2	3577.2	3294.4
15°	3944.0	3972.0	3997.2	4009.8	4011.2	4011.2	3983.2	3911.8	3819.4	3671.0	3354.6
17.5°	3952.4	3984.6	4047.6	4084.0	4109.2	4106.4	4077.0	4000.0	3897.8	3767.6	3417.6
20°	4004.2	4047.6	4135.8	4208.6	4233.8	4225.4	4186.2	4096.6	3980.4	3850.2	3479.2
22.5°	4131.6	4170.8	4281.4	4366.8	4385.0	4362.6	4306.6	4184.8	4079.8	3939.8	3553.4
25°	4322.0	4368.2	4470.4	4534.8	4534.8	4522.2	4443.8	4301.0	4191.8	4064.4	3650.0
27.5°	4553.0	4592.2	4693.1	4750.5	4716.9	4680.5	4602.0	4429.8	4324.8	4221.2	3766.2
30°	4786.9	4812.1	4918.5	4943.7	4908.7	4862.5	4778.5	4606.2	4513.8	4434.0	3934.2
32.5°	5008.1	5062.7	5150.9	5145.3	5097.7	5075.3	4998.3	4814.9	4763.1	4754.7	4169.4
35°	5229.3	5271.3	5349.7	5369.3	5327.3	5323.1	5267.1	5131.3	5132.7	5187.3	4536.2
37.5°	5419.7	5457.5	5549.9	5593.3	5601.7	5622.7	5600.3	5510.7	5638.1	5787.9	5022.1
40°	5579.3	5632.5	5750.1	5825.7	5912.5	5989.5	5993.7	6013.3	6269.5	6527.2	5656.3
42.5°	5703.9	5778.1	5948.9	6088.9	6287.7	6385.7	6464.1	6572.0	7003.2	7388.2	6403.9
45°	5866.3	5951.7	6164.5	6384.3	6695.2	6856.2	6965.4	7253.8	7865.6	8390.7	7171.2
47.5°	6135.1	6179.9	6396.9	6717.6	7126.4	7356.0	7568.8	8005.6	8791.1	9261.5	7809.6
50°	6480.9	6510.3	6674.2	7119.4	7648.6	7951.0	8338.8	8852.7	9751.5	9983.9	8170.8
52.5°	6863.2	6873.0	6996.2	7561.8	8233.8	8614.7	9048.7	9682.9	10534.2	10499.2	8410.3
55°	7307.0	7293.0	7398.0	8042.0	8926.9	9362.3	9867.7	10532.8	11213.2	10864.6	8547.5
57.5°	7815.2	7777.4	7879.6	8679.1	9814.5	10335.4	10849.2	11266.4	11739.6	11171.2	8613.3
60°	8347.2	8271.6	8393.5	9394.5	10860.4	11354.6	11781.6	11893.6	12294.1	11414.8	8499.9
62.5°	8771.5	8772.9	8999.7	10156.1	11935.6	12368.3	12595.1	12695.9	12771.5	11361.6	7903.4
65°	9433.7	9456.1	9818.7	11213.2	13180.3	13555.5	13710.9	13383.3	12792.5	10700.8	7007.4
67.5°	10116.9	10188.3	10852.0	12669.3	14618.2	14920.6	14720.4	13516.3	12221.3	9192.9	5313.3
70°	10339.6	10457.2	11550.6	13671.7	15480.6	15637.4	14959.8	12896.1	10216.3	6146.3	2674.1
72.5°	9474.3	9664.7	11148.8	13306.3	14930.4	14794.6	13384.7	10815.6	6494.9	2333.9	816.2
75°	6681.2	6765.2	9265.7	11038.2	12008.4	11623.4	10181.3	6972.4	2671.3	655.2	280.0
77.5°	3449.8	3409.2	5510.7	7323.8	8564.3	8165.2	6667.2	3609.4	1012.3	273.0	173.6
80°	1783.7	1813.1	2384.3	3837.6	5227.9	4810.7	3554.8	1673.1	539.0	151.2	133.0
82.5°	999.7	938.1	1370.7	1675.9	2444.5	1916.7	1363.7	1184.5	235.2	91.0	126.0
85°	182.0	190.4	751.8	905.8	848.4	539.0	439.6	791.0	68.6	50.4	88.2
87.5°	2.8	2.8	145.6	260.4	165.2	75.6	138.6	113.4	14.0	19.6	15.4
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°	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0	3251.0
2.5°	3235.6	3182.4	3083.0	2985.0	2860.4	2758.1	2689.5	2618.1	2545.3	2550.9	2567.7
5°	3179.6	3087.2	2891.2	2683.9	2485.1	2305.9	2129.5	1971.3	1906.9	1848.1	1850.9
7.5°	3123.6	2993.4	2706.3	2381.5	2080.5	1775.3	1554.1	1372.1	1275.5	1202.7	1181.7
10°	3098.4	2926.2	2536.9	2090.3	1663.3	1330.1	1045.9	897.4	782.6	746.2	756.0
12.5°	3109.6	2892.6	2384.3	1827.1	1318.9	926.8	728.0	652.4	627.2	623.0	620.2
15°	3130.6	2868.8	2234.5	1535.9	968.9	688.8	611.8	597.8	595.0	592.2	593.6
17.5°	3158.6	2847.8	2074.9	1262.9	743.4	602.0	579.6	572.6	571.2	571.2	571.2
20°	3186.6	2824.0	1897.1	1019.3	620.2	568.4	554.4	550.2	548.8	548.8	547.4
22.5°	3218.8	2803.0	1716.5	800.8	571.2	544.6	532.0	529.2	527.8	526.4	526.4
25°	3265.0	2776.3	1524.7	655.2	540.4	522.2	509.6	506.8	505.4	499.8	501.2
27.5°	3326.6	2756.7	1327.3	565.6	512.4	494.2	485.8	481.6	478.8	474.6	476.0
30°	3410.6	2739.9	1117.3	516.6	480.2	464.8	456.4	453.6	450.8	446.6	446.6
32.5°	3556.2	2746.9	896.0	477.4	450.8	432.6	424.2	421.4	418.6	414.4	414.4
35°	3774.6	2787.5	716.8	443.8	415.8	397.6	389.2	389.2	385.0	379.4	378.0
37.5°	4131.6	2891.2	575.4	411.6	382.2	365.4	355.6	352.8	348.6	340.2	338.8
40°	4553.0	3052.2	484.4	379.4	351.4	334.6	326.2	317.8	306.6	298.2	296.8
42.5°	5082.3	3217.4	420.0	347.2	322.0	306.6	296.8	282.8	266.0	254.8	253.4
45°	5633.9	3368.6	376.6	317.8	294.0	281.4	270.2	247.8	226.8	212.8	211.4
47.5°	6045.5	3396.6	341.6	289.8	270.2	257.6	242.2	214.2	186.2	173.6	169.4
50°	6240.1	3260.8	305.2	261.8	246.4	232.4	212.8	180.6	149.8	134.4	131.6
52.5°	6308.7	3025.6	275.8	236.6	222.6	205.8	182.0	145.6	117.6	102.2	100.8
55°	6280.7	2728.7	249.2	212.8	194.6	175.0	151.2	116.2	86.8	74.2	71.4
57.5°	6133.7	2350.7	222.6	189.0	166.6	147.0	120.4	86.8	58.8	47.6	46.2
60°	5737.5	1835.5	196.0	162.4	141.4	120.4	95.2	61.6	36.4	26.6	26.6
62.5°	5068.3	1362.3	170.8	135.8	119.0	96.6	67.2	39.2	19.6	14.0	12.6
65°	4235.2	1005.3	142.8	114.8	99.4	75.6	47.6	23.8	9.8	4.2	2.8
67.5°	2955.6	620.2	119.0	93.8	81.2	54.6	29.4	9.8	4.2	0.0	0.0
70°	1342.7	295.4	91.0	71.4	61.6	39.2	15.4	5.6	2.8	0.0	0.0
72.5°	417.2	155.4	64.4	51.8	42.0	25.2	8.4	4.2	2.8	0.0	0.0
75°	193.2	99.4	40.6	28.0	23.8	12.6	5.6	2.8	1.4	0.0	0.0
77.5°	144.2	77.0	23.8	15.4	12.6	8.4	4.2	2.8	1.4	0.0	0.0
80°	126.0	39.2	14.0	9.8	7.0	5.6	2.8	1.4	0.0	0.0	0.0
82.5°	113.4	19.6	8.4	5.6	4.2	2.8	1.4	1.4	0.0	0.0	0.0
85°	61.6	11.2	5.6	4.2	2.8	1.4	1.4	0.0	0.0	0.0	0.0
87.5°	11.2	5.6	4.2	2.8	2.8	1.4	1.4	1.4	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)