

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: P454383

Luminaire Tested: **GALN-SA5C-727-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454383  
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-SA5C-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 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: 22012 lumens  
Efficiency: N/A  
Efficacy: 81.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3

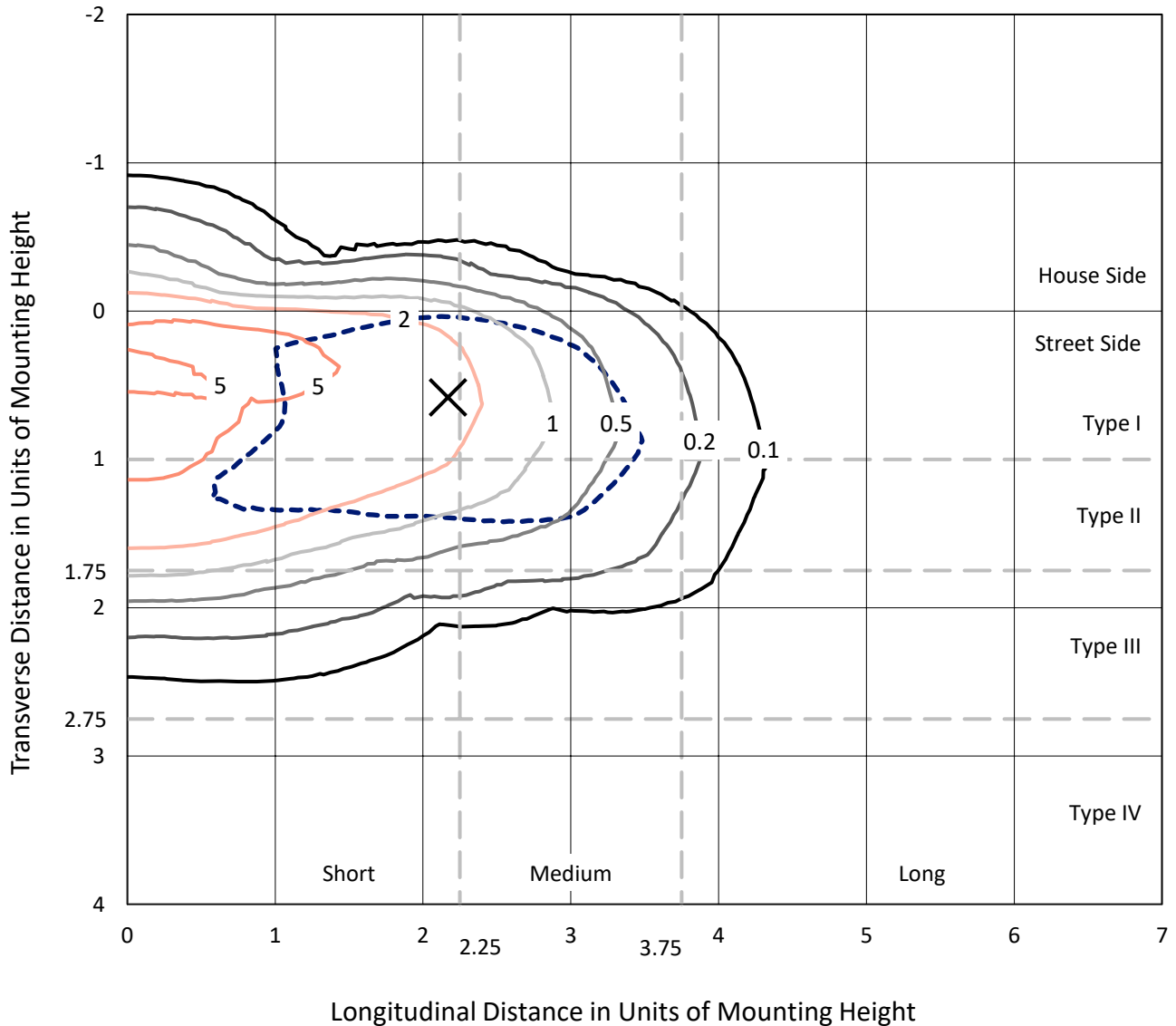
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

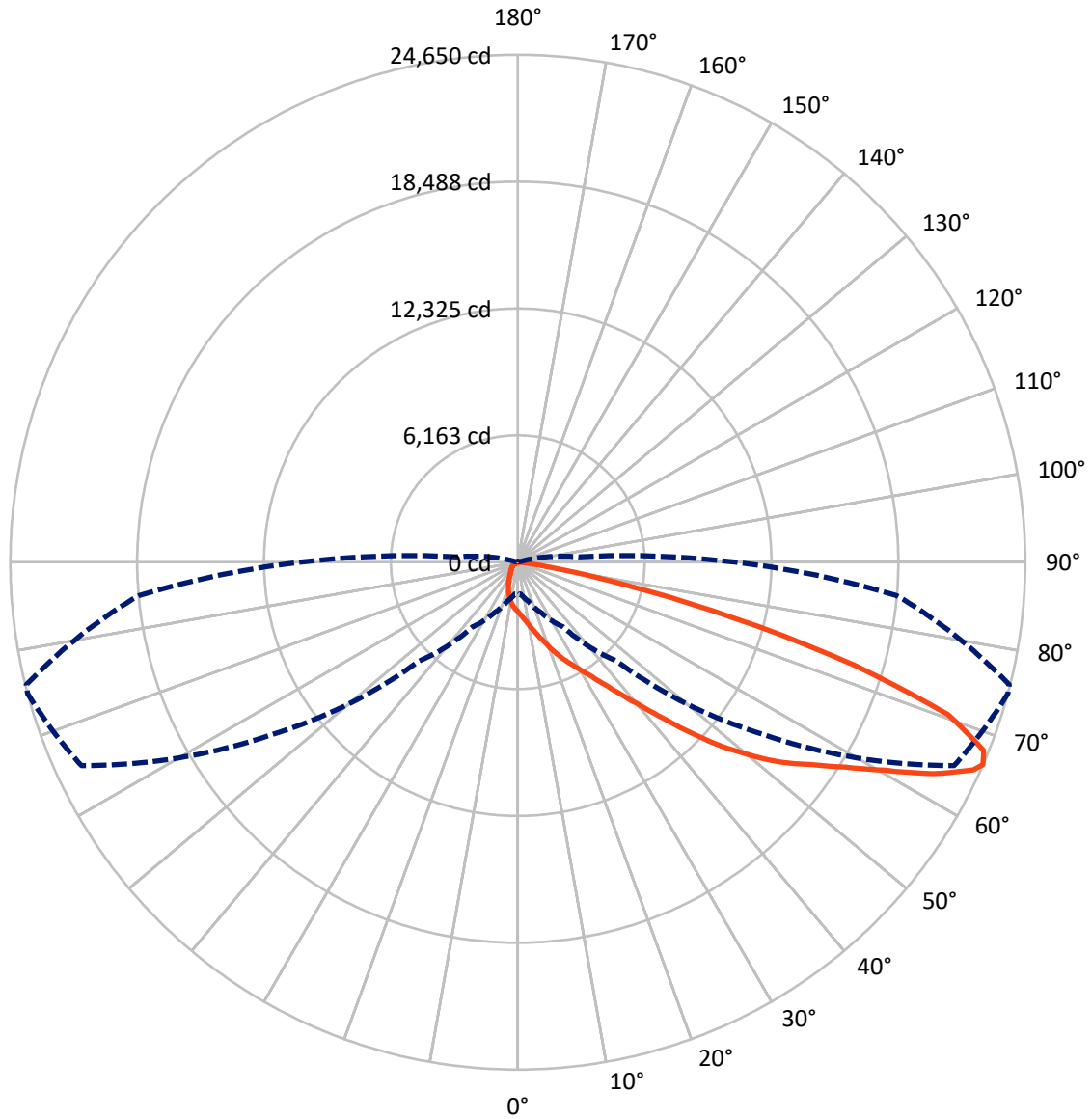
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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	1358.9	0.0	1358.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	20653.1	0.0	20653.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	22012.0	0.0	22012.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	232.2	1.1
10°-20°	683.3	3.1
20°-30°	1179.9	5.4
30°-40°	2128.4	9.7
40°-50°	3845.0	17.5
50°-60°	5994.3	27.2
60°-70°	5694.4	25.9
70°-80°	2134.1	9.7
80°-90°	120.4	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°	22012.0	100.0
0°-180°	22012.0	100.0

**Coefficient of Utilization**



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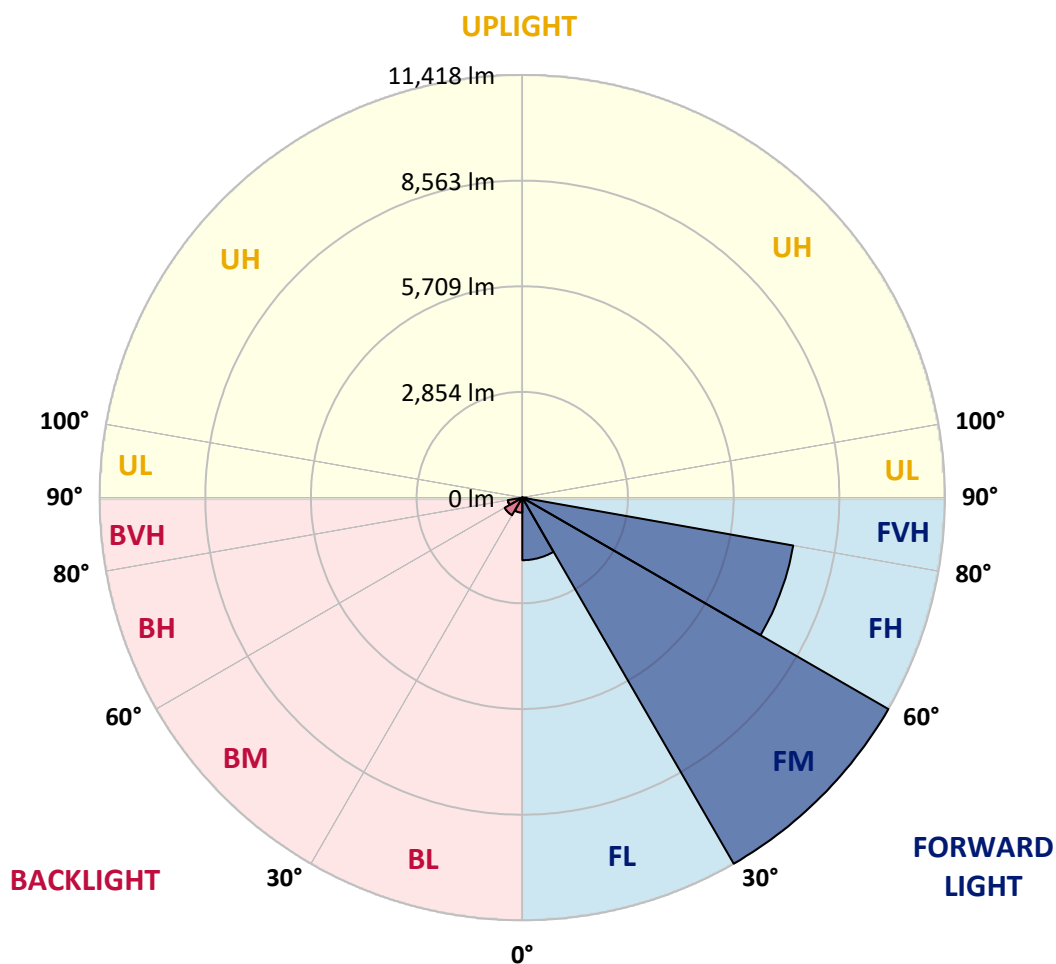
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1689.6	7.7			
FM (30°-60°)	11417.6	51.9			
FH (60°-80°)	7431.7	33.8			G3/7500
FVH (80°-90°)	114.2	0.5			G2/225
BL (0°-30°)	405.8	1.8	B1/500		
BM (30°-60°)	550.1	2.5	B1/1000		
BH (60°-80°)	396.8	1.8	B1/500		G1/500
BVH (80°-90°)	6.2	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2
2.5°	2876.0	2840.2	2851.6	2835.3	2797.9	2742.5	2693.7	2623.7	2553.7	2542.3	2464.2
5°	3255.2	3245.4	3232.4	3185.2	3159.2	3074.5	2973.6	2853.2	2708.3	2682.3	2540.7
7.5°	3514.0	3509.1	3515.6	3491.2	3468.4	3391.9	3284.5	3120.1	2895.5	2880.9	2644.9
10°	3598.6	3611.7	3636.1	3675.1	3710.9	3686.5	3605.1	3400.1	3138.0	3095.7	2763.7
12.5°	3549.8	3564.5	3623.1	3727.2	3842.8	3909.5	3877.0	3727.2	3395.2	3361.0	2897.1
15°	3424.5	3442.4	3525.4	3686.5	3893.2	4082.0	4163.4	4056.0	3694.7	3639.3	3058.3
17.5°	3238.9	3265.0	3383.8	3597.0	3880.2	4205.7	4435.2	4399.4	4013.7	3961.6	3234.1
20°	3099.0	3118.5	3219.4	3463.5	3824.9	4274.1	4694.0	4794.9	4407.6	4318.0	3440.8
22.5°	3191.7	3198.2	3232.4	3378.9	3725.6	4292.0	4921.9	5206.7	4825.9	4746.1	3655.6
25°	3645.8	3580.7	3546.6	3514.0	3704.4	4275.7	5128.6	5636.4	5242.5	5157.9	3868.8
27.5°	4362.0	4332.7	4160.2	3929.0	3885.1	4296.9	5265.3	6043.3	5634.8	5543.6	4077.2
30°	5141.6	5091.2	4985.4	4646.8	4306.6	4446.6	5364.6	6438.8	6098.6	5978.2	4267.6
32.5°	5857.8	5890.3	5732.4	5384.1	4990.2	4765.6	5493.2	6870.1	6630.9	6481.1	4488.9
35°	6692.7	6757.8	6515.3	6181.6	5721.0	5341.8	5743.8	7356.8	7306.3	7117.5	4830.7
37.5°	7540.7	7579.8	7431.7	6962.9	6547.9	6074.2	6215.8	7957.4	8138.0	7976.9	5239.3
40°	8253.6	8307.3	8198.3	7781.6	7338.9	6922.2	6901.1	8611.7	9127.6	8961.6	5848.0
42.5°	8798.8	8839.5	8842.8	8548.2	8149.4	7960.6	7775.1	9446.6	10367.9	10175.8	6554.4
45°	9487.3	9545.9	9511.7	9311.5	9013.7	8979.5	8883.5	10455.7	11852.2	11609.7	7470.7
47.5°	10551.8	10590.8	10506.2	10270.2	9967.5	10021.2	9964.2	11586.9	13365.9	13157.6	8419.6
50°	11290.7	11355.8	11476.3	11570.7	11350.9	11152.4	10983.1	12643.2	14803.1	14615.9	9389.7
52.5°	11282.6	11390.0	11770.8	12246.1	12726.3	12666.0	12179.4	13810.2	16175.2	15944.0	10301.1
55°	10522.5	10730.8	11290.7	12133.8	13463.6	14126.0	13904.6	15161.2	17360.0	17203.8	11357.4
57.5°	8953.5	9080.4	9858.4	11036.8	13051.8	14812.8	15903.3	16992.2	18780.9	18707.7	12998.1
60°	6022.1	6079.1	7080.1	8536.8	11111.7	14127.6	17368.2	19207.4	20530.6	20494.8	14913.8
62.5°	3450.5	3474.9	4200.9	5429.7	7906.9	11972.7	17491.9	21940.1	22628.6	22648.1	17130.6
65°	1857.1	1870.1	2456.1	3186.9	4811.2	8533.5	15729.2	23437.5	24324.6	24362.0	18504.3
66°	1603.2	1541.3	1954.8	2716.5	3828.1	6792.0	14614.3	23383.8	24650.1	24609.4	18455.4
67.5°	1219.1	1274.4	1560.9	2088.2	2836.9	4829.1	12065.4	22343.8	24402.7	24275.7	17705.1
70°	872.4	895.2	1111.7	1489.3	1932.0	2649.7	7710.0	18558.0	22179.4	22008.5	15424.8
72.5°	563.2	587.6	787.8	1077.5	1396.5	1446.9	4316.4	13408.2	17099.6	17075.2	11616.2
75°	402.0	424.8	520.8	771.5	1049.8	895.2	2078.5	9036.5	10870.8	10797.5	7185.9
77.5°	291.3	302.7	348.3	504.6	750.3	641.3	963.5	4825.9	5411.8	5667.3	3175.5
80°	167.6	177.4	242.5	307.6	507.8	437.8	460.6	1936.9	1997.1	1901.0	992.8
82.5°	83.0	94.4	144.9	210.0	317.4	294.6	211.6	582.7	615.2	599.0	250.7
85°	19.5	24.4	81.4	138.3	154.6	131.8	102.5	170.9	211.6	206.7	96.0
87.5°	1.6	3.3	29.3	24.4	26.0	43.9	35.8	43.9	68.4	63.5	34.2
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°	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2	2407.2
2.5°	2428.4	2397.5	2307.9	2220.1	2146.8	2070.3	2000.3	1959.6	1943.4	1925.5	1933.6
5°	2462.6	2387.7	2207.0	2050.8	1897.8	1767.6	1663.4	1596.7	1564.1	1559.2	1551.1
7.5°	2508.1	2379.6	2099.6	1855.5	1655.3	1510.4	1391.6	1295.6	1266.3	1240.2	1219.1
10°	2563.5	2364.9	1966.1	1650.4	1437.2	1254.9	1098.6	984.7	926.1	909.8	921.2
12.5°	2622.1	2337.2	1826.2	1461.6	1215.8	983.1	838.2	781.3	765.0	758.5	760.1
15°	2680.7	2303.1	1679.7	1279.3	968.4	784.5	717.8	703.1	696.6	693.4	690.1
17.5°	2734.4	2247.7	1515.3	1101.9	784.5	670.6	646.2	633.1	620.1	615.2	607.1
20°	2797.9	2184.2	1367.2	903.3	664.1	607.1	577.8	553.4	533.9	520.8	519.2
22.5°	2858.1	2102.9	1212.6	748.7	605.5	545.2	498.0	472.0	449.2	432.9	437.8
25°	2890.6	2003.6	1074.2	652.7	551.8	483.4	431.3	398.8	374.3	366.2	364.6
27.5°	2890.6	1881.5	939.1	597.3	502.9	428.1	374.3	343.4	327.1	315.8	317.4
30°	2867.8	1746.4	813.8	555.0	460.6	379.2	328.8	301.1	288.1	279.9	278.3
32.5°	2849.9	1617.8	706.4	514.3	416.7	336.9	293.0	271.8	258.8	250.7	250.7
35°	2877.6	1507.2	623.4	473.6	376.0	304.4	265.3	245.8	232.7	226.2	224.6
37.5°	2950.9	1406.3	559.9	429.7	338.5	276.7	245.8	223.0	210.0	201.8	198.6
40°	3131.5	1349.3	512.7	389.0	302.7	253.9	223.0	201.8	185.5	177.4	175.8
42.5°	3421.2	1350.9	467.1	351.6	275.1	234.4	203.5	179.0	161.1	153.0	151.4
45°	3857.4	1412.8	431.3	315.8	250.7	213.2	182.3	156.3	140.0	131.8	131.8
47.5°	4379.9	1533.2	400.4	284.8	227.9	193.7	161.1	135.1	118.8	112.3	112.3
50°	4946.3	1689.5	369.5	252.3	208.3	172.5	138.3	117.2	104.2	99.3	99.3
52.5°	5524.1	1878.3	338.5	226.2	187.2	149.7	118.8	104.2	92.8	89.5	87.9
55°	6282.6	2119.1	306.0	198.6	164.4	128.6	105.8	91.1	78.1	73.2	71.6
57.5°	7449.6	2482.1	270.2	174.2	135.1	107.4	91.1	76.5	61.8	53.7	52.1
60°	8857.4	2924.8	232.7	153.0	109.0	87.9	73.2	58.6	45.6	35.8	34.2
62.5°	10175.8	3206.4	196.9	128.6	86.3	66.7	52.1	43.9	32.6	22.8	21.2
65°	10758.5	3112.0	162.8	104.2	68.4	47.2	34.2	30.9	19.5	9.8	8.1
66°	10564.8	2972.0	149.7	94.4	61.8	40.7	29.3	26.0	14.6	4.9	4.9
67.5°	9993.5	2641.6	130.2	81.4	53.7	32.6	22.8	19.5	8.1	1.6	0.0
70°	8562.8	2137.0	102.5	60.2	39.1	22.8	13.0	9.8	4.9	0.0	0.0
72.5°	6577.2	1591.8	81.4	45.6	27.7	13.0	6.5	3.3	4.9	0.0	0.0
75°	4030.0	909.8	63.5	34.2	17.9	8.1	4.9	0.0	4.9	1.6	0.0
77.5°	1788.7	408.5	42.3	22.8	13.0	6.5	3.3	0.0	3.3	1.6	0.0
80°	452.5	133.5	24.4	16.3	9.8	4.9	1.6	0.0	3.3	3.3	1.6
82.5°	123.7	48.8	17.9	13.0	8.1	4.9	1.6	0.0	3.3	3.3	3.3
85°	48.8	22.8	16.3	13.0	9.8	4.9	1.6	0.0	3.3	3.3	3.3
87.5°	22.8	16.3	16.3	14.6	11.4	4.9	1.6	0.0	3.3	1.6	3.3
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)