

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: P454140

Luminaire Tested: **GALN-SA5B-727-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P454140  
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-SA5B-727-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 2700K, 800mA 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: 19504 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

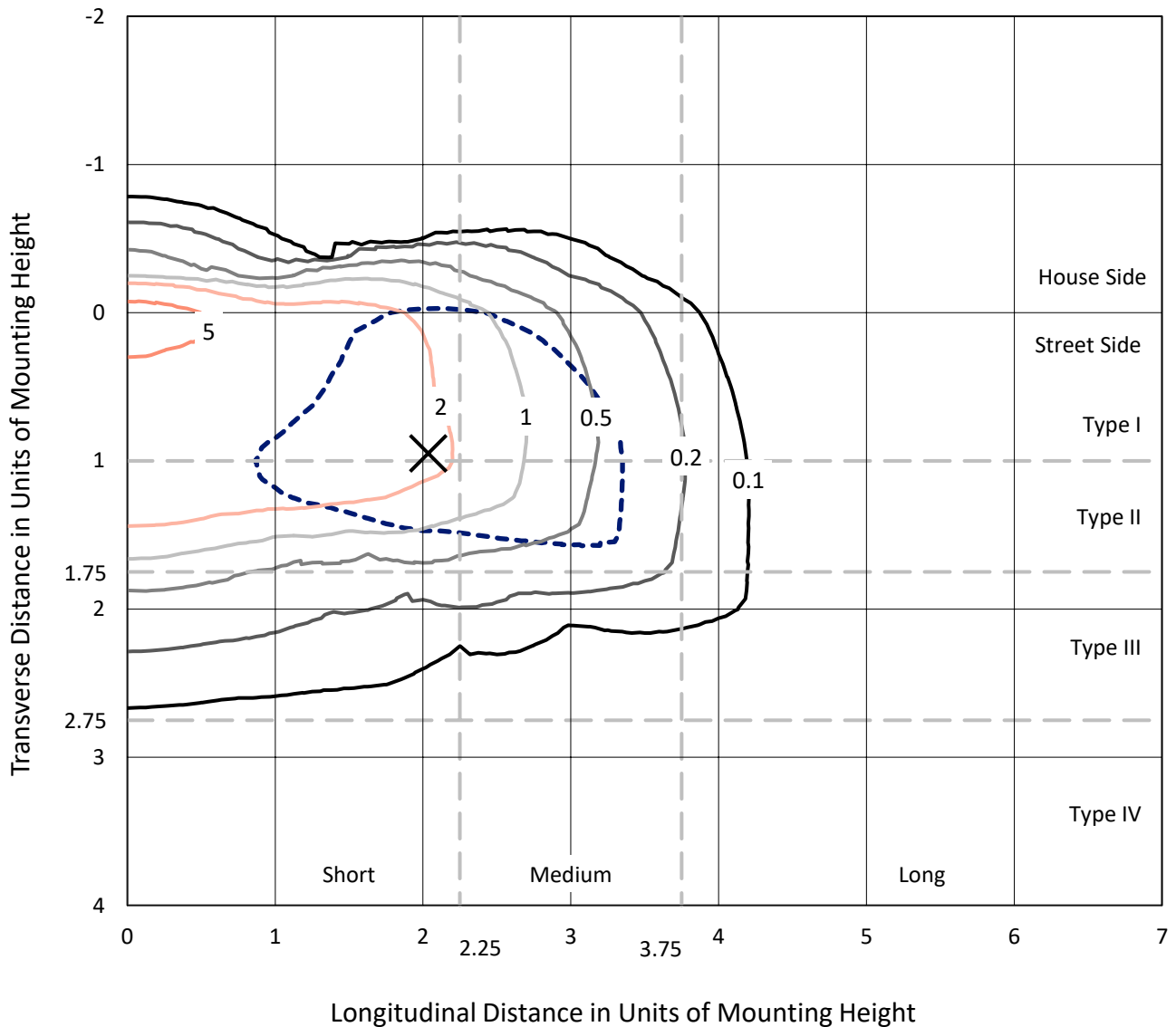
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

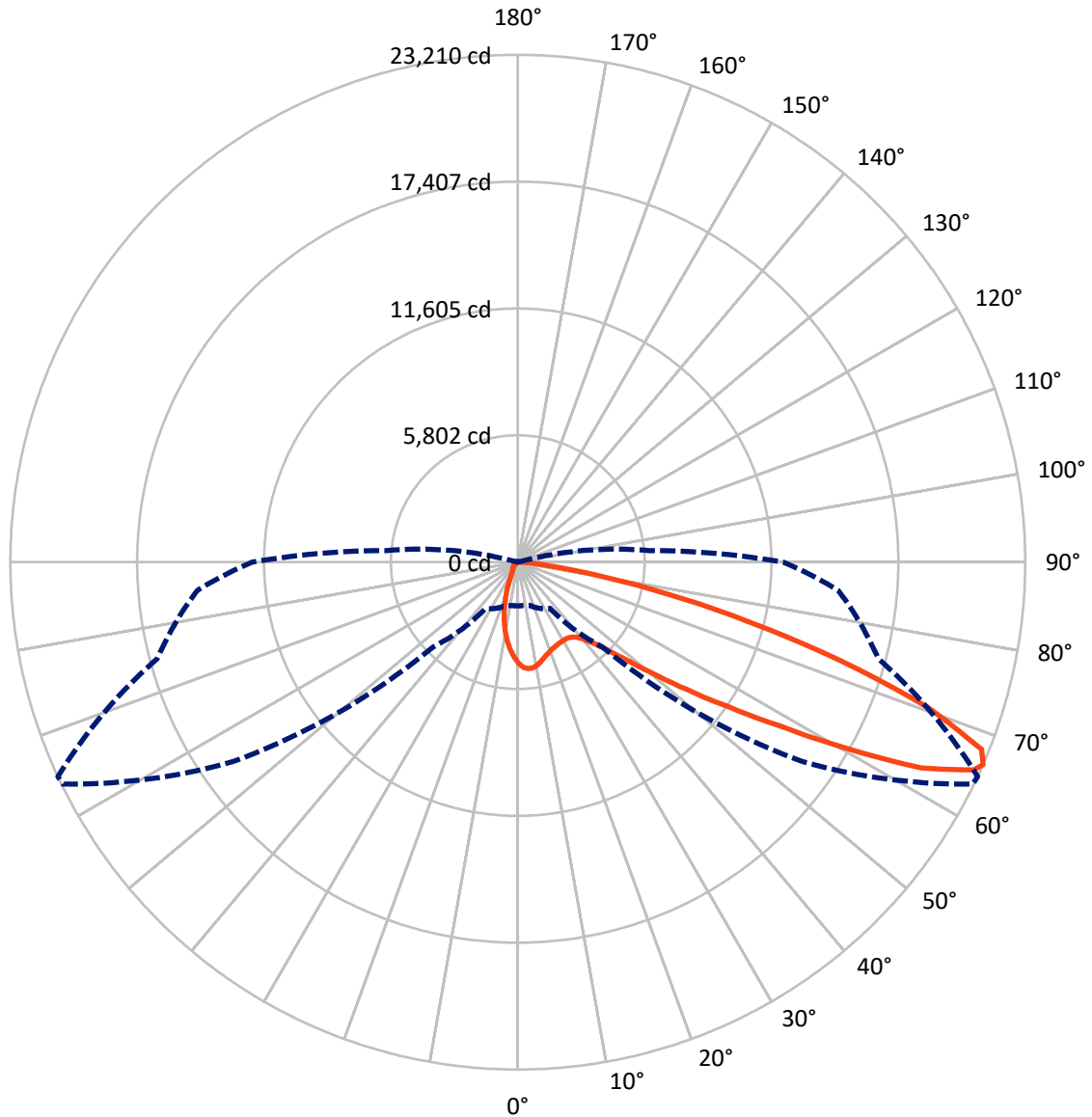
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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
<b>House Side</b>	Lumens	2017.0	0.0	2017.0
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	17487.0	0.0	17487.0
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	19504.0	0.0	19504.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	378.3	1.9
10°-20°	824.2	4.2
20°-30°	1180.6	6.1
30°-40°	1724.4	8.8
40°-50°	2891.6	14.8
50°-60°	4825.6	24.7
60°-70°	5122.2	26.3
70°-80°	2319.8	11.9
80°-90°	237.4	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°	19504.0	100.0
0°-180°	19504.0	100.0

**Coefficient of Utilization**

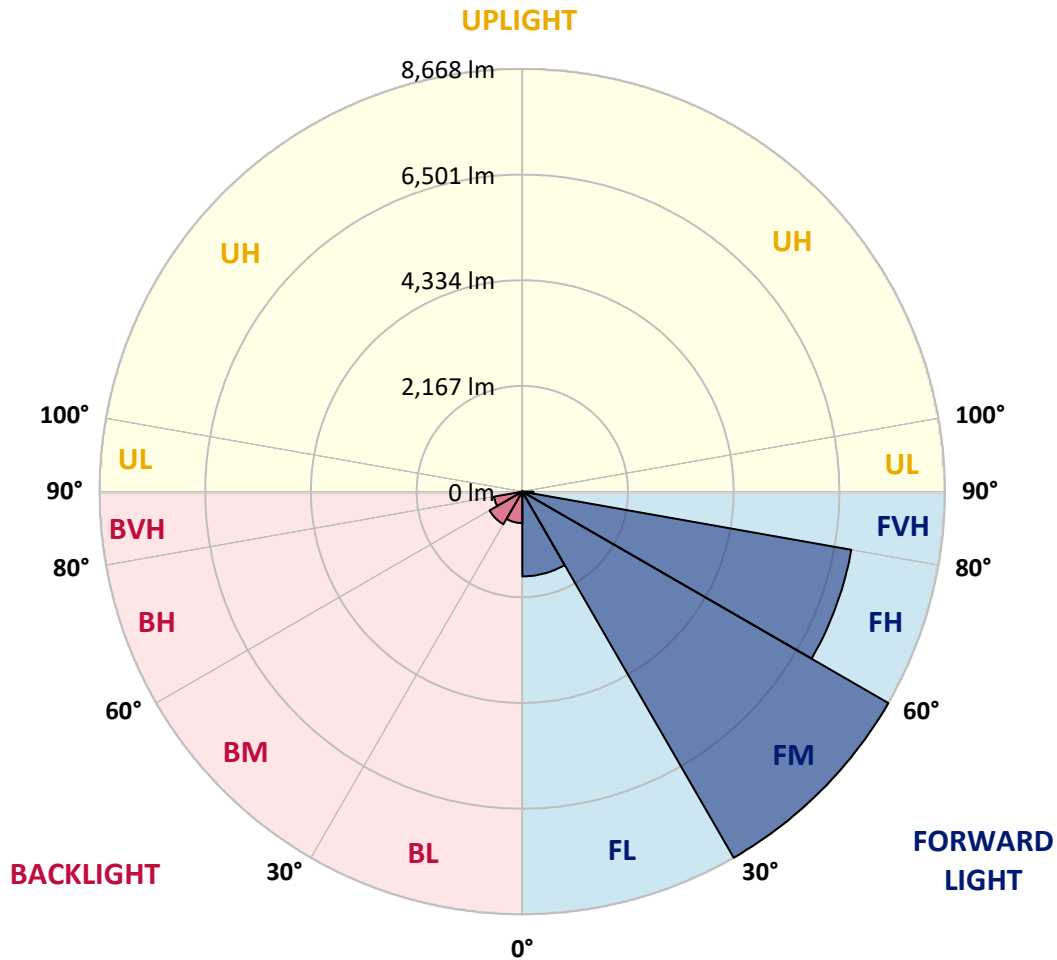


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1737.9	8.9			
FM (30°-60°)	8668.0	44.4			
FH (60°-80°)	6851.3	35.1			G3/7500
FVH (80°-90°)	229.8	1.2			G3/500
BL (0°-30°)	645.2	3.3	B2/1000		
BM (30°-60°)	773.5	4.0	B1/1000		
BH (60°-80°)	590.7	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.6	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°	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1
2.5°	4874.1	4879.4	4885.9	4895.2	4901.8	4882.0	4854.3	4822.7	4816.1	4748.9	4667.3
5°	4613.3	4621.2	4679.1	4710.7	4781.9	4846.4	4887.3	4892.5	4889.9	4826.7	4696.3
7.5°	4241.8	4264.2	4320.8	4376.1	4509.2	4631.7	4776.6	4878.0	4884.6	4867.5	4705.5
10°	3940.1	3954.6	3983.6	4092.9	4203.6	4390.6	4593.5	4784.5	4800.3	4868.8	4697.6
12.5°	3704.3	3725.4	3761.0	3845.3	3978.3	4154.8	4385.4	4642.2	4675.2	4843.8	4675.2
15°	3539.6	3550.2	3585.8	3668.7	3797.8	3961.2	4194.4	4493.4	4522.4	4810.9	4671.2
17.5°	3461.9	3473.8	3498.8	3564.7	3671.4	3822.9	4050.8	4373.5	4410.4	4789.8	4685.7
20°	3483.0	3493.5	3494.9	3529.1	3601.6	3729.3	3945.4	4261.5	4309.0	4776.6	4709.4
22.5°	3602.9	3604.2	3588.4	3572.6	3597.6	3689.8	3880.8	4190.4	4239.1	4774.0	4737.1
25°	3782.0	3786.0	3759.6	3704.3	3654.3	3701.7	3866.3	4144.3	4187.8	4767.4	4754.2
27.5°	4029.7	4028.4	4020.5	3928.3	3786.0	3754.4	3878.2	4119.3	4156.2	4748.9	4760.8
30°	4376.1	4365.6	4348.5	4244.4	4027.1	3882.1	3928.3	4103.5	4137.7	4722.6	4743.7
32.5°	4717.3	4756.8	4754.2	4655.4	4384.0	4110.0	4032.3	4124.5	4149.6	4705.5	4718.6
35°	5115.2	5113.8	5215.3	5178.4	4860.9	4401.2	4210.2	4194.4	4214.1	4717.3	4706.8
37.5°	5484.0	5518.3	5676.3	5714.5	5424.7	4812.2	4461.8	4344.5	4351.1	4797.7	4735.8
40°	5943.8	6009.6	6245.4	6373.2	6117.6	5422.1	4833.3	4619.8	4621.2	4995.3	4845.1
42.5°	6536.6	6640.6	6860.6	7074.0	6937.0	6144.0	5390.5	5055.9	5053.2	5343.1	5095.4
45°	7257.1	7329.6	7579.9	7918.4	7831.5	7151.7	6202.0	5731.7	5697.4	5913.5	5539.3
47.5°	7878.9	7977.7	8231.9	8617.9	9013.1	8382.1	7171.5	6660.4	6638.0	6821.1	6300.8
50°	8150.3	8237.2	8504.6	9046.1	10003.7	9997.2	8615.3	8015.9	7977.7	8076.5	7478.4
52.5°	7852.6	7934.2	8204.3	8878.8	10470.1	11965.2	10707.2	9716.6	9670.5	9544.0	8885.3
55°	6832.9	6900.1	7299.3	8073.9	10290.9	13277.3	13589.5	11817.7	11638.5	11147.2	10478.0
57.5°	5440.5	5406.3	5653.9	6553.7	9239.7	13717.3	16548.2	14435.2	14115.1	12533.0	11825.6
60°	3770.2	3875.6	3975.7	4568.5	6947.6	12954.5	18388.5	17725.9	17304.3	13896.4	13116.6
62.5°	2771.6	2841.5	2907.3	3181.3	4368.2	10343.6	18713.9	21106.1	20732.0	15344.2	14348.3
65°	2192.0	2197.3	2223.6	2493.7	2878.3	6726.2	17150.2	23012.3	22916.1	16737.9	14847.5
66°	1997.1	1998.4	2039.2	2329.0	2583.3	5477.4	15897.4	23157.2	23209.9	17072.5	14701.3
67.5°	1745.5	1740.2	1799.5	2093.2	2352.7	3949.3	13655.4	22569.7	22881.9	17329.4	14175.7
70°	1352.9	1346.3	1418.8	1756.0	2167.0	2634.6	9076.3	19379.1	19882.3	16803.8	12542.2
72.5°	901.0	906.3	1030.1	1385.8	2068.2	2319.8	5460.3	14742.2	15453.5	13876.7	9866.7
75°	525.6	534.8	675.8	1030.1	1795.5	2211.8	3090.4	10512.2	10966.7	9582.2	6146.6
77.5°	275.3	279.3	378.1	679.7	1376.6	2053.7	2059.0	6715.7	6929.1	4656.7	2433.1
80°	146.2	142.3	202.9	409.7	947.2	1803.4	1670.4	3555.5	3696.4	1383.2	615.2
82.5°	55.3	60.6	108.0	268.7	559.9	1294.9	1438.5	1571.6	1522.8	304.3	258.2
85°	10.5	13.2	46.1	159.4	281.9	541.4	1060.4	770.6	714.0	114.6	148.9
87.5°	1.3	2.6	13.2	38.2	40.8	183.1	313.5	213.4	184.4	42.2	61.9
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°	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1	4625.1
2.5°	4627.8	4592.2	4473.6	4356.4	4236.5	4128.5	4054.7	3934.8	3904.5	3861.1	3836.0
5°	4618.5	4535.5	4307.6	4058.7	3826.8	3576.5	3385.5	3201.1	3102.3	3052.2	3033.8
7.5°	4592.2	4460.5	4104.8	3714.8	3343.4	2969.2	2643.9	2396.2	2236.8	2127.5	2053.7
10°	4539.5	4357.7	3869.0	3332.8	2771.6	2277.6	1865.3	1551.8	1309.4	1233.0	1235.6
12.5°	4485.5	4243.1	3605.5	2908.6	2213.1	1590.0	1152.7	905.0	789.1	750.9	743.0
15°	4435.4	4133.8	3347.3	2497.6	1648.0	1030.1	743.0	656.0	624.4	617.8	616.5
17.5°	4409.1	4032.3	3072.0	2027.4	1150.0	699.5	595.4	571.7	562.5	555.9	553.3
20°	4386.7	3944.1	2808.5	1587.4	786.4	573.0	533.5	511.1	495.3	488.7	484.8
22.5°	4370.9	3853.2	2535.8	1229.1	602.0	508.5	472.9	443.9	421.5	413.6	408.4
25°	4347.2	3753.1	2260.5	898.4	507.2	451.8	411.0	376.8	347.8	333.3	330.6
27.5°	4312.9	3639.8	1958.9	665.2	453.2	401.8	351.7	309.6	280.6	264.8	266.1
30°	4257.6	3521.2	1657.2	528.2	409.7	350.4	296.4	255.6	227.9	216.0	214.7
32.5°	4191.7	3377.6	1380.6	453.2	370.2	304.3	247.7	212.1	191.0	181.8	180.5
35°	4129.8	3232.7	1098.6	407.1	329.3	262.1	208.1	177.8	162.0	154.1	155.4
37.5°	4095.6	3103.6	856.3	370.2	296.4	225.3	179.2	152.8	138.3	131.7	130.4
40°	4117.9	2998.2	681.1	337.2	259.5	193.6	154.1	131.7	117.2	108.0	108.0
42.5°	4223.3	2952.1	549.3	305.6	225.3	167.3	134.4	113.3	97.5	88.3	89.6
45°	4544.8	3000.9	459.7	276.6	193.6	144.9	115.9	93.5	79.0	72.5	71.1
47.5°	5078.3	3184.0	397.8	246.3	166.0	123.8	97.5	77.7	63.2	58.0	56.6
50°	6010.9	3562.0	351.7	216.0	141.0	105.4	80.4	61.9	50.1	44.8	44.8
52.5°	7294.0	4386.7	318.8	181.8	118.6	89.6	65.9	50.1	39.5	35.6	34.3
55°	8635.0	5256.1	301.7	152.8	98.8	73.8	52.7	39.5	30.3	26.3	25.0
57.5°	9924.7	5938.5	281.9	123.8	79.0	56.6	40.8	30.3	21.1	18.4	17.1
60°	11161.7	6490.4	239.8	98.8	61.9	40.8	30.3	21.1	14.5	11.9	11.9
62.5°	12268.2	6811.9	188.4	79.0	47.4	29.0	19.8	15.8	10.5	7.9	7.9
65°	12397.3	6394.3	142.3	60.6	34.3	18.4	11.9	11.9	7.9	5.3	5.3
66°	12137.8	6039.9	125.1	55.3	30.3	15.8	10.5	9.2	6.6	4.0	4.0
67.5°	11558.2	5435.3	108.0	47.4	25.0	11.9	7.9	7.9	5.3	2.6	2.6
70°	9986.6	4439.4	85.6	35.6	18.4	9.2	5.3	5.3	4.0	2.6	2.6
72.5°	7611.5	3314.4	69.8	26.3	13.2	6.6	4.0	4.0	4.0	2.6	2.6
75°	4590.9	1785.0	54.0	19.8	11.9	5.3	2.6	4.0	5.3	4.0	2.6
77.5°	1691.4	607.3	42.2	15.8	9.2	5.3	2.6	2.6	5.3	4.0	4.0
80°	415.0	158.1	30.3	13.2	9.2	5.3	2.6	2.6	5.3	5.3	5.3
82.5°	192.3	67.2	21.1	11.9	9.2	5.3	2.6	2.6	4.0	5.3	5.3
85°	110.7	31.6	17.1	13.2	9.2	5.3	2.6	2.6	4.0	5.3	5.3
87.5°	44.8	15.8	15.8	13.2	10.5	6.6	2.6	2.6	2.6	4.0	4.0
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)