

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: P455891

Luminaire Tested: **GALN-SA7A-760-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455891  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA7A-760-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23812 lumens  
Efficiency: N/A  
Efficacy: 110.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

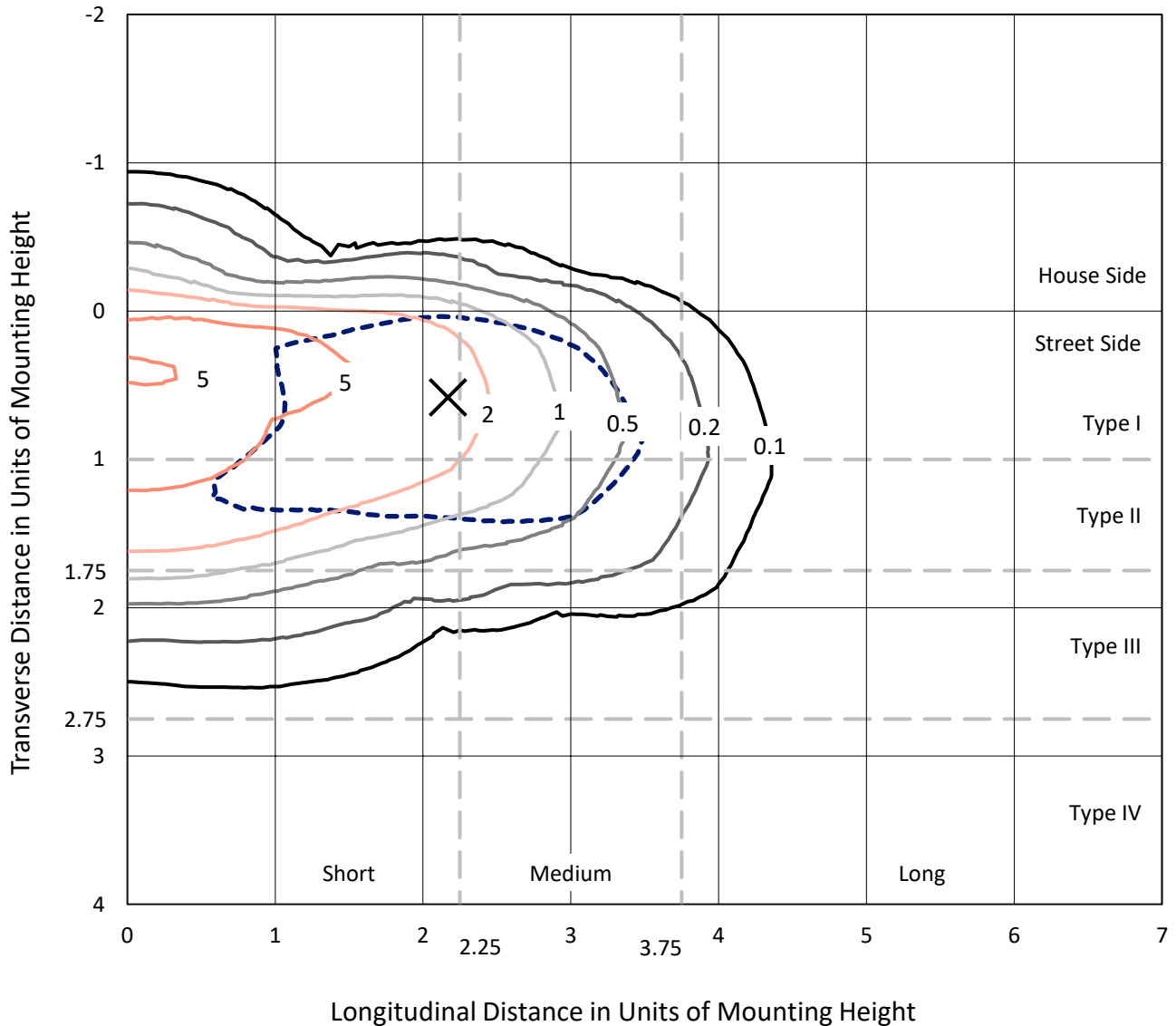
Input Watts (W): 215  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

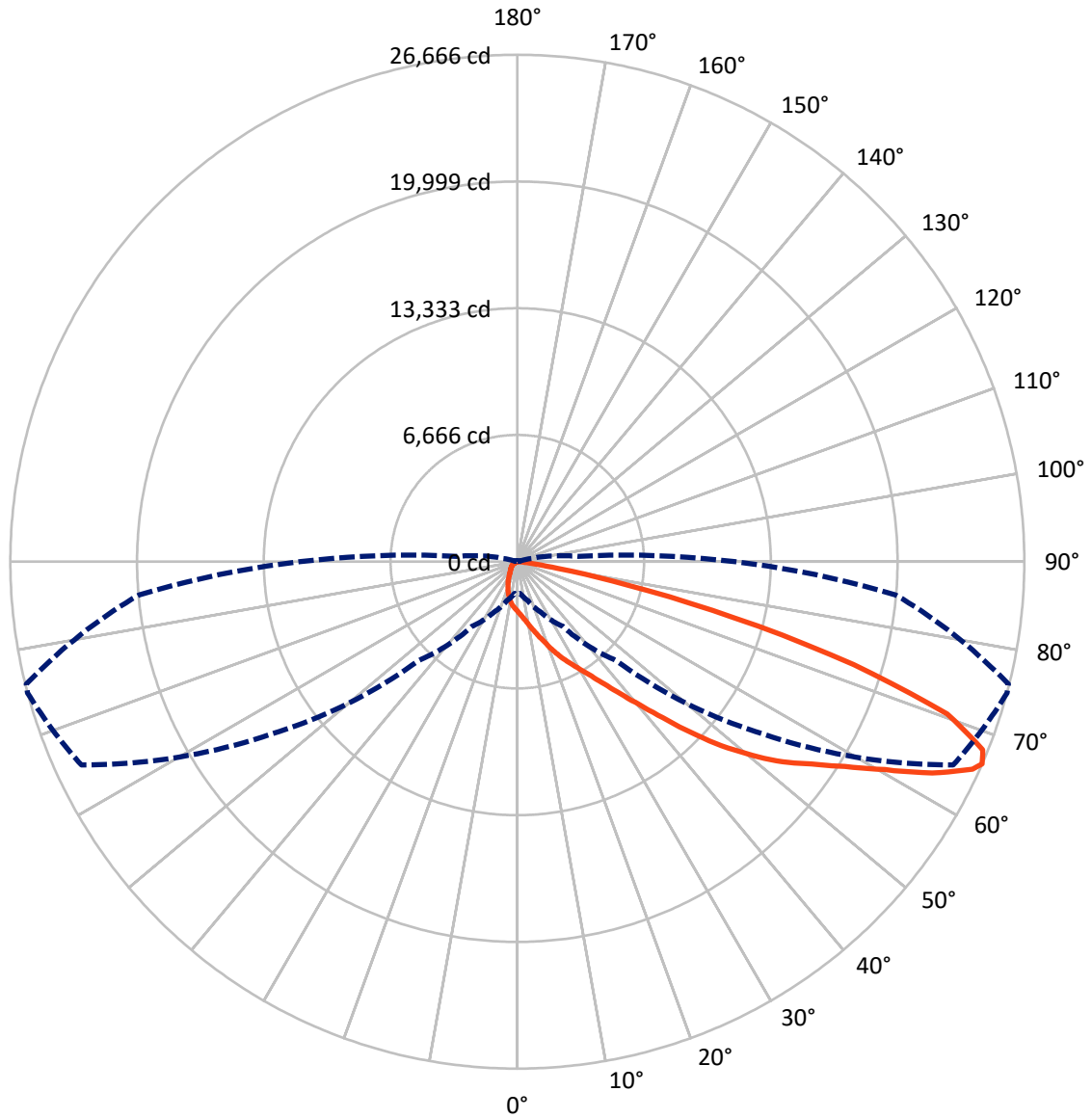
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1470.0	0.0	1470.0
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	22341.9	0.0	22341.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	23812.0	0.0	23812.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	251.2	1.1
10°-20°	739.2	3.1
20°-30°	1276.4	5.4
30°-40°	2302.4	9.7
40°-50°	4159.4	17.5
50°-60°	6484.5	27.2
60°-70°	6160.0	25.9
70°-80°	2308.6	9.7
80°-90°	130.2	0.5
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°	23812.0	100.0
0°-180°	23812.0	100.0

**Coefficient of Utilization**



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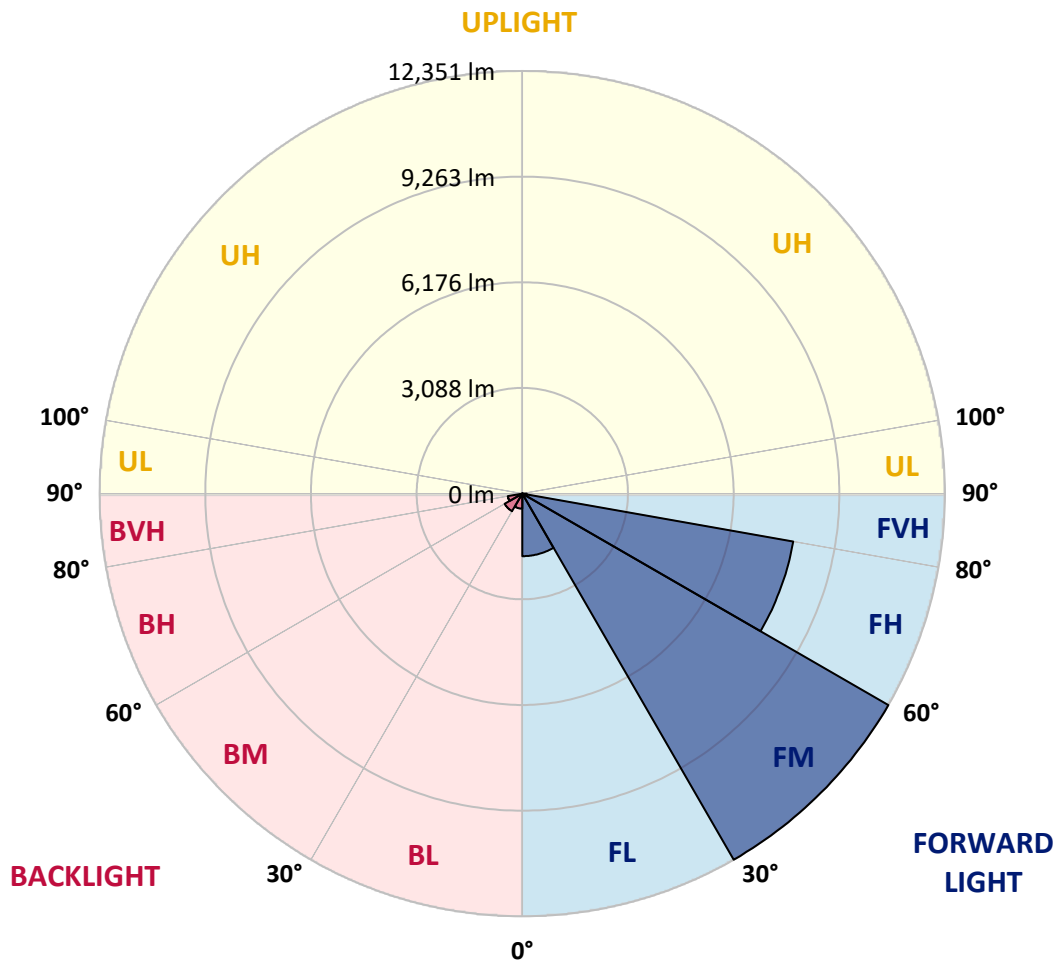
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1827.8	7.7			
FM (30°-60°)	12351.3	51.9			
FH (60°-80°)	8039.4	33.8			G4/12000
FVH (80°-90°)	123.5	0.5			G2/225
BL (0°-30°)	439.0	1.8	B1/500		
BM (30°-60°)	595.0	2.5	B1/1000		
BH (60°-80°)	429.3	1.8	B1/500		G1/500
BVH (80°-90°)	6.7	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1
2.5°	3111.2	3072.4	3084.7	3067.1	3026.6	2966.8	2914.0	2838.3	2762.5	2750.2	2665.7
5°	3521.4	3510.8	3496.8	3445.7	3417.5	3326.0	3216.8	3086.5	2929.8	2901.6	2748.5
7.5°	3801.4	3796.1	3803.1	3776.7	3752.1	3669.3	3553.1	3375.3	3132.3	3116.4	2861.1
10°	3892.9	3907.0	3933.4	3975.7	4014.4	3988.0	3900.0	3678.1	3394.6	3348.9	2989.7
12.5°	3840.1	3855.9	3919.3	4032.0	4157.0	4229.2	4194.0	4032.0	3672.8	3635.8	3134.0
15°	3704.5	3723.9	3813.7	3988.0	4211.6	4415.8	4503.9	4387.7	3996.8	3936.9	3308.4
17.5°	3503.8	3532.0	3660.5	3891.2	4197.5	4549.7	4797.9	4759.2	4341.9	4285.5	3498.5
20°	3352.4	3373.5	3482.7	3746.8	4137.6	4623.6	5077.9	5187.0	4768.0	4671.1	3722.1
22.5°	3452.7	3459.8	3496.8	3655.2	4030.2	4643.0	5324.4	5632.5	5220.5	5134.2	3954.5
25°	3944.0	3873.5	3836.6	3801.4	4007.4	4625.4	5548.0	6097.3	5671.2	5579.7	4185.2
27.5°	4718.7	4687.0	4500.4	4250.3	4202.8	4648.3	5695.9	6537.5	6095.5	5996.9	4410.6
30°	5562.1	5507.5	5393.0	5026.8	4658.8	4810.2	5803.3	6965.3	6597.3	6467.1	4616.6
32.5°	6336.8	6372.0	6201.2	5824.4	5398.3	5155.3	5942.4	7431.9	7173.1	7011.1	4856.0
35°	7240.0	7310.4	7048.1	6687.1	6188.9	5778.6	6213.5	7958.4	7903.8	7699.5	5225.8
37.5°	8157.3	8199.6	8039.4	7532.3	7083.3	6570.9	6724.1	8608.1	8803.5	8629.2	5667.7
40°	8928.5	8986.6	8868.7	8417.9	7939.0	7488.3	7465.4	9315.9	9874.0	9694.4	6326.2
42.5°	9518.4	9562.4	9565.9	9247.2	8815.8	8611.6	8410.9	10219.1	11215.7	11007.9	7090.3
45°	10263.1	10326.5	10289.5	10073.0	9750.8	9713.8	9609.9	11310.7	12821.4	12559.1	8081.6
47.5°	11414.6	11456.9	11365.3	11110.0	10782.5	10840.6	10779.0	12534.4	14458.9	14233.5	9108.1
50°	12214.0	12284.4	12414.7	12516.8	12279.1	12064.3	11881.2	13677.1	16013.6	15811.1	10157.5
52.5°	12205.2	12321.4	12733.4	13247.5	13766.9	13701.8	13175.3	14939.6	17497.9	17247.8	11143.5
55°	11382.9	11608.3	12214.0	13126.0	14564.5	15281.1	15041.7	16400.9	18779.6	18610.6	12286.2
57.5°	9685.6	9823.0	10664.6	11939.3	14119.1	16024.1	17203.8	18381.7	20316.7	20237.5	14061.0
60°	6514.6	6576.2	7659.1	9234.9	12020.3	15282.9	18788.4	20778.0	22209.5	22170.8	16133.3
62.5°	3732.7	3759.1	4544.4	5873.7	8553.5	12951.7	18922.3	23734.3	24479.0	24500.2	18531.4
65°	2009.0	2023.0	2656.9	3447.5	5204.6	9231.4	17015.4	25354.1	26313.7	26354.2	20017.4
66°	1734.3	1667.4	2114.6	2938.6	4141.2	7347.4	15809.3	25296.0	26665.8	26621.8	19964.6
67.5°	1318.8	1378.6	1688.5	2259.0	3068.9	5224.0	13052.1	24170.9	26398.2	26260.9	19152.9
70°	943.7	968.4	1202.6	1611.0	2090.0	2866.4	8340.4	20075.5	23993.1	23808.2	16686.2
72.5°	609.2	635.6	852.2	1165.6	1510.7	1565.3	4669.4	14504.7	18497.9	18471.5	12566.1
75°	434.9	459.5	563.4	834.6	1135.7	968.4	2248.4	9775.4	11759.7	11680.5	7773.5
77.5°	315.2	327.5	376.8	545.8	811.7	693.7	1042.3	5220.5	5854.3	6130.8	3435.1
80°	181.4	191.9	262.3	332.8	549.3	473.6	498.3	2095.2	2160.4	2056.5	1074.0
82.5°	89.8	102.1	156.7	227.1	343.3	318.7	228.9	630.3	665.5	647.9	271.1
85°	21.1	26.4	88.0	149.7	167.3	142.6	110.9	184.9	228.9	223.6	103.9
87.5°	1.8	3.5	31.7	26.4	28.2	47.5	38.7	47.5	73.9	68.7	37.0
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°	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1	2604.1
2.5°	2627.0	2593.5	2496.7	2401.6	2322.4	2239.6	2163.9	2119.9	2102.3	2082.9	2091.7
5°	2663.9	2582.9	2387.5	2218.5	2053.0	1912.1	1799.4	1727.2	1692.0	1686.8	1677.9
7.5°	2713.2	2574.1	2271.3	2007.2	1790.6	1633.9	1505.4	1401.5	1369.8	1341.7	1318.8
10°	2773.1	2558.3	2126.9	1785.4	1554.7	1357.5	1188.5	1065.2	1001.8	984.2	996.6
12.5°	2836.5	2528.4	1975.5	1581.1	1315.2	1063.5	906.8	845.1	827.5	820.5	822.2
15°	2899.9	2491.4	1817.0	1383.9	1047.6	848.7	776.5	760.6	753.6	750.1	746.5
17.5°	2958.0	2431.5	1639.2	1192.0	848.7	725.4	699.0	684.9	670.8	665.5	656.7
20°	3026.6	2362.9	1479.0	977.2	718.4	656.7	625.0	598.6	577.5	563.4	561.7
22.5°	3091.8	2274.8	1311.7	809.9	655.0	589.8	538.8	510.6	486.0	468.3	473.6
25°	3127.0	2167.4	1162.1	706.0	596.9	522.9	466.6	431.4	405.0	396.2	394.4
27.5°	3127.0	2035.4	1015.9	646.2	544.1	463.1	405.0	371.5	353.9	341.6	343.3
30°	3102.4	1889.2	880.4	600.4	498.3	410.2	355.7	325.7	311.6	302.8	301.1
32.5°	3083.0	1750.1	764.1	556.4	450.7	364.5	316.9	294.0	280.0	271.1	271.1
35°	3112.9	1630.4	674.3	512.4	406.7	329.3	287.0	265.9	251.8	244.7	243.0
37.5°	3192.2	1521.2	605.7	464.8	366.2	299.3	265.9	241.2	227.1	218.3	214.8
40°	3387.6	1459.6	554.6	420.8	327.5	274.7	241.2	218.3	200.7	191.9	190.2
42.5°	3701.0	1461.4	505.3	380.3	297.6	253.5	220.1	193.7	174.3	165.5	163.7
45°	4172.9	1528.3	466.6	341.6	271.1	230.7	197.2	169.0	151.4	142.6	142.6
47.5°	4738.0	1658.6	433.1	308.1	246.5	209.5	174.3	146.1	128.5	121.5	121.5
50°	5350.8	1827.6	399.7	272.9	225.4	186.6	149.7	126.8	112.7	107.4	107.4
52.5°	5975.8	2031.8	366.2	244.7	202.5	162.0	128.5	112.7	100.4	96.8	95.1
55°	6796.3	2292.4	331.0	214.8	177.8	139.1	114.4	98.6	84.5	79.2	77.5
57.5°	8058.7	2685.1	292.3	188.4	146.1	116.2	98.6	82.8	66.9	58.1	56.3
60°	9581.7	3164.0	251.8	165.5	118.0	95.1	79.2	63.4	49.3	38.7	37.0
62.5°	11007.9	3468.6	213.0	139.1	93.3	72.2	56.3	47.5	35.2	24.6	22.9
65°	11638.2	3366.5	176.1	112.7	73.9	51.1	37.0	33.5	21.1	10.6	8.8
66°	11428.7	3215.0	162.0	102.1	66.9	44.0	31.7	28.2	15.8	5.3	5.3
67.5°	10810.7	2857.6	140.9	88.0	58.1	35.2	24.6	21.1	8.8	1.8	0.0
70°	9263.1	2311.8	110.9	65.1	42.3	24.6	14.1	10.6	5.3	0.0	0.0
72.5°	7115.0	1722.0	88.0	49.3	29.9	14.1	7.0	3.5	5.3	0.0	0.0
75°	4359.5	984.2	68.7	37.0	19.4	8.8	5.3	0.0	5.3	1.8	0.0
77.5°	1935.0	441.9	45.8	24.6	14.1	7.0	3.5	0.0	3.5	1.8	0.0
80°	489.5	144.4	26.4	17.6	10.6	5.3	1.8	0.0	3.5	3.5	1.8
82.5°	133.8	52.8	19.4	14.1	8.8	5.3	1.8	0.0	3.5	3.5	3.5
85°	52.8	24.6	17.6	14.1	10.6	5.3	1.8	0.0	3.5	3.5	3.5
87.5°	24.6	17.6	17.6	15.8	12.3	5.3	1.8	0.0	3.5	1.8	3.5
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)