

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: P453444

Luminaire Tested: **GALN-SA4C-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19036 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

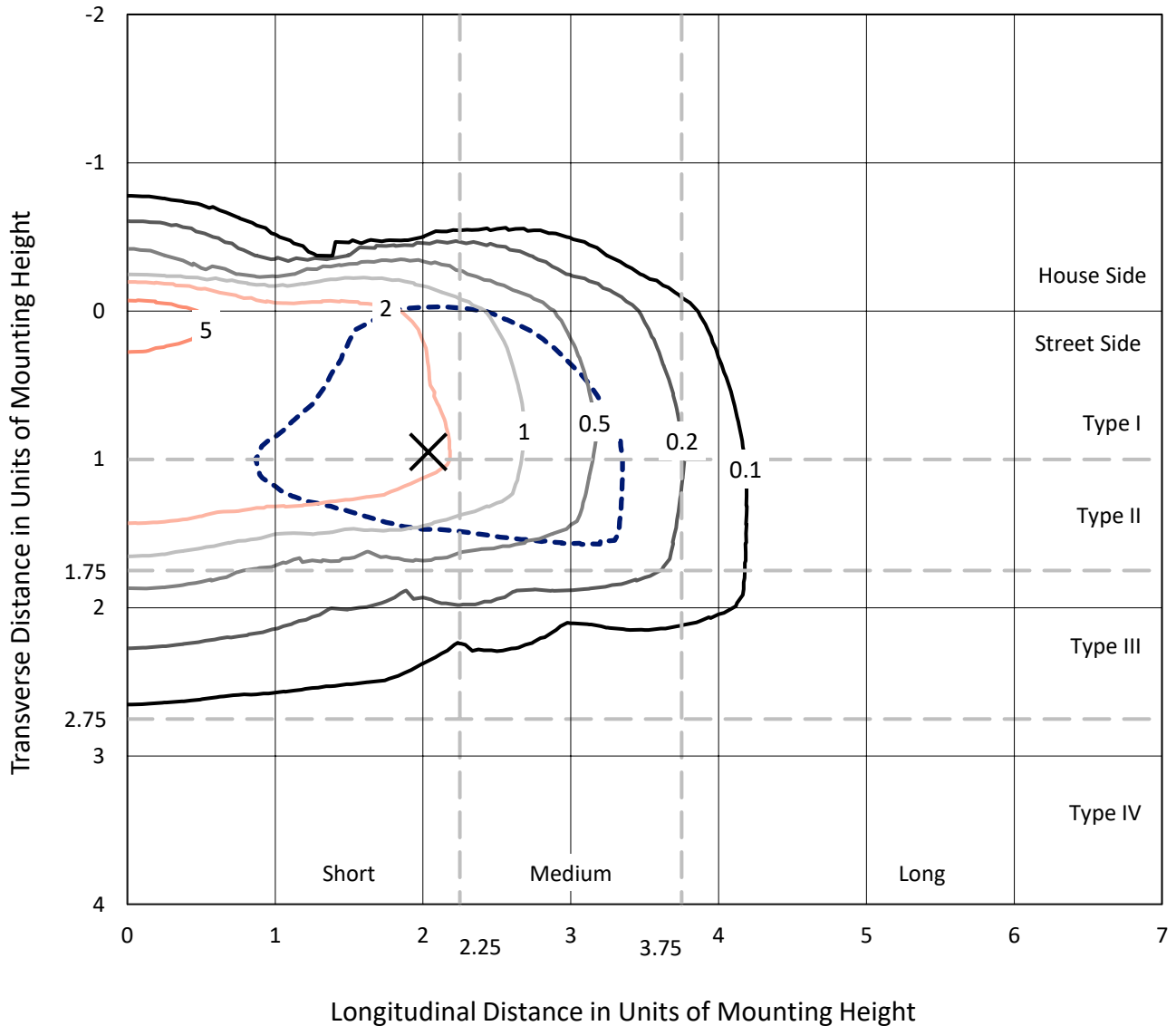
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

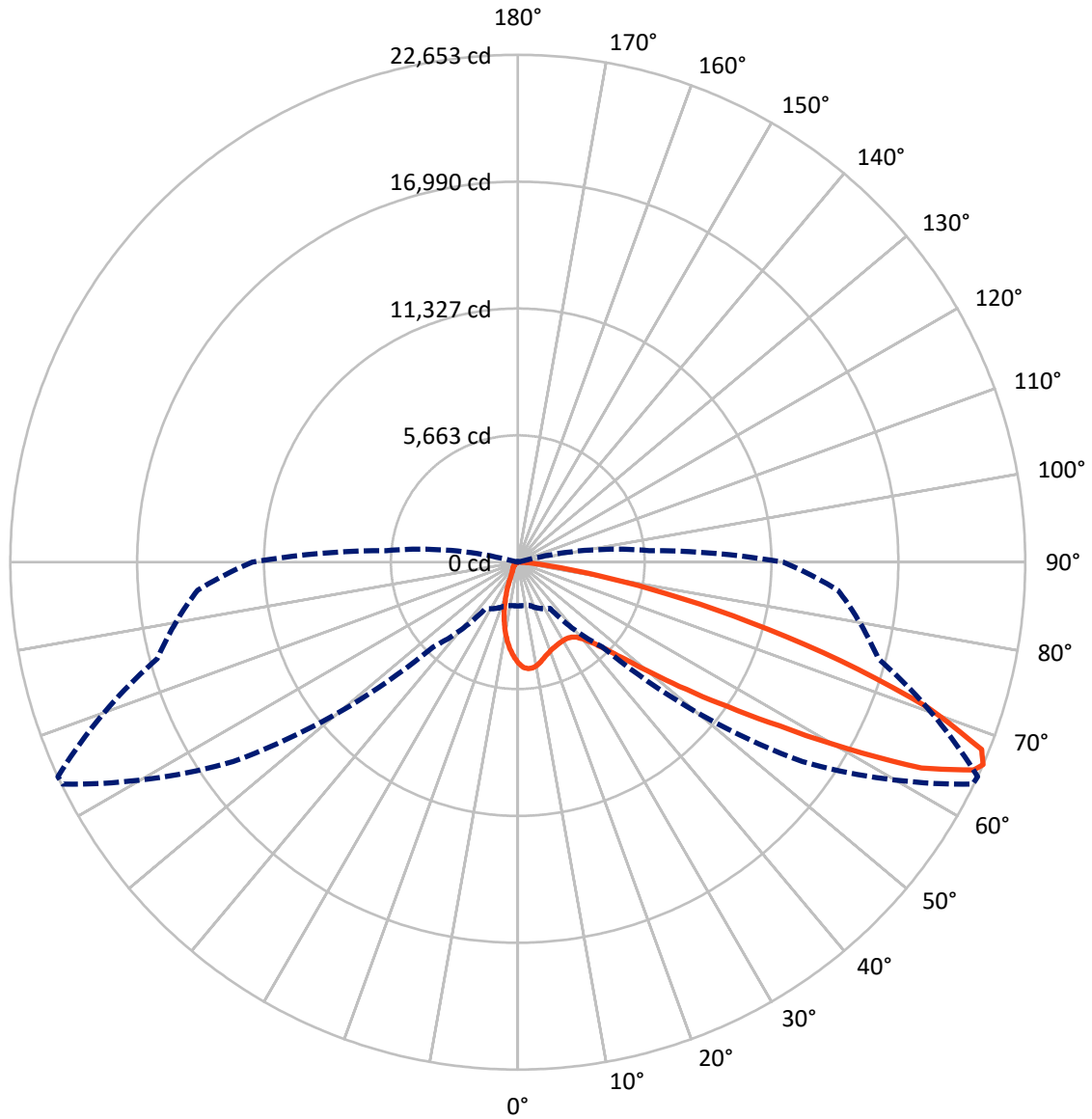
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1968.6	0.0	1968.6
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	17067.4	0.0	17067.4
	% Fixture	89.7	0.0	89.7
Total	Lumens	19036.0	0.0	19036.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.2	1.9
10°-20°	804.4	4.2
20°-30°	1152.3	6.1
30°-40°	1683.1	8.8
40°-50°	2822.2	14.8
50°-60°	4709.8	24.7
60°-70°	4999.3	26.3
70°-80°	2264.2	11.9
80°-90°	231.7	1.2
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°	19036.0	100.0
0°-180°	19036.0	100.0



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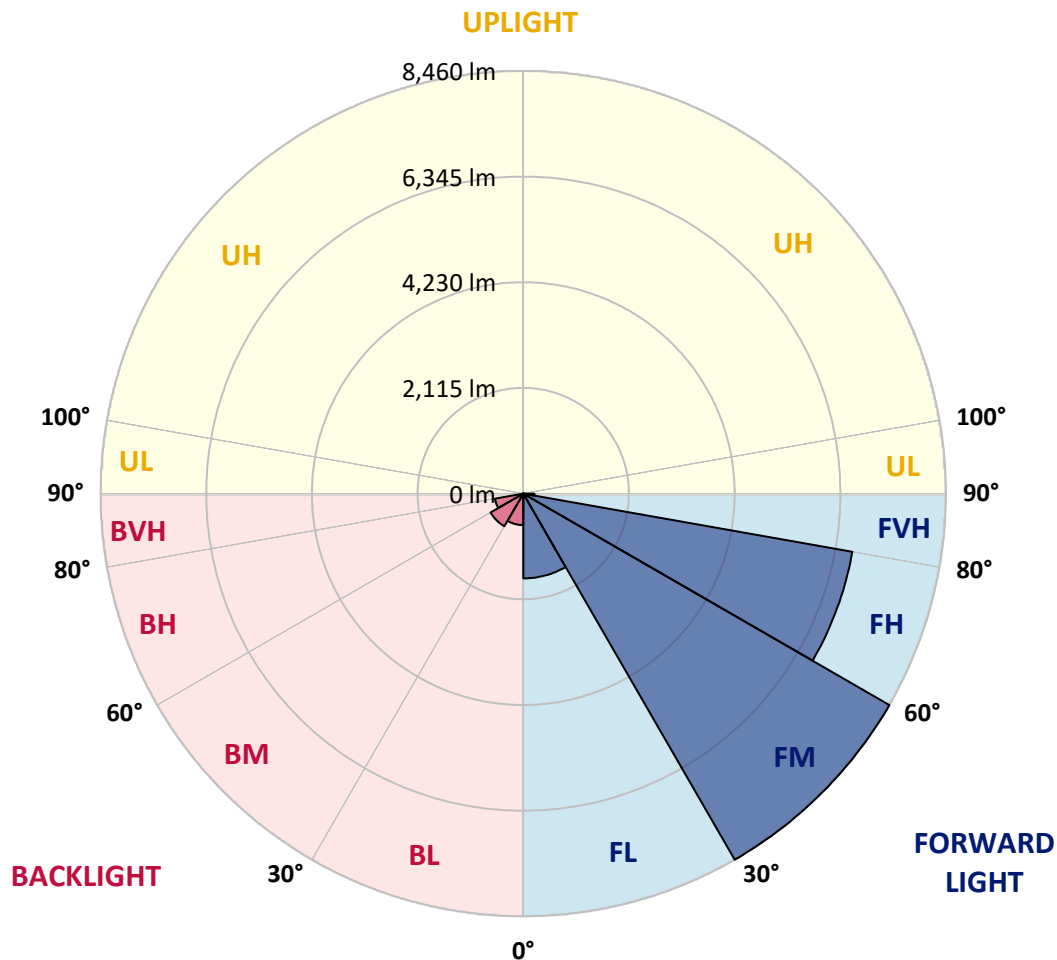
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1696.2	8.9			
FM (30°-60°)	8460.0	44.4			
FH (60°-80°)	6686.9	35.1			G3/7500
FVH (80°-90°)	224.3	1.2			G2/225
BL (0°-30°)	629.7	3.3	B2/1000		
BM (30°-60°)	755.0	4.0	B1/1000		
BH (60°-80°)	576.5	3.0	B2/1000		G2/1000
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: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1
2.5°	4757.1	4762.3	4768.7	4777.7	4784.1	4764.9	4737.9	4707.0	4700.6	4635.0	4555.3
5°	4502.6	4510.3	4566.9	4597.7	4667.1	4730.1	4770.0	4775.1	4772.6	4710.9	4583.6
7.5°	4140.0	4161.9	4217.1	4271.1	4401.0	4520.6	4662.0	4761.0	4767.4	4750.7	4592.6
10°	3845.6	3859.7	3888.0	3994.7	4102.7	4285.3	4483.3	4669.7	4685.1	4752.0	4584.9
12.5°	3615.4	3636.0	3670.7	3753.0	3882.9	4055.1	4280.1	4530.9	4563.0	4727.6	4563.0
15°	3454.7	3465.0	3499.7	3580.7	3706.7	3866.1	4093.7	4385.6	4413.9	4695.4	4559.1
17.5°	3378.9	3390.4	3414.9	3479.1	3583.3	3731.1	3953.6	4268.6	4304.6	4674.9	4573.3
20°	3399.4	3409.7	3411.0	3444.4	3515.1	3639.9	3850.7	4159.3	4205.6	4662.0	4596.4
22.5°	3516.4	3517.7	3502.3	3486.9	3511.3	3601.3	3787.7	4089.9	4137.4	4659.4	4623.4
25°	3691.3	3695.1	3669.4	3615.4	3566.6	3612.9	3773.6	4044.9	4087.3	4653.0	4640.1
27.5°	3933.0	3931.7	3924.0	3834.0	3695.1	3664.3	3785.1	4020.4	4056.4	4635.0	4646.6
30°	4271.1	4260.9	4244.1	4142.6	3930.4	3789.0	3834.0	4005.0	4038.4	4609.3	4629.9
32.5°	4604.1	4642.7	4640.1	4543.7	4278.9	4011.4	3935.6	4025.6	4050.0	4592.6	4605.4
35°	4992.4	4991.1	5090.1	5054.1	4744.3	4295.6	4109.1	4093.7	4113.0	4604.1	4593.9
37.5°	5352.4	5385.9	5540.1	5577.4	5294.6	4696.7	4354.7	4240.3	4246.7	4682.6	4622.1
40°	5801.1	5865.4	6095.6	6220.3	5970.9	5292.0	4717.3	4509.0	4510.3	4875.4	4728.9
42.5°	6379.7	6481.3	6696.0	6904.3	6770.6	5996.6	5261.1	4934.6	4932.0	5214.9	4973.1
45°	7083.0	7153.7	7398.0	7728.4	7643.6	6980.1	6053.1	5594.1	5560.7	5771.6	5406.4
47.5°	7689.8	7786.3	8034.4	8411.1	8796.8	8181.0	6999.4	6500.6	6478.7	6657.4	6149.6
50°	7954.7	8039.6	8300.6	8829.0	9763.7	9757.3	8408.6	7823.6	7786.3	7882.7	7299.0
52.5°	7664.1	7743.8	8007.4	8665.7	10218.8	11678.1	10450.3	9483.4	9438.4	9315.0	8672.1
55°	6669.0	6734.6	7124.1	7880.1	10044.0	12958.7	13263.4	11534.1	11359.3	10879.7	10226.6
57.5°	5310.0	5276.6	5518.3	6396.4	9018.0	13388.1	16151.1	14088.8	13776.4	12232.3	11541.8
60°	3679.7	3782.6	3880.3	4458.9	6780.8	12643.7	17947.3	17300.6	16889.1	13563.0	12801.8
62.5°	2705.1	2773.3	2837.6	3105.0	4263.4	10095.4	18264.8	20599.7	20234.5	14976.0	14004.0
65°	2139.4	2144.6	2170.3	2433.9	2809.3	6564.8	16738.7	22460.1	22366.3	16336.3	14491.3
66°	1949.1	1950.4	1990.3	2273.1	2521.3	5346.0	15516.0	22601.5	22653.0	16662.8	14348.6
67.5°	1703.6	1698.4	1756.3	2043.0	2296.3	3854.6	13327.7	22028.1	22332.8	16913.6	13835.6
70°	1320.4	1314.0	1384.7	1713.9	2115.0	2571.4	8858.6	18914.1	19405.3	16400.6	12241.3
72.5°	879.4	884.6	1005.4	1352.6	2018.6	2264.1	5329.3	14388.4	15082.7	13543.7	9630.0
75°	513.0	522.0	659.6	1005.4	1752.4	2158.7	3016.3	10260.0	10703.6	9352.3	5999.1
77.5°	268.7	272.6	369.0	663.4	1343.6	2004.4	2009.6	6554.6	6762.8	4545.0	2374.7
80°	142.7	138.9	198.0	399.9	924.4	1760.1	1630.3	3470.1	3607.7	1350.0	600.4
82.5°	54.0	59.1	105.4	262.3	546.4	1263.9	1404.0	1533.9	1486.3	297.0	252.0
85°	10.3	12.9	45.0	155.6	275.1	528.4	1035.0	752.1	696.9	111.9	145.3
87.5°	1.3	2.6	12.9	37.3	39.9	178.7	306.0	208.3	180.0	41.1	60.4
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°	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1	4514.1
2.5°	4516.7	4482.0	4366.3	4251.9	4134.9	4029.4	3957.4	3840.4	3810.9	3768.4	3744.0
5°	4507.7	4426.7	4204.3	3961.3	3735.0	3490.7	3304.3	3124.3	3027.9	2979.0	2961.0
7.5°	4482.0	4353.4	4006.3	3625.7	3263.1	2898.0	2580.4	2338.7	2183.1	2076.4	2004.4
10°	4430.6	4253.1	3776.1	3252.9	2705.1	2223.0	1820.6	1514.6	1278.0	1203.4	1206.0
12.5°	4377.9	4141.3	3519.0	2838.9	2160.0	1551.9	1125.0	883.3	770.1	732.9	725.1
15°	4329.0	4034.6	3267.0	2437.7	1608.4	1005.4	725.1	640.3	609.4	603.0	601.7
17.5°	4303.3	3935.6	2998.3	1978.7	1122.4	682.7	581.1	558.0	549.0	542.6	540.0
20°	4281.4	3849.4	2741.1	1549.3	767.6	559.3	520.7	498.9	483.4	477.0	473.1
22.5°	4266.0	3760.7	2475.0	1199.6	587.6	496.3	461.6	433.3	411.4	403.7	398.6
25°	4242.9	3663.0	2206.3	876.9	495.0	441.0	401.1	367.7	339.4	325.3	322.7
27.5°	4209.4	3552.4	1911.9	649.3	442.3	392.1	343.3	302.1	273.9	258.4	259.7
30°	4155.4	3436.7	1617.4	515.6	399.9	342.0	289.3	249.4	222.4	210.9	209.6
32.5°	4091.1	3296.6	1347.4	442.3	361.3	297.0	241.7	207.0	186.4	177.4	176.1
35°	4030.7	3155.1	1072.3	397.3	321.4	255.9	203.1	173.6	158.1	150.4	151.7
37.5°	3997.3	3029.1	835.7	361.3	289.3	219.9	174.9	149.1	135.0	128.6	127.3
40°	4019.1	2926.3	664.7	329.1	253.3	189.0	150.4	128.6	114.4	105.4	105.4
42.5°	4122.0	2881.3	536.1	298.3	219.9	163.3	131.1	110.6	95.1	86.1	87.4
45°	4435.7	2928.9	448.7	270.0	189.0	141.4	113.1	91.3	77.1	70.7	69.4
47.5°	4956.4	3107.6	388.3	240.4	162.0	120.9	95.1	75.9	61.7	56.6	55.3
50°	5866.7	3476.6	343.3	210.9	137.6	102.9	78.4	60.4	48.9	43.7	43.7
52.5°	7119.0	4281.4	311.1	177.4	115.7	87.4	64.3	48.9	38.6	34.7	33.4
55°	8427.8	5130.0	294.4	149.1	96.4	72.0	51.4	38.6	29.6	25.7	24.4
57.5°	9686.6	5796.0	275.1	120.9	77.1	55.3	39.9	29.6	20.6	18.0	16.7
60°	10893.8	6334.7	234.0	96.4	60.4	39.9	29.6	20.6	14.1	11.6	11.6
62.5°	11973.8	6648.4	183.9	77.1	46.3	28.3	19.3	15.4	10.3	7.7	7.7
65°	12099.8	6240.8	138.9	59.1	33.4	18.0	11.6	11.6	7.7	5.1	5.1
66°	11846.6	5895.0	122.1	54.0	29.6	15.4	10.3	9.0	6.4	3.9	3.9
67.5°	11280.8	5304.9	105.4	46.3	24.4	11.6	7.7	7.7	5.1	2.6	2.6
70°	9747.0	4332.9	83.6	34.7	18.0	9.0	5.1	5.1	3.9	2.6	2.6
72.5°	7428.8	3234.9	68.1	25.7	12.9	6.4	3.9	3.9	3.9	2.6	2.6
75°	4480.7	1742.1	52.7	19.3	11.6	5.1	2.6	3.9	5.1	3.9	2.6
77.5°	1650.9	592.7	41.1	15.4	9.0	5.1	2.6	2.6	5.1	3.9	3.9
80°	405.0	154.3	29.6	12.9	9.0	5.1	2.6	2.6	5.1	5.1	5.1
82.5°	187.7	65.6	20.6	11.6	9.0	5.1	2.6	2.6	3.9	5.1	5.1
85°	108.0	30.9	16.7	12.9	9.0	5.1	2.6	2.6	3.9	5.1	5.1
87.5°	43.7	15.4	15.4	12.9	10.3	6.4	2.6	2.6	2.6	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

(END OF REPORT)