

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: P650789

Luminaire Tested: **GALN-SA3C-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P650789  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10302.3 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

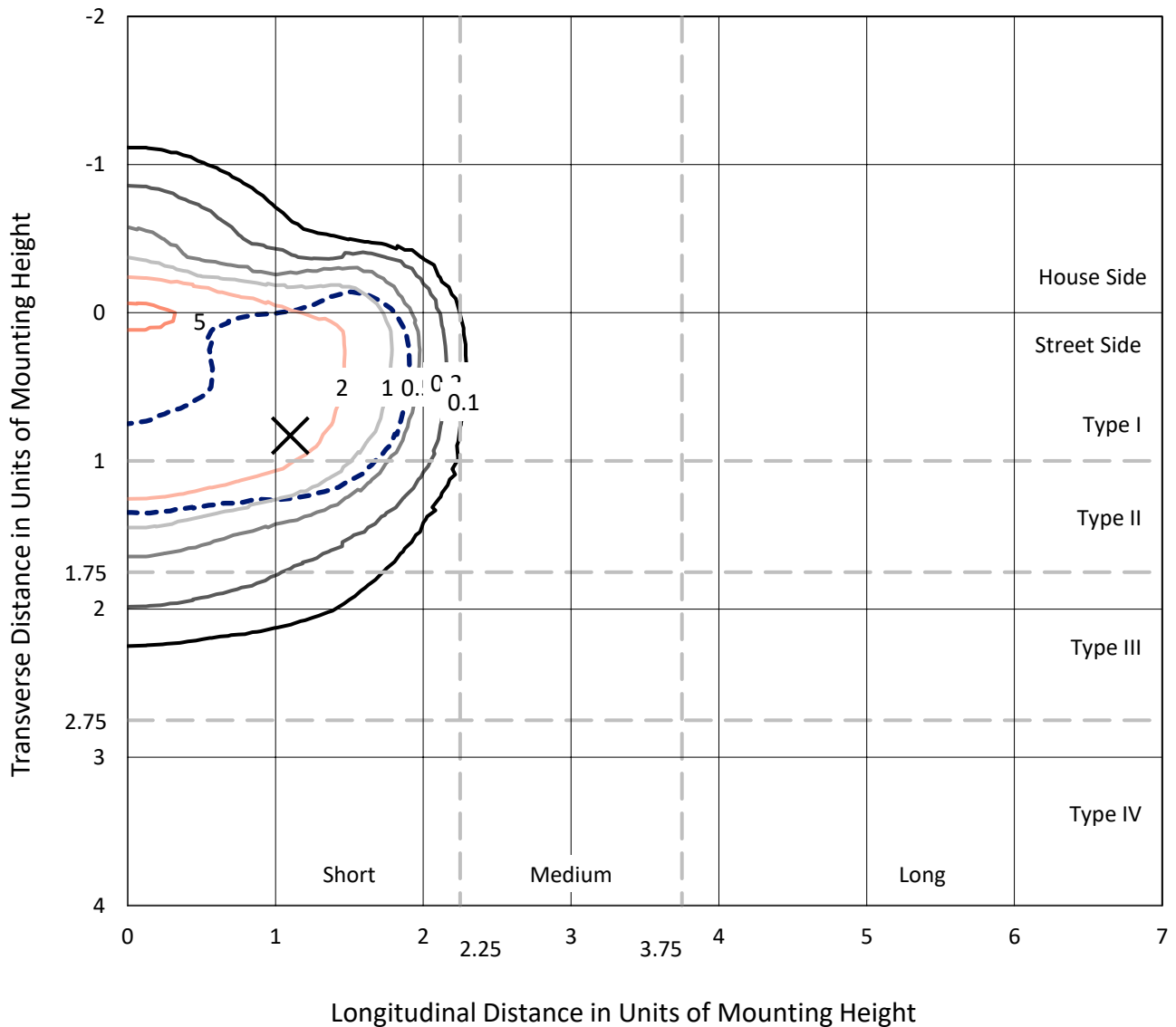
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

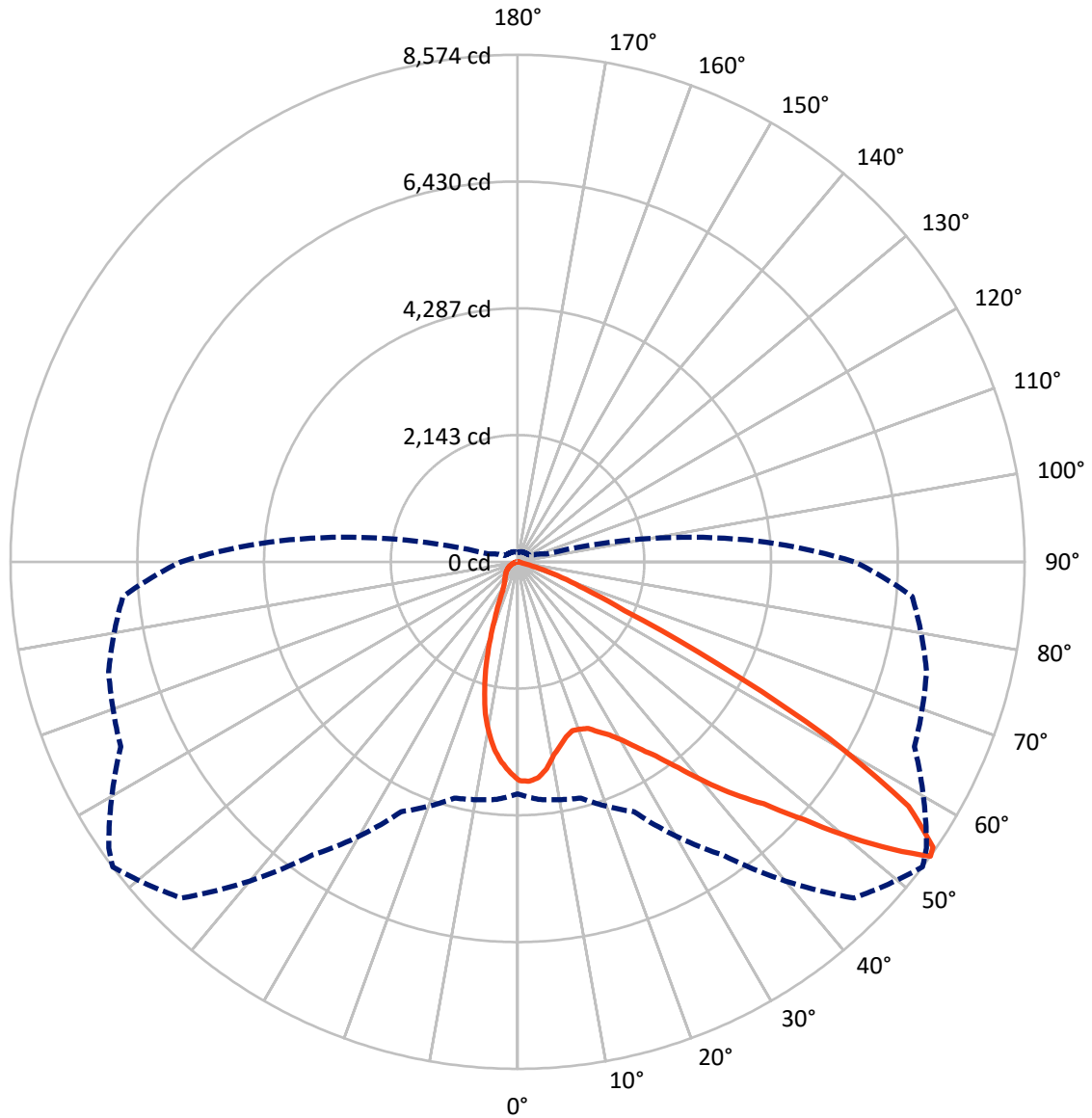
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1704.5	0.0	1704.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	8597.7	0.0	8597.7
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	10302.3	0.0	10302.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	317.5	3.1
10°-20°	727.9	7.1
20°-30°	1034.5	10.0
30°-40°	1596.5	15.5
40°-50°	2503.2	24.3
50°-60°	2907.8	28.2
60°-70°	1098.7	10.7
70°-80°	104.5	1.0
80°-90°	11.8	0.1
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°	10302.3	100.0
0°-180°	10302.3	100.0

**Coefficient of Utilization**

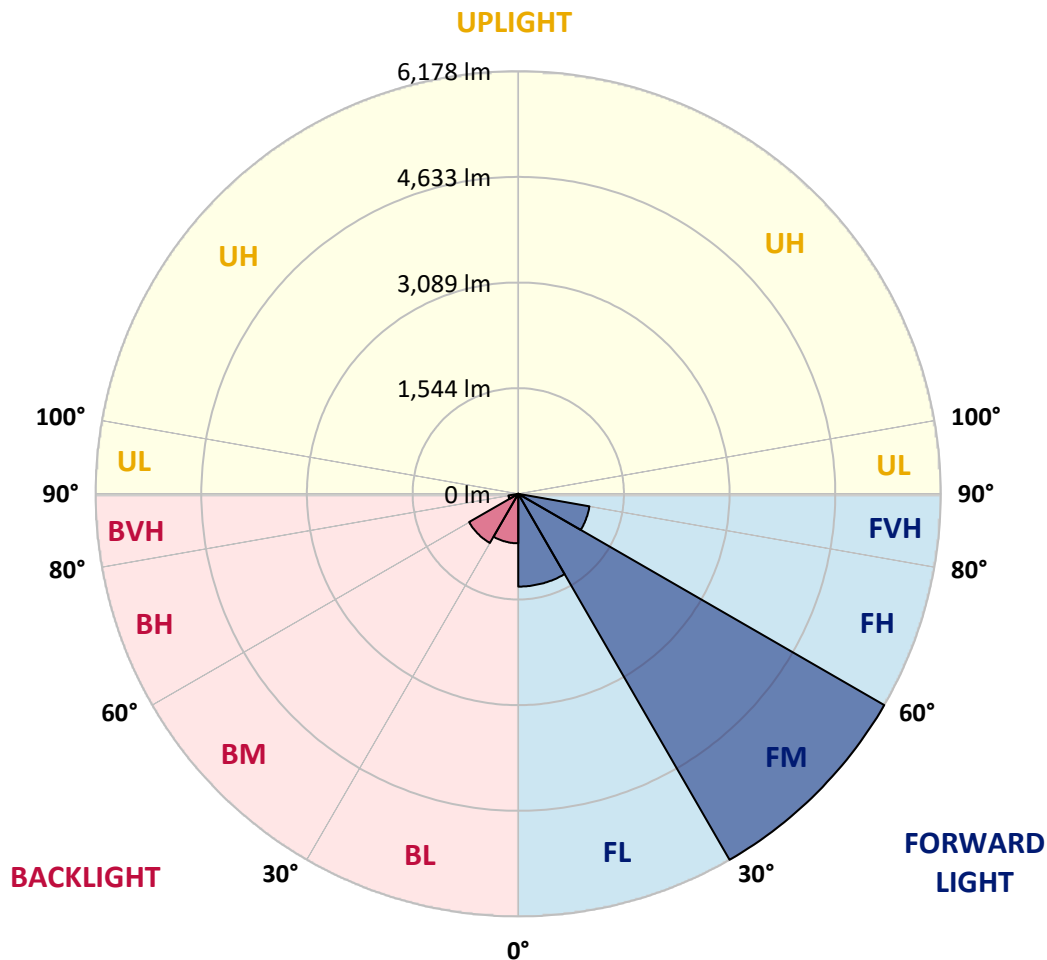


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.5	13.2			
FM (30°-60°)	6177.9	60.0			
FH (60°-80°)	1057.2	10.3			G1/1800
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	723.3	7.0	B2/1000		
BM (30°-60°)	829.5	8.1	B1/1000		
BH (60°-80°)	146.0	1.4	B1/500		G1/500
BVH (80°-90°)	5.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4
2.5°	3681.2	3648.6	3681.2	3685.0	3708.1	3729.2	3715.8	3746.5	3729.2	3710.0	3704.3
5°	3383.7	3427.8	3429.8	3498.9	3483.5	3610.2	3665.8	3650.5	3744.6	3738.7	3725.4
7.5°	3116.9	3099.7	3122.7	3203.3	3305.0	3450.9	3531.5	3529.6	3663.9	3759.9	3750.3
10°	2869.3	2867.4	2915.4	2978.7	3065.1	3218.7	3329.9	3385.6	3594.9	3740.7	3761.8
12.5°	2702.4	2694.6	2746.5	2798.3	2934.6	3053.6	3195.6	3222.5	3462.4	3673.5	3708.1
15°	2593.0	2610.2	2614.1	2713.9	2800.3	2957.6	3069.0	3124.6	3401.0	3619.7	3752.2
17.5°	2573.8	2596.8	2598.7	2681.3	2773.4	2905.8	3003.7	3078.6	3349.2	3646.7	3754.1
20°	2612.1	2598.7	2610.2	2662.0	2752.3	2878.9	3021.0	3045.9	3331.9	3660.1	3775.2
22.5°	2721.6	2717.7	2688.9	2731.1	2794.5	2926.9	3061.2	3099.7	3381.8	3729.2	3792.5
25°	2842.5	2863.6	2836.7	2831.0	2875.1	3005.6	3184.1	3234.0	3548.8	3854.0	3846.2
27.5°	3069.0	3047.9	3047.9	3021.0	3009.4	3072.8	3316.6	3399.1	3735.0	4015.2	3907.7
30°	3285.8	3308.8	3291.6	3301.2	3224.4	3218.7	3504.6	3606.4	4065.1	4260.8	4038.2
32.5°	3629.4	3598.6	3627.5	3602.5	3500.7	3397.1	3759.9	3865.5	4464.3	4543.0	4233.9
35°	3915.4	3901.9	4024.8	4020.9	3855.8	3754.1	4030.5	4187.9	4742.6	4880.7	4464.3
37.5°	4322.2	4297.3	4437.4	4504.6	4356.8	4205.2	4418.2	4600.5	5001.7	5151.4	4700.3
40°	4740.6	4804.0	4992.1	5103.4	4946.0	4744.5	4892.3	4947.9	5174.4	5328.0	4861.6
42.5°	5270.4	5362.5	5554.5	5650.4	5637.0	5418.1	5374.0	5372.1	5299.1	5278.0	4980.6
45°	5779.0	5744.5	6040.0	6249.2	6418.1	6354.8	5838.5	5780.9	5496.9	5352.9	5011.3
47.5°	6001.6	5990.1	6191.6	6564.0	7139.8	7218.5	6514.0	6291.4	5830.8	5667.7	5178.3
50°	5713.8	5773.2	5972.9	6385.5	7268.3	7869.1	7343.2	7043.8	6220.5	6051.5	5573.6
52.5°	4773.3	4813.5	5003.6	5527.6	6830.8	8253.0	8137.8	7965.0	6936.3	6656.1	6262.7
54°	3924.9	4032.4	4136.0	4662.0	6051.5	8039.9	8573.5	8441.0	7402.7	7158.9	6696.4
55°	3418.2	3481.6	3556.4	4080.4	5512.2	7679.1	8523.5	8535.1	7715.6	7316.4	6988.1
57.5°	2497.0	2541.2	2464.4	2696.6	3784.8	6235.8	7796.2	8107.1	8137.8	7552.4	7166.7
60°	1907.8	1927.0	1840.6	1877.0	2353.0	4280.0	6030.4	6404.6	7341.3	6600.4	6070.8
62.5°	1479.7	1483.6	1481.7	1545.0	1621.8	2518.1	3771.4	4103.4	5061.1	4686.9	4122.7
65°	1090.2	1072.9	1103.6	1295.6	1383.8	1583.4	1986.4	2228.3	2750.3	2322.3	1660.2
67.5°	706.3	712.1	742.8	963.4	1186.1	1214.9	1222.6	1203.4	1205.3	664.1	416.5
70°	424.2	433.8	424.2	545.1	848.3	871.4	796.5	777.3	606.5	157.4	155.5
72.5°	251.5	238.0	213.0	234.1	353.1	422.3	380.0	378.1	238.0	92.1	92.1
75°	105.5	96.0	78.7	71.0	94.0	90.2	90.2	80.7	63.3	61.4	57.6
77.5°	21.1	21.1	15.4	17.2	23.0	26.9	32.6	32.6	38.3	38.3	36.5
80°	0.0	1.9	5.7	11.5	17.2	25.0	28.8	28.8	32.6	32.6	26.9
82.5°	0.0	1.9	5.7	11.5	15.4	23.0	28.8	28.8	32.6	34.6	28.8
85°	0.0	1.9	5.7	9.6	15.4	19.2	19.2	17.2	13.5	11.5	7.7
87.5°	0.0	0.0	1.9	3.9	1.9	3.9	3.9	3.9	3.9	3.9	3.9
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°	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4	3700.4
2.5°	3717.6	3715.8	3669.7	3594.9	3577.5	3514.2	3506.5	3468.2	3489.3	3418.2	3410.6
5°	3686.9	3663.9	3608.3	3560.3	3420.2	3320.4	3241.7	3145.8	3090.1	3099.7	3063.2
7.5°	3731.1	3671.6	3573.7	3406.7	3235.9	3061.2	2967.2	2771.4	2700.5	2594.9	2579.5
10°	3685.0	3640.9	3489.3	3212.9	2976.8	2725.4	2504.7	2287.8	2122.8	2051.7	2036.4
12.5°	3681.2	3604.4	3351.0	3044.0	2702.4	2341.5	2021.0	1750.4	1587.2	1495.1	1474.0
15°	3621.7	3529.6	3195.6	2783.0	2310.8	1861.7	1512.4	1251.4	1126.6	1072.9	1088.3
17.5°	3627.5	3489.3	3040.1	2506.6	1925.0	1366.5	1032.6	898.2	865.6	879.0	879.0
20°	3621.7	3399.1	2852.1	2188.0	1474.0	948.1	758.2	710.1	731.2	773.5	763.9
22.5°	3591.0	3356.9	2679.3	1852.1	1084.4	702.5	608.4	610.3	642.9	694.8	706.3
25°	3614.0	3262.8	2460.5	1512.4	790.7	560.4	527.8	541.3	575.7	614.2	621.8
27.5°	3596.8	3195.6	2232.1	1174.6	577.7	481.7	479.8	495.2	510.6	539.3	539.3
30°	3616.0	3134.2	2007.6	873.3	476.0	441.4	433.8	445.3	460.6	466.4	464.5
32.5°	3686.9	3088.2	1748.4	652.5	420.3	403.1	403.1	403.1	401.2	408.8	410.7
35°	3842.4	3095.8	1520.1	504.8	383.8	370.5	364.7	357.0	353.1	357.0	358.9
37.5°	4011.3	3092.0	1284.0	429.9	357.0	345.5	332.0	320.5	318.6	322.4	316.7
40°	4086.2	3128.4	1065.2	385.8	332.0	318.6	297.5	287.9	289.8	293.7	289.8
42.5°	4187.9	3140.0	923.2	351.2	309.0	287.9	274.4	263.0	261.0	266.8	264.8
45°	4186.0	3074.7	773.5	332.0	287.9	264.8	247.6	238.0	238.0	241.9	243.7
47.5°	4308.8	3065.1	664.1	314.8	272.6	249.5	228.4	220.7	218.8	218.8	215.0
50°	4594.8	3199.5	579.6	295.6	253.3	232.2	215.0	205.4	197.7	193.9	191.9
52.5°	5153.3	3617.9	514.4	272.6	232.2	215.0	199.6	191.9	182.3	172.7	170.8
54°	5694.6	4049.7	510.6	253.3	215.0	203.4	190.0	186.2	174.7	161.2	157.4
55°	5938.3	4301.1	523.9	238.0	203.4	195.8	184.3	180.4	168.9	153.6	151.6
57.5°	6139.8	4399.0	516.3	197.7	184.3	182.3	172.7	166.9	153.6	132.5	128.6
60°	4942.1	3326.2	370.5	174.7	168.9	165.1	157.4	153.6	136.2	113.2	111.3
62.5°	3122.7	1913.5	236.1	153.6	147.8	142.0	132.5	128.6	113.2	90.2	84.4
65°	1330.0	792.6	159.3	136.2	126.7	117.1	109.4	103.6	90.2	67.2	65.3
67.5°	345.5	282.2	132.5	119.0	105.5	92.1	86.4	76.8	61.4	46.1	44.2
70°	155.5	142.0	111.3	99.8	84.4	71.0	63.3	53.7	40.3	30.7	28.8
72.5°	92.1	90.2	84.4	74.8	63.3	53.7	46.1	36.5	26.9	17.2	17.2
75°	57.6	55.7	57.6	51.8	44.2	40.3	34.6	25.0	15.4	7.7	7.7
77.5°	34.6	34.6	34.6	32.6	30.7	30.7	25.0	15.4	7.7	1.9	1.9
80°	26.9	26.9	28.8	26.9	26.9	26.9	21.1	11.5	3.9	0.0	0.0
82.5°	26.9	28.8	32.6	30.7	26.9	23.0	19.2	11.5	3.9	0.0	0.0
85°	7.7	5.7	9.6	13.5	19.2	17.2	13.5	9.6	3.9	0.0	0.0
87.5°	3.9	3.9	3.9	3.9	1.9	1.9	1.9	1.9	1.9	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)