

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: P454898

Luminaire Tested: **GALN-SA6A-740-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454898  
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-SA6A-740-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA 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: 22307 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G4

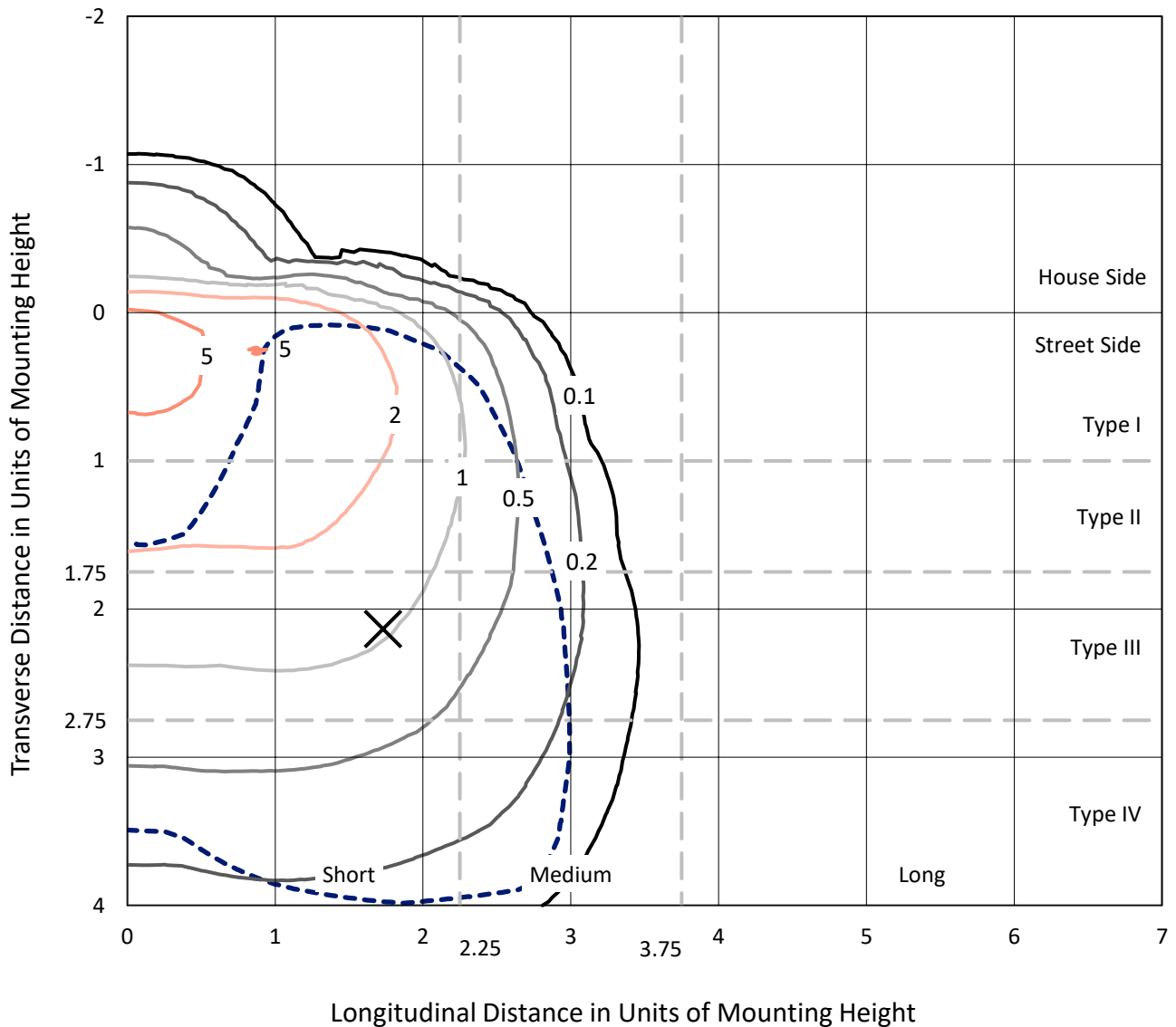
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

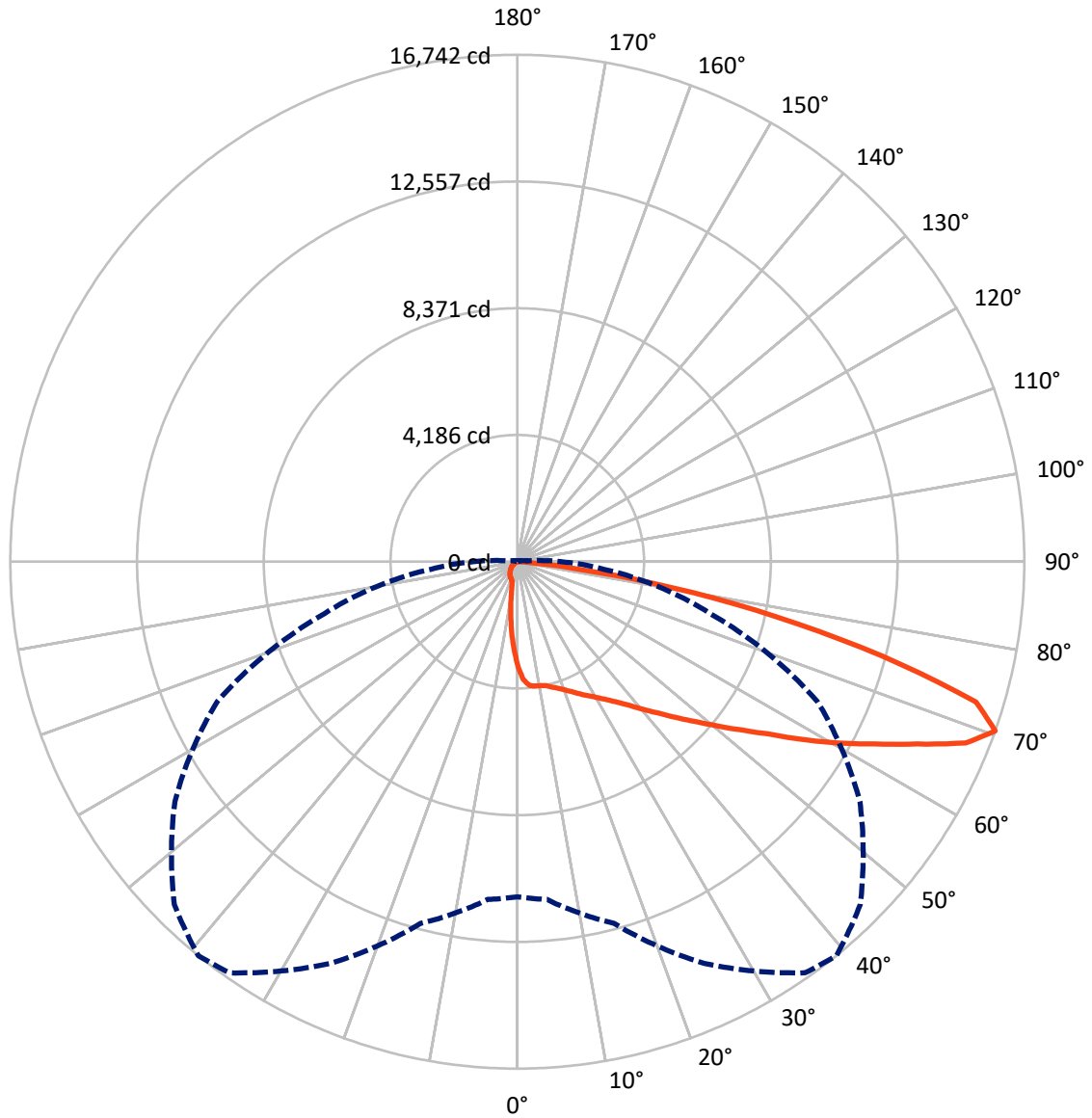
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
<b>House Side</b>	Lumens	1454.5	0.0	1454.5
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	20852.5	0.0	20852.5
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	22307.0	0.0	22307.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	296.9	1.3
10°-20°	771.5	3.5
20°-30°	1292.5	5.8
30°-40°	2004.5	9.0
40°-50°	3176.5	14.2
50°-60°	4656.2	20.9
60°-70°	5968.2	26.8
70°-80°	3750.2	16.8
80°-90°	390.7	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°	22307.0	100.0
0°-180°	22307.0	100.0

**Coefficient of Utilization**



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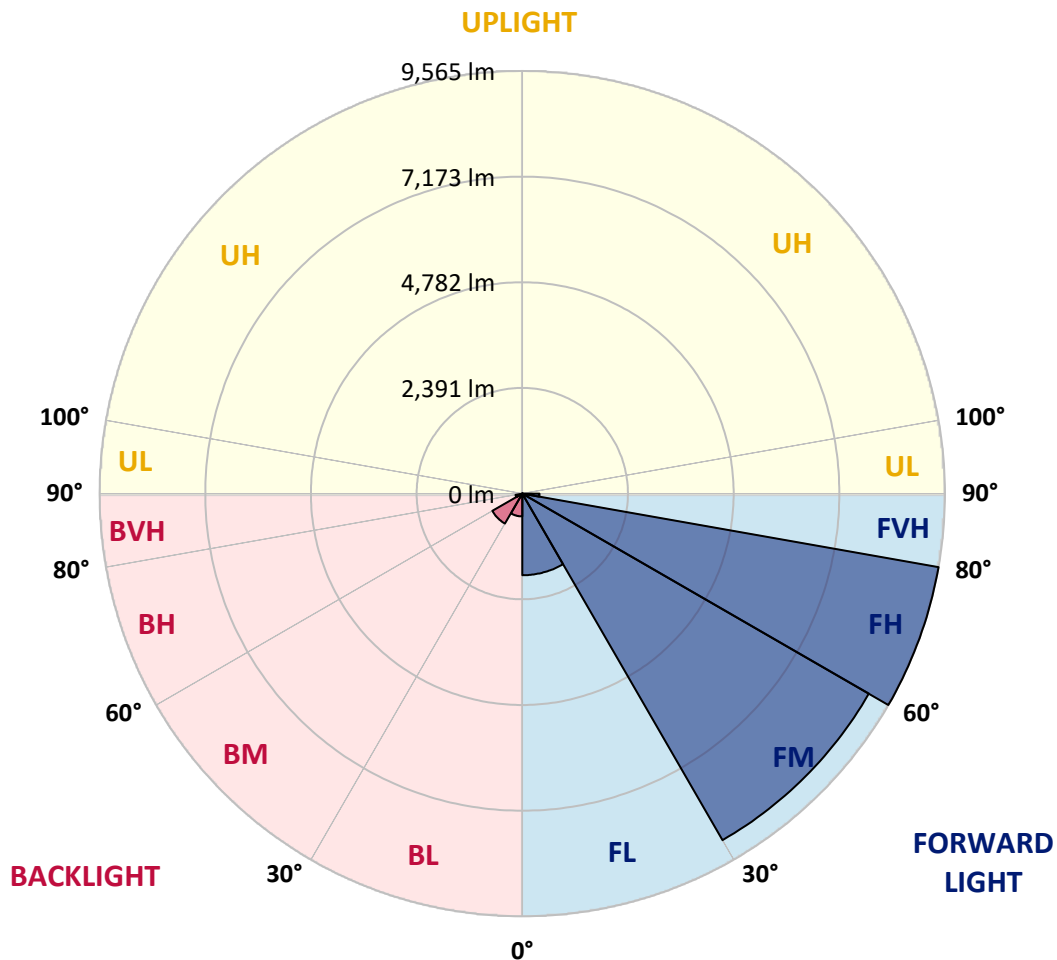
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1845.8	8.3			
FM (30°-60°)	9054.4	40.6			
FH (60°-80°)	9564.5	42.9			G4/12000
FVH (80°-90°)	387.8	1.7			G3/500
BL (0°-30°)	515.0	2.3	B2/1000		
BM (30°-60°)	782.8	3.5	B1/1000		
BH (60°-80°)	153.8	0.7	B1/500		G1/500
BVH (80°-90°)	2.9	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°	35°	39°	45°	55°	65°	75°	85°
0°	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7
2.5°	4021.8	4008.3	3990.3	3969.3	3909.4	3898.9	3862.9	3786.5	3695.0	3620.1	3516.6
5°	4212.2	4219.7	4206.2	4168.7	4125.2	4099.7	4054.8	3936.4	3817.9	3666.5	3497.1
7.5°	4255.6	4270.6	4254.1	4218.2	4176.2	4149.2	4113.2	4011.3	3873.4	3701.0	3468.7
10°	4251.1	4269.1	4258.6	4225.7	4191.2	4165.7	4126.7	4045.8	3934.9	3753.5	3477.7
12.5°	4243.6	4267.6	4266.1	4249.6	4221.2	4201.7	4177.7	4105.7	4002.3	3829.9	3527.1
15°	4222.7	4252.6	4279.6	4293.1	4294.6	4294.6	4264.6	4188.2	4089.2	3930.4	3591.6
17.5°	4231.7	4266.1	4333.6	4372.6	4399.5	4396.5	4365.1	4282.6	4173.2	4033.8	3659.0
20°	4287.1	4333.6	4428.0	4506.0	4532.9	4524.0	4482.0	4386.0	4261.6	4122.2	3725.0
22.5°	4423.5	4465.5	4583.9	4675.4	4694.8	4670.9	4610.9	4480.5	4368.1	4218.2	3804.4
25°	4627.4	4676.9	4786.3	4855.2	4855.2	4841.7	4757.8	4604.9	4488.0	4351.6	3907.9
27.5°	4874.7	4916.7	5024.6	5086.1	5050.1	5011.1	4927.2	4742.8	4630.4	4519.5	4032.3
30°	5125.1	5152.0	5266.0	5292.9	5255.5	5206.0	5116.1	4931.7	4832.7	4747.3	4212.2
32.5°	5361.9	5420.4	5514.8	5508.8	5457.8	5433.8	5351.4	5155.0	5099.6	5090.6	4464.0
35°	5598.7	5643.7	5727.6	5748.6	5703.7	5699.2	5639.2	5493.8	5495.3	5553.8	4856.7
37.5°	5802.6	5843.1	5942.0	5988.5	5997.5	6019.9	5996.0	5900.0	6036.4	6196.8	5376.9
40°	5973.5	6030.4	6156.4	6237.3	6330.2	6412.7	6417.2	6438.2	6712.5	6988.3	6055.9
42.5°	6106.9	6186.3	6369.2	6519.1	6732.0	6836.9	6920.8	7036.3	7498.0	7910.2	6856.4
45°	6280.8	6372.2	6600.1	6835.4	7168.2	7340.6	7457.5	7766.3	8421.3	8983.5	7677.8
47.5°	6568.6	6616.5	6848.9	7192.2	7629.9	7875.7	8103.5	8571.2	9412.2	9915.8	8361.4
50°	6938.8	6970.3	7145.7	7622.4	8189.0	8512.8	8928.0	9478.1	10440.5	10689.3	8748.1
52.5°	7348.1	7358.5	7490.5	8096.1	8815.6	9223.3	9688.0	10367.0	11278.4	11240.9	9004.4
55°	7823.2	7808.2	7920.7	8610.2	9557.6	10023.8	10564.9	11276.9	12005.4	11632.2	9151.3
57.5°	8367.4	8326.9	8436.3	9292.2	10507.9	11065.6	11615.7	12062.4	12569.0	11960.4	9221.8
60°	8937.0	8856.0	8986.5	10058.2	11627.7	12156.8	12614.0	12733.9	13162.6	12221.3	9100.4
62.5°	9391.2	9392.7	9635.5	10873.7	12778.9	13242.1	13484.9	13592.9	13673.8	12164.3	8461.8
65°	10100.2	10124.2	10512.4	12005.4	14111.5	14513.2	14679.6	14328.9	13696.3	11456.8	7502.5
67.5°	10831.7	10908.2	11618.7	13564.4	15651.0	15974.7	15760.4	14471.3	13084.7	9842.4	5688.7
70°	11070.0	11196.0	12366.7	14637.6	16574.3	16742.2	16016.7	13807.2	10938.1	6580.6	2863.1
72.5°	10143.7	10347.5	11936.5	14246.4	15985.2	15839.8	14330.4	11579.7	6953.8	2498.8	873.9
75°	7153.2	7243.1	9920.3	11818.0	12856.8	12444.6	10900.7	7465.0	2860.1	701.5	299.8
77.5°	3693.5	3650.0	5900.0	7841.2	9169.3	8742.1	7138.2	3864.4	1083.8	292.3	185.9
80°	1909.7	1941.2	2552.8	4108.7	5597.2	5150.5	3805.9	1791.3	577.1	161.9	142.4
82.5°	1070.3	1004.3	1467.5	1794.3	2617.2	2052.1	1460.0	1268.1	251.8	97.4	134.9
85°	194.9	203.9	805.0	969.8	908.4	577.1	470.7	846.9	73.5	54.0	94.4
87.5°	3.0	3.0	155.9	278.8	176.9	80.9	148.4	121.4	15.0	21.0	16.5
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°	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7	3480.7
2.5°	3464.2	3407.2	3300.8	3195.8	3062.4	2953.0	2879.6	2803.1	2725.2	2731.2	2749.1
5°	3404.2	3305.3	3095.4	2873.6	2660.7	2468.8	2280.0	2110.6	2041.6	1978.7	1981.7
7.5°	3344.2	3204.8	2897.5	2549.8	2227.5	1900.7	1663.9	1469.0	1365.6	1287.6	1265.1
10°	3317.3	3132.9	2716.2	2238.0	1780.8	1424.0	1119.7	960.9	837.9	799.0	809.5
12.5°	3329.3	3096.9	2552.8	1956.2	1412.0	992.3	779.5	698.5	671.5	667.1	664.1
15°	3351.7	3071.4	2392.4	1644.4	1037.3	737.5	655.1	640.1	637.1	634.1	635.6
17.5°	3381.7	3048.9	2221.5	1352.1	796.0	644.6	620.6	613.1	611.6	611.6	611.6
20°	3411.7	3023.5	2031.1	1091.3	664.1	608.6	593.6	589.1	587.6	587.6	586.1
22.5°	3446.2	3001.0	1837.8	857.4	611.6	583.1	569.6	566.6	565.1	563.6	563.6
25°	3495.6	2972.5	1632.4	701.5	578.6	559.1	545.6	542.6	541.1	535.1	536.6
27.5°	3561.6	2951.5	1421.0	605.6	548.6	529.1	520.1	515.7	512.7	508.2	509.7
30°	3651.5	2933.5	1196.2	553.1	514.2	497.7	488.7	485.7	482.7	478.2	478.2
32.5°	3807.4	2941.0	959.4	511.2	482.7	463.2	454.2	451.2	448.2	443.7	443.7
35°	4041.3	2984.5	767.5	475.2	445.2	425.7	416.7	416.7	412.2	406.2	404.7
37.5°	4423.5	3095.4	616.1	440.7	409.2	391.2	380.7	377.7	373.2	364.3	362.8
40°	4874.7	3267.8	518.7	406.2	376.2	358.3	349.3	340.3	328.3	319.3	317.8
42.5°	5441.3	3444.7	449.7	371.7	344.8	328.3	317.8	302.8	284.8	272.8	271.3
45°	6031.9	3606.6	403.2	340.3	314.8	301.3	289.3	265.3	242.8	227.8	226.3
47.5°	6472.6	3636.6	365.8	310.3	289.3	275.8	259.3	229.3	199.4	185.9	181.4
50°	6681.0	3491.2	326.8	280.3	263.8	248.8	227.8	193.4	160.4	143.9	140.9
52.5°	6754.5	3239.3	295.3	253.3	238.3	220.4	194.9	155.9	125.9	109.4	107.9
55°	6724.5	2921.5	266.8	227.8	208.4	187.4	161.9	124.4	92.9	79.4	76.4
57.5°	6567.1	2516.8	238.3	202.4	178.4	157.4	128.9	92.9	63.0	51.0	49.5
60°	6142.9	1965.2	209.9	173.9	151.4	128.9	101.9	66.0	39.0	28.5	28.5
62.5°	5426.3	1458.5	182.9	145.4	127.4	103.4	72.0	42.0	21.0	15.0	13.5
65°	4534.4	1076.3	152.9	122.9	106.4	80.9	51.0	25.5	10.5	4.5	3.0
67.5°	3164.4	664.1	127.4	100.4	86.9	58.5	31.5	10.5	4.5	0.0	0.0
70°	1437.5	316.3	97.4	76.4	66.0	42.0	16.5	6.0	3.0	0.0	0.0
72.5°	446.7	166.4	69.0	55.5	45.0	27.0	9.0	4.5	3.0	0.0	0.0
75°	206.9	106.4	43.5	30.0	25.5	13.5	6.0	3.0	1.5	0.0	0.0
77.5°	154.4	82.4	25.5	16.5	13.5	9.0	4.5	3.0	1.5	0.0	0.0
80°	134.9	42.0	15.0	10.5	7.5	6.0	3.0	1.5	0.0	0.0	0.0
82.5°	121.4	21.0	9.0	6.0	4.5	3.0	1.5	1.5	0.0	0.0	0.0
85°	66.0	12.0	6.0	4.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0
87.5°	12.0	6.0	4.5	3.0	3.0	1.5	1.5	1.5	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)