

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: P455311

Luminaire Tested: **GALN-SA6C-727-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P455311  
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-SA6C-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 2700K, 1050mA 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: 26064 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G4

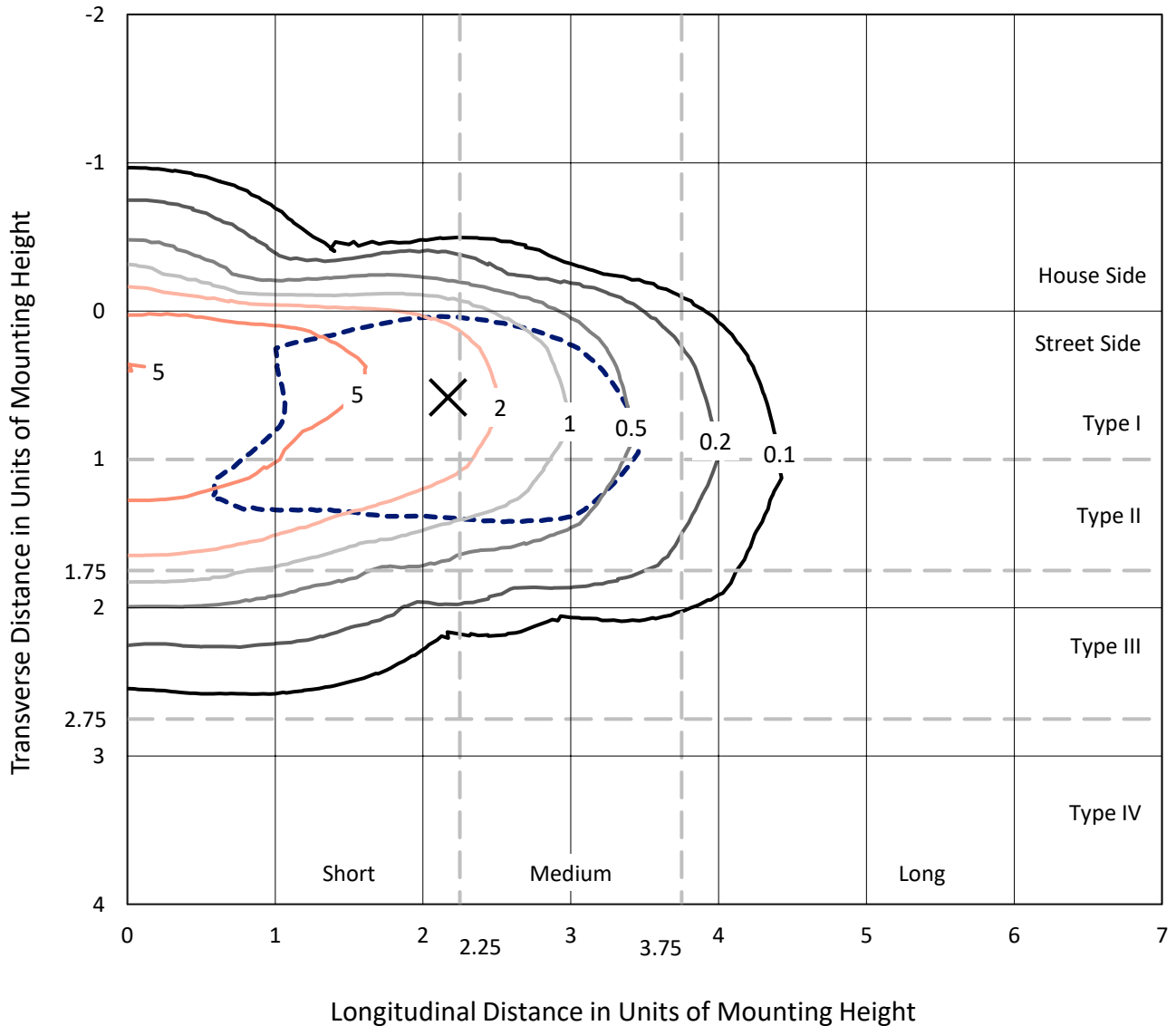
Input Watts (W): 321  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

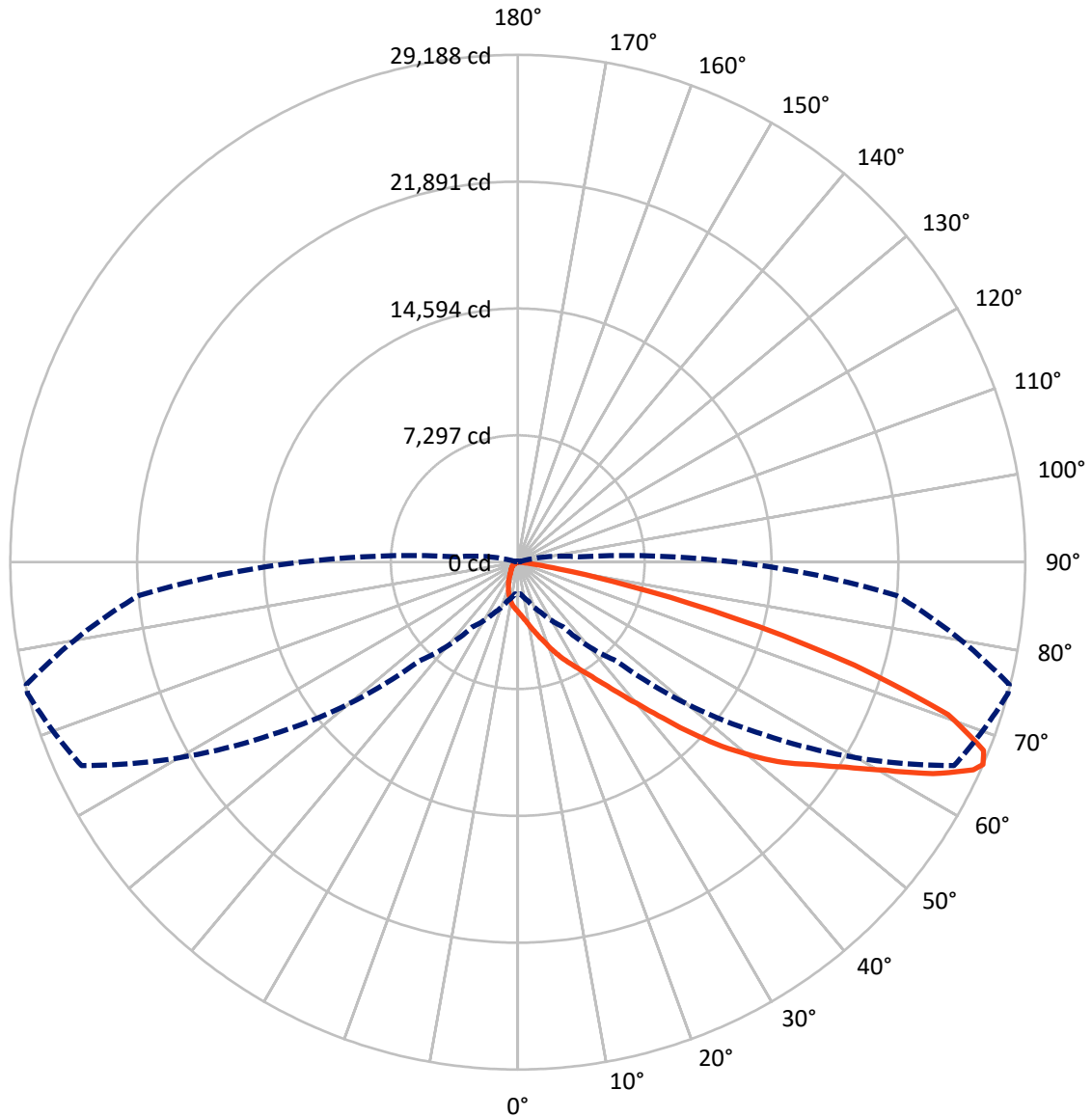
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 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	1609.1	0.0	1609.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	24454.9	0.0	24454.9
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	26064.0	0.0	26064.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	274.9	1.1
10°-20°	809.1	3.1
20°-30°	1397.1	5.4
30°-40°	2520.2	9.7
40°-50°	4552.8	17.5
50°-60°	7097.8	27.2
60°-70°	6742.6	25.9
70°-80°	2527.0	9.7
80°-90°	142.6	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°	26064.0	100.0
0°-180°	26064.0	100.0

**Coefficient of Utilization**



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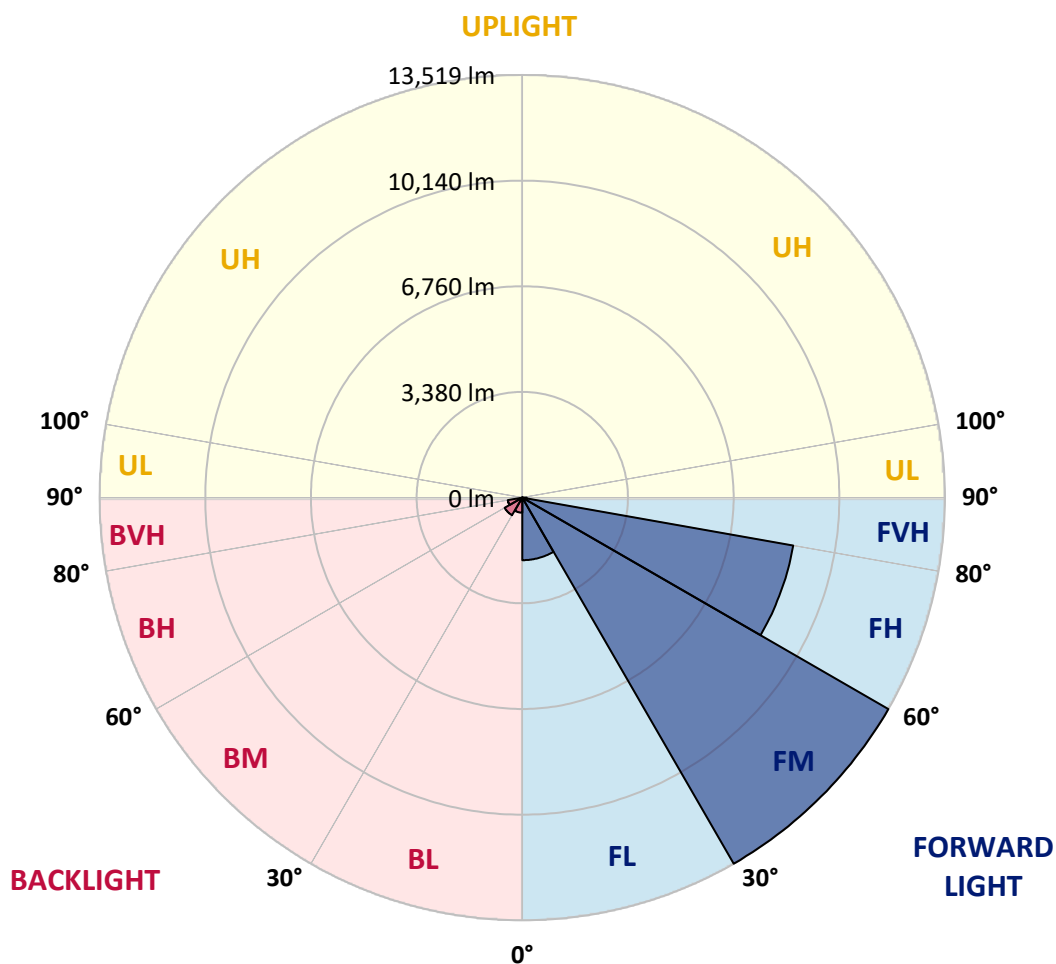
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2000.6	7.7			
FM (30°-60°)	13519.4	51.9			
FH (60°-80°)	8799.7	33.8			G4/12000
FVH (80°-90°)	135.2	0.5			G2/225
BL (0°-30°)	480.5	1.8	B1/500		
BM (30°-60°)	651.3	2.5	B1/1000		
BH (60°-80°)	469.9	1.8	B1/500		G1/500
BVH (80°-90°)	7.4	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°	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4
2.5°	3405.4	3363.0	3376.5	3357.2	3312.9	3247.4	3189.5	3106.7	3023.8	3010.3	2917.8
5°	3854.4	3842.9	3827.5	3771.6	3740.7	3640.5	3521.0	3378.4	3206.9	3176.1	3008.4
7.5°	4160.9	4155.1	4162.8	4133.9	4106.9	4016.3	3889.1	3694.5	3428.5	3411.2	3131.7
10°	4261.1	4276.5	4305.4	4351.7	4394.1	4365.1	4268.8	4026.0	3715.7	3665.6	3272.4
12.5°	4203.3	4220.6	4290.0	4413.3	4550.2	4629.2	4590.6	4413.3	4020.2	3979.7	3430.4
15°	4054.9	4076.1	4174.4	4365.1	4609.9	4833.5	4929.8	4802.6	4374.8	4309.3	3621.2
17.5°	3835.2	3866.0	4006.7	4259.2	4594.5	4979.9	5251.7	5209.3	4752.5	4690.8	3829.4
20°	3669.4	3692.6	3812.0	4101.1	4529.0	5060.9	5558.1	5677.6	5218.9	5112.9	4074.1
22.5°	3779.3	3787.0	3827.5	4000.9	4411.4	5082.1	5827.9	6165.2	5714.2	5619.8	4328.5
25°	4317.0	4239.9	4199.4	4160.9	4386.3	5062.8	6072.7	6674.0	6207.6	6107.4	4581.0
27.5°	5164.9	5130.3	4926.0	4652.3	4600.3	5087.9	6234.6	7155.8	6672.0	6564.1	4827.7
30°	6088.1	6028.3	5903.1	5502.2	5099.4	5265.2	6352.1	7624.1	7221.3	7078.7	5053.2
32.5°	6936.1	6974.6	6787.7	6375.2	5908.9	5642.9	6504.4	8134.8	7851.5	7674.2	5315.3
35°	7924.7	8001.8	7714.7	7319.6	6774.2	6325.1	6801.2	8711.0	8651.3	8427.7	5720.0
37.5°	8928.8	8975.1	8799.7	8244.6	7753.2	7192.4	7360.0	9422.2	9636.1	9445.3	6203.7
40°	9772.9	9836.5	9707.4	9214.0	8689.8	8196.5	8171.4	10196.9	10807.8	10611.3	6924.5
42.5°	10418.5	10466.7	10470.6	10121.8	9649.6	9426.0	9206.3	11185.6	12276.4	12049.0	7760.9
45°	11233.8	11303.1	11262.7	11025.6	10672.9	10632.5	10518.8	12380.5	14034.0	13746.8	8845.9
47.5°	12494.2	12540.4	12440.2	12160.7	11802.3	11865.9	11798.4	13719.9	15826.3	15579.6	9969.5
50°	13369.1	13446.2	13588.8	13700.6	13440.4	13205.3	13004.9	14970.6	17528.1	17306.4	11118.1
52.5°	13359.5	13486.7	13937.6	14500.4	15068.9	14997.6	14421.4	16352.4	19152.7	18879.0	12197.4
55°	12459.5	12706.2	13369.1	14367.4	15942.0	16726.3	16464.2	17952.0	20555.7	20370.7	13448.1
57.5°	10601.6	10752.0	11673.2	13068.5	15454.4	17539.6	18830.9	20120.2	22238.2	22151.4	15390.8
60°	7130.7	7198.2	8383.4	10108.3	13157.1	16728.3	20565.3	22743.1	24309.9	24267.5	17659.1
62.5°	4085.7	4114.6	4974.2	6429.2	9362.4	14176.6	20711.8	25978.9	26794.1	26817.2	20284.0
65°	2199.0	2214.4	2908.2	3773.5	5696.9	10104.4	18624.6	27751.9	28802.3	28846.6	21910.5
66°	1898.3	1825.1	2314.6	3216.5	4532.8	8042.3	17304.5	27688.3	29187.7	29139.5	21852.7
67.5°	1443.5	1509.0	1848.2	2472.6	3359.1	5718.1	14286.5	26456.9	28894.8	28744.5	20964.3
70°	1033.0	1060.0	1316.3	1763.4	2287.6	3137.5	9129.2	21974.1	26262.2	26059.8	18264.2
72.5°	666.8	695.7	932.8	1275.8	1653.6	1713.3	5111.0	15876.4	20247.4	20218.4	13754.6
75°	476.0	503.0	616.7	913.5	1243.1	1060.0	2461.1	10699.9	12871.9	12785.2	8508.7
77.5°	345.0	358.5	412.4	597.4	888.4	759.3	1140.9	5714.2	6408.0	6710.6	3760.0
80°	198.5	210.1	287.2	364.2	601.3	518.4	545.4	2293.4	2364.7	2251.0	1175.6
82.5°	98.3	111.8	171.5	248.6	375.8	348.8	250.5	689.9	728.5	709.2	296.8
85°	23.1	28.9	96.4	163.8	183.1	156.1	121.4	202.4	250.5	244.8	113.7
87.5°	1.9	3.9	34.7	28.9	30.8	52.0	42.4	52.0	80.9	75.2	40.5
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°	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4	2850.4
2.5°	2875.4	2838.8	2732.8	2628.7	2542.0	2451.4	2368.6	2320.4	2301.1	2279.9	2289.5
5°	2915.9	2827.2	2613.3	2428.3	2247.1	2093.0	1969.6	1890.6	1852.1	1846.3	1836.6
7.5°	2969.8	2817.6	2486.1	2197.0	1960.0	1788.5	1647.8	1534.1	1499.4	1468.5	1443.5
10°	3035.4	2800.2	2328.1	1954.2	1701.7	1485.9	1300.9	1166.0	1096.6	1077.3	1090.8
12.5°	3104.7	2767.5	2162.3	1730.6	1439.6	1164.0	992.5	925.1	905.8	898.1	900.0
15°	3174.1	2727.0	1988.9	1514.8	1146.7	928.9	849.9	832.6	824.8	821.0	817.1
17.5°	3237.7	2661.5	1794.2	1304.7	928.9	794.0	765.1	749.7	734.3	728.5	718.9
20°	3312.9	2586.3	1618.9	1069.6	786.3	718.9	684.2	655.3	632.1	616.7	614.8
22.5°	3384.2	2490.0	1435.8	886.5	716.9	645.6	589.7	558.9	531.9	512.6	518.4
25°	3422.7	2372.4	1272.0	772.8	653.3	572.4	510.7	472.2	443.3	433.6	431.7
27.5°	3422.7	2227.9	1112.0	707.3	595.5	506.9	443.3	406.6	387.4	373.9	375.8
30°	3395.8	2067.9	963.6	657.2	545.4	449.0	389.3	356.5	341.1	331.5	329.6
32.5°	3374.6	1915.7	836.4	609.0	493.4	398.9	346.9	321.8	306.4	296.8	296.8
35°	3407.3	1784.6	738.1	560.8	445.2	360.4	314.1	291.0	275.6	267.9	266.0
37.5°	3494.0	1665.1	663.0	508.8	400.9	327.6	291.0	264.0	248.6	239.0	235.1
40°	3708.0	1597.7	607.1	460.6	358.5	300.6	264.0	239.0	219.7	210.1	208.1
42.5°	4051.0	1599.6	553.1	416.3	325.7	277.5	240.9	212.0	190.8	181.2	179.2
45°	4567.5	1672.8	510.7	373.9	296.8	252.5	215.8	185.0	165.7	156.1	156.1
47.5°	5186.1	1815.4	474.1	337.3	269.8	229.3	190.8	160.0	140.7	133.0	133.0
50°	5856.8	2000.5	437.5	298.7	246.7	204.3	163.8	138.8	123.3	117.6	117.6
52.5°	6541.0	2224.0	400.9	267.9	221.6	177.3	140.7	123.3	109.9	106.0	104.1
55°	7439.1	2509.2	362.3	235.1	194.6	152.3	125.3	107.9	92.5	86.7	84.8
57.5°	8820.9	2939.0	319.9	206.2	160.0	127.2	107.9	90.6	73.2	63.6	61.7
60°	10487.9	3463.2	275.6	181.2	129.1	104.1	86.7	69.4	54.0	42.4	40.5
62.5°	12049.0	3796.6	233.2	152.3	102.1	79.0	61.7	52.0	38.5	27.0	25.1
65°	12738.9	3684.8	192.7	123.3	80.9	55.9	40.5	36.6	23.1	11.6	9.6
66°	12509.6	3519.1	177.3	111.8	73.2	48.2	34.7	30.8	17.3	5.8	5.8
67.5°	11833.1	3127.9	154.2	96.4	63.6	38.5	27.0	23.1	9.6	1.9	0.0
70°	10139.1	2530.4	121.4	71.3	46.3	27.0	15.4	11.6	5.8	0.0	0.0
72.5°	7787.9	1884.8	96.4	54.0	32.8	15.4	7.7	3.9	5.8	0.0	0.0
75°	4771.8	1077.3	75.2	40.5	21.2	9.6	5.8	0.0	5.8	1.9	0.0
77.5°	2118.0	483.7	50.1	27.0	15.4	7.7	3.9	0.0	3.9	1.9	0.0
80°	535.8	158.0	28.9	19.3	11.6	5.8	1.9	0.0	3.9	3.9	1.9
82.5°	146.5	57.8	21.2	15.4	9.6	5.8	1.9	0.0	3.9	3.9	3.9
85°	57.8	27.0	19.3	15.4	11.6	5.8	1.9	0.0	3.9	3.9	3.9
87.5°	27.0	19.3	19.3	17.3	13.5	5.8	1.9	0.0	3.9	1.9	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

(END OF REPORT)