

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: P456935

Luminaire Tested: **GALN-SA8B-727-U-T2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456935  
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-SA8B-727-U-T2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K, 800mA 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: 28726 lumens  
Efficiency: N/A  
Efficacy: 88.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G4

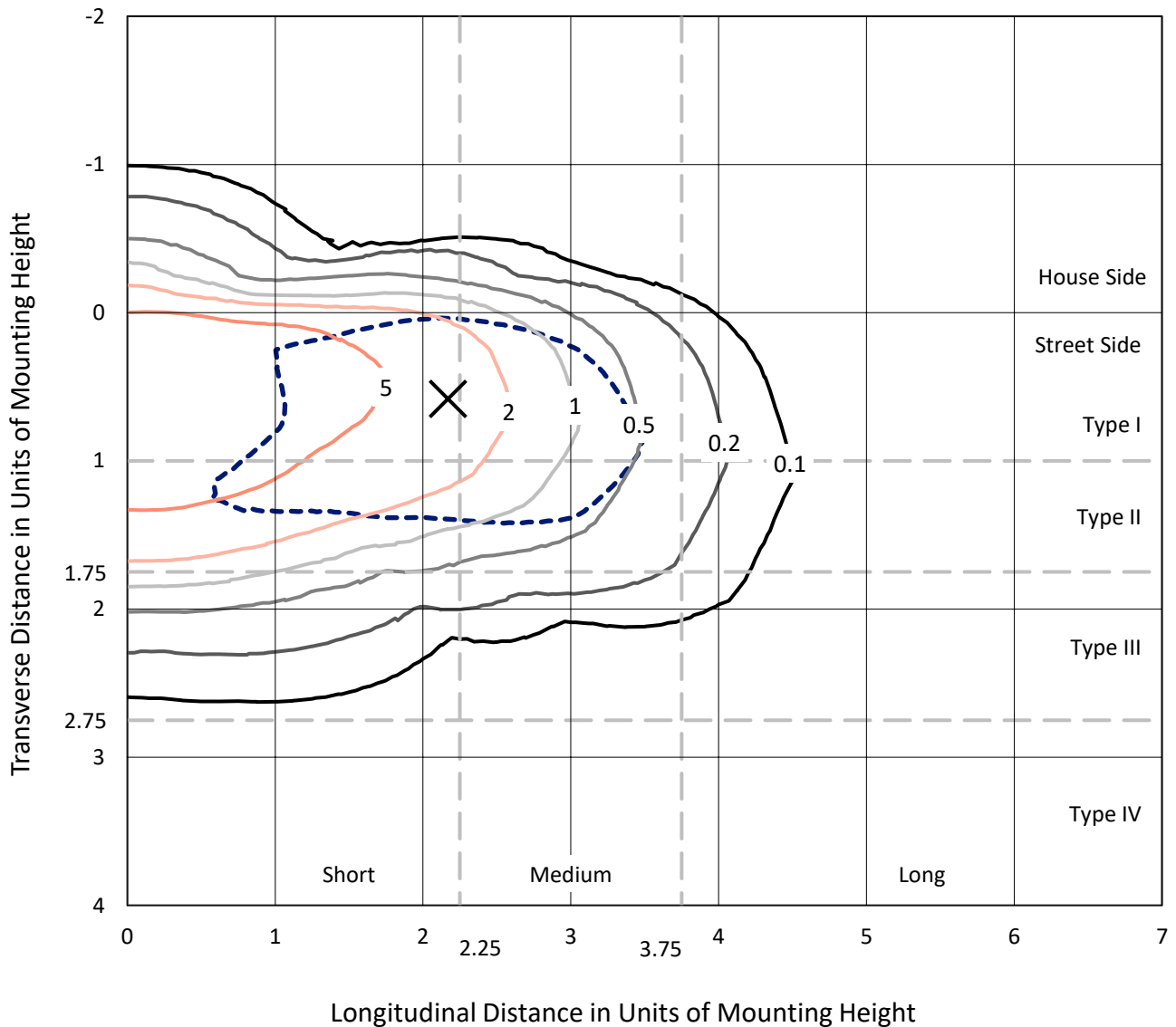
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P456935  
 CATALOG NUMBER: GALN-SA8B-727-U-T2-HSS

### Iso-Footcandle Lines of Horizontal Illumination

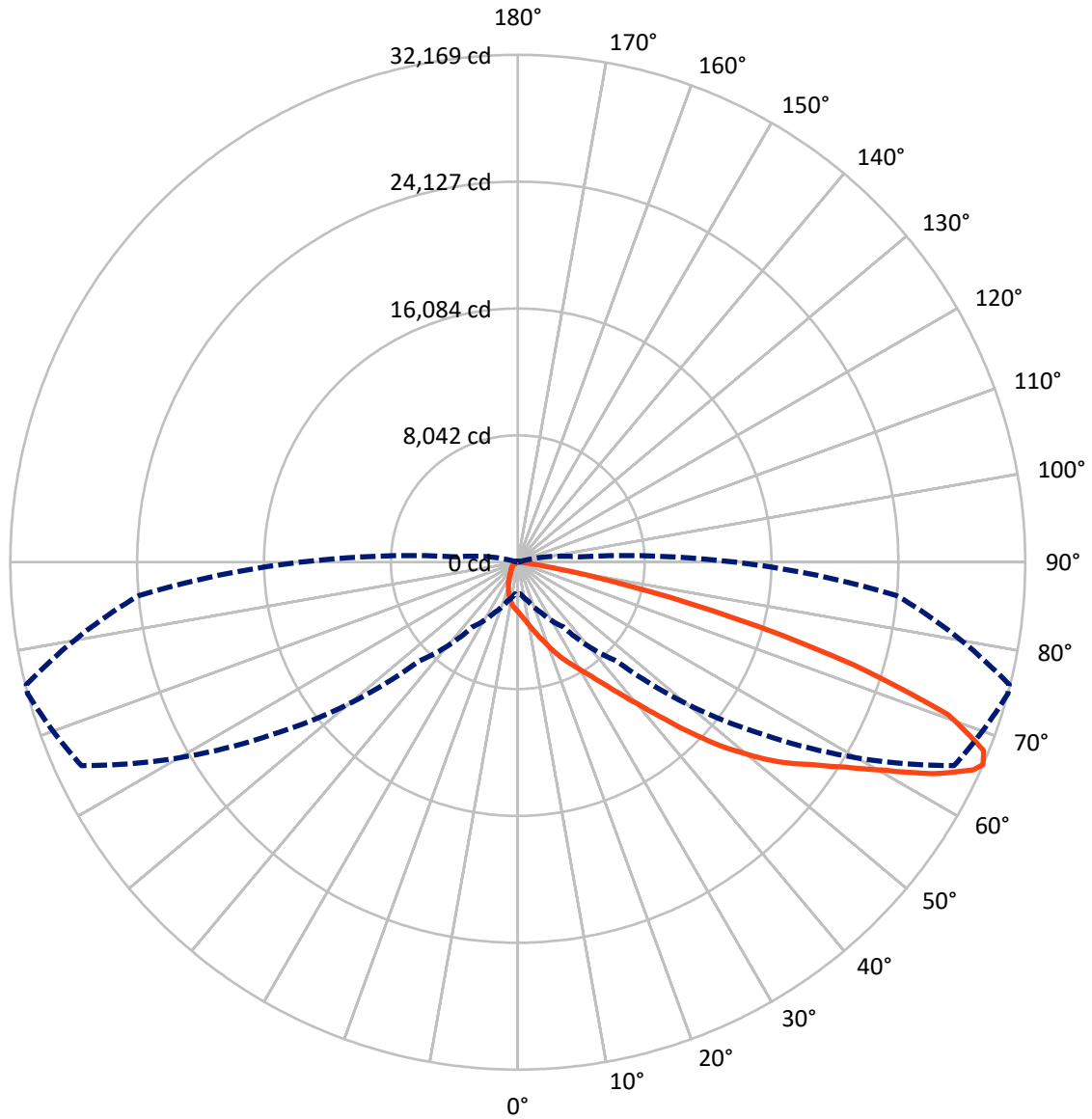
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P456935  
CATALOG NUMBER: GALN-SA8B-727-U-T2-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P456935

CATALOG NUMBER: GALN-SA8B-727-U-T2-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1773.4	0.0	1773.4
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	26952.6	0.0	26952.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	28726.0	0.0	28726.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	303.0	1.1
10°-20°	891.7	3.1
20°-30°	1539.8	5.4
30°-40°	2777.6	9.7
40°-50°	5017.7	17.5
50°-60°	7822.7	27.2
60°-70°	7431.2	25.9
70°-80°	2785.0	9.7
80°-90°	157.1	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°	28726.0	100.0
0°-180°	28726.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P456935

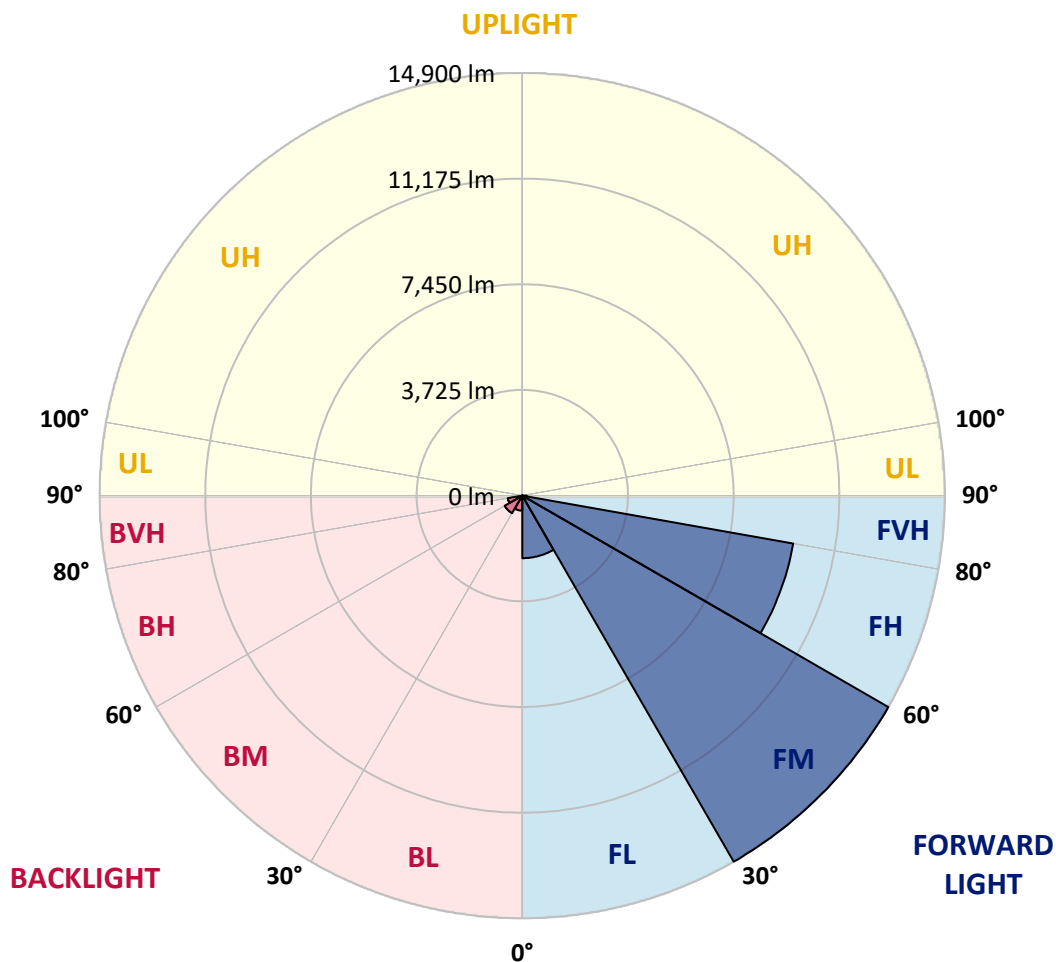
CATALOG NUMBER: GALN-SA8B-727-U-T2-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2205.0	7.7			
FM (30°-60°)	14900.2	51.9			
FH (60°-80°)	9698.4	33.8			G4/12000
FVH (80°-90°)	149.0	0.5			G2/225
BL (0°-30°)	529.6	1.8	B2/1000		
BM (30°-60°)	717.8	2.5	B1/1000		
BH (60°-80°)	517.8	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.1	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 II Short





REPORT NUMBER: P456935

CATALOG NUMBER: GALN-SA8B-727-U-T2-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5
2.5°	3753.2	3706.5	3721.3	3700.1	3651.2	3579.0	3515.3	3424.0	3332.6	3317.8	3215.8
5°	4248.1	4235.4	4218.4	4156.8	4122.8	4012.3	3880.6	3723.5	3534.4	3500.4	3315.6
7.5°	4585.8	4579.5	4588.0	4556.1	4526.4	4426.5	4286.3	4071.8	3778.7	3759.6	3451.6
10°	4696.3	4713.3	4745.1	4796.1	4842.8	4811.0	4704.8	4437.1	4095.2	4039.9	3606.6
12.5°	4632.6	4651.7	4728.1	4864.1	5014.9	5102.0	5059.5	4864.1	4430.8	4386.2	3780.8
15°	4469.0	4492.4	4600.7	4811.0	5080.7	5327.1	5433.3	5293.1	4821.6	4749.4	3991.1
17.5°	4226.9	4260.8	4415.9	4694.2	5063.7	5488.5	5788.0	5741.3	5237.9	5169.9	4220.5
20°	4044.2	4069.7	4201.4	4520.0	4991.5	5577.8	6125.8	6257.5	5751.9	5635.1	4490.2
22.5°	4165.3	4173.8	4218.4	4409.5	4862.0	5601.1	6423.1	6794.8	6297.8	6193.7	4770.6
25°	4757.9	4672.9	4628.3	4585.8	4834.3	5579.9	6692.9	7355.6	6841.6	6731.1	5048.9
27.5°	5692.5	5654.2	5429.1	5127.5	5070.1	5607.5	6871.3	7886.6	7353.5	7234.5	5320.7
30°	6709.9	6644.0	6506.0	6064.2	5620.2	5802.9	7000.9	8402.7	7958.8	7801.6	5569.3
32.5°	7644.5	7686.9	7480.9	7026.4	6512.3	6219.2	7168.7	8965.6	8653.4	8458.0	5858.1
35°	8734.1	8819.1	8502.6	8067.1	7466.0	6971.1	7495.8	9600.7	9534.9	9288.5	6304.2
37.5°	9840.7	9891.7	9698.4	9086.7	8545.1	7927.0	8111.8	10384.5	10620.3	10410.0	6837.3
40°	10771.1	10841.2	10698.8	10155.1	9577.3	9033.6	9006.0	11238.4	11911.7	11695.0	7631.7
42.5°	11482.6	11535.7	11540.0	11155.5	10635.1	10388.7	10146.6	12328.0	13530.2	13279.6	8553.6
45°	12381.1	12457.6	12413.0	12151.7	11763.0	11718.4	11593.1	13644.9	15467.3	15150.9	9749.4
47.5°	13770.2	13821.2	13710.8	13402.8	13007.7	13077.8	13003.4	15121.1	17442.7	17170.8	10987.7
50°	14734.5	14819.5	14976.7	15099.9	14813.1	14554.0	14333.1	16499.6	19318.2	19074.0	12253.7
52.5°	14723.9	14864.1	15361.1	15981.4	16608.0	16529.4	15894.3	18022.6	21108.8	20807.2	13443.1
55°	13732.0	14003.9	14734.5	15834.8	17570.2	18434.6	18145.8	19785.5	22655.1	22451.2	14821.6
57.5°	11684.4	11850.1	12865.4	14403.2	17032.8	19331.0	20754.1	22175.1	24509.4	24413.8	16962.7
60°	7859.0	7933.3	9239.6	11140.6	14500.9	18436.8	22665.8	25065.9	26792.8	26746.1	19462.7
62.5°	4503.0	4534.8	5482.2	7085.8	10318.6	15624.5	22827.2	28632.2	29530.7	29556.2	22355.6
65°	2423.5	2440.5	3205.2	4158.9	6278.7	11136.4	20526.8	30586.3	31743.9	31792.8	24148.3
66°	2092.2	2011.5	2551.0	3545.0	4995.8	8863.7	19071.9	30516.2	32168.8	32115.7	24084.6
67.5°	1590.9	1663.1	2037.0	2725.2	3702.2	6302.1	15745.6	29159.0	31845.9	31680.2	23105.4
70°	1138.5	1168.2	1450.7	1943.5	2521.2	3458.0	10061.6	24218.4	28944.4	28721.4	20129.6
72.5°	734.9	766.8	1028.0	1406.1	1822.4	1888.3	5633.0	17497.9	22315.3	22283.4	15159.4
75°	524.6	554.4	679.7	1006.8	1370.0	1168.2	2712.4	11792.7	14186.5	14091.0	9377.7
77.5°	380.2	395.1	454.5	658.5	979.2	836.9	1257.4	6297.8	7062.5	7395.9	4144.0
80°	218.8	231.5	316.5	401.4	662.7	571.4	601.1	2527.6	2606.2	2480.9	1295.7
82.5°	108.3	123.2	189.0	274.0	414.2	384.5	276.1	760.4	802.9	781.7	327.1
85°	25.5	31.9	106.2	180.5	201.8	172.0	133.8	223.0	276.1	269.8	125.3
87.5°	2.1	4.2	38.2	31.9	34.0	57.3	46.7	57.3	89.2	82.8	44.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456935  
 CATALOG NUMBER: GALN-SA8B-727-U-T2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5	3141.5
2.5°	3169.1	3128.7	3011.9	2897.2	2801.6	2701.8	2610.5	2557.4	2536.1	2512.8	2523.4
5°	3213.7	3116.0	2880.2	2676.3	2476.6	2306.7	2170.8	2083.7	2041.2	2034.8	2024.2
7.5°	3273.2	3105.4	2740.0	2421.4	2160.2	1971.1	1816.1	1690.7	1652.5	1618.5	1590.9
10°	3345.4	3086.2	2565.9	2153.8	1875.5	1637.6	1433.7	1285.1	1208.6	1187.3	1202.2
12.5°	3421.8	3050.1	2383.2	1907.4	1586.7	1282.9	1093.9	1019.5	998.3	989.8	991.9
15°	3498.3	3005.5	2192.0	1669.5	1263.8	1023.8	936.7	917.6	909.1	904.8	900.6
17.5°	3568.4	2933.3	1977.5	1438.0	1023.8	875.1	843.2	826.3	809.3	802.9	792.3
20°	3651.2	2850.5	1784.2	1178.8	866.6	792.3	754.0	722.2	696.7	679.7	677.6
22.5°	3729.8	2744.3	1582.4	977.1	790.1	711.6	650.0	616.0	586.2	565.0	571.4
25°	3772.3	2614.7	1401.9	851.7	720.1	630.8	562.9	520.4	488.5	477.9	475.8
27.5°	3772.3	2455.4	1225.6	779.5	656.3	558.6	488.5	448.2	426.9	412.1	414.2
30°	3742.6	2279.1	1062.0	724.3	601.1	494.9	429.1	392.9	376.0	365.3	363.2
32.5°	3719.2	2111.3	921.8	671.2	543.8	439.7	382.3	354.7	337.7	327.1	327.1
35°	3755.3	1966.9	813.5	618.1	490.7	397.2	346.2	320.7	303.7	295.2	293.1
37.5°	3850.9	1835.2	730.7	560.7	441.8	361.1	320.7	291.0	274.0	263.4	259.1
40°	4086.7	1760.8	669.1	507.6	395.1	331.4	291.0	263.4	242.1	231.5	229.4
42.5°	4464.8	1763.0	609.6	458.8	359.0	305.9	265.5	233.6	210.3	199.7	197.5
45°	5034.0	1843.7	562.9	412.1	327.1	278.3	237.9	203.9	182.7	172.0	172.0
47.5°	5715.8	2000.9	522.5	371.7	297.4	252.8	210.3	176.3	155.1	146.6	146.6
50°	6455.0	2204.8	482.2	329.2	271.9	225.1	180.5	152.9	135.9	129.6	129.6
52.5°	7209.0	2451.2	441.8	295.2	244.3	195.4	155.1	135.9	121.1	116.8	114.7
55°	8198.8	2765.5	399.3	259.1	214.5	167.8	138.1	118.9	102.0	95.6	93.5
57.5°	9721.8	3239.2	352.6	227.3	176.3	140.2	118.9	99.8	80.7	70.1	68.0
60°	11559.1	3816.9	303.7	199.7	142.3	114.7	95.6	76.5	59.5	46.7	44.6
62.5°	13279.6	4184.4	257.0	167.8	112.6	87.1	68.0	57.3	42.5	29.7	27.6
65°	14040.0	4061.2	212.4	135.9	89.2	61.6	44.6	40.4	25.5	12.7	10.6
66°	13787.2	3878.5	195.4	123.2	80.7	53.1	38.2	34.0	19.1	6.4	6.4
67.5°	13041.7	3447.3	169.9	106.2	70.1	42.5	29.7	25.5	10.6	2.1	0.0
70°	11174.6	2788.9	133.8	78.6	51.0	29.7	17.0	12.7	6.4	0.0	0.0
72.5°	8583.3	2077.3	106.2	59.5	36.1	17.0	8.5	4.2	6.4	0.0	0.0
75°	5259.2	1187.3	82.8	44.6	23.4	10.6	6.4	0.0	6.4	2.1	0.0
77.5°	2334.3	533.1	55.2	29.7	17.0	8.5	4.2	0.0	4.2	2.1	0.0
80°	590.5	174.2	31.9	21.2	12.7	6.4	2.1	0.0	4.2	4.2	2.1
82.5°	161.4	63.7	23.4	17.0	10.6	6.4	2.1	0.0	4.2	4.2	4.2
85°	63.7	29.7	21.2	17.0	12.7	6.4	2.1	0.0	4.2	4.2	4.2
87.5°	29.7	21.2	21.2	19.1	14.9	6.4	2.1	0.0	4.2	2.1	4.2
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)