

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: P454836

Luminaire Tested: **GALN-SA6A-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454836
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-SA6A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 18561 lumens
Efficiency: N/A
Efficacy: 102.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

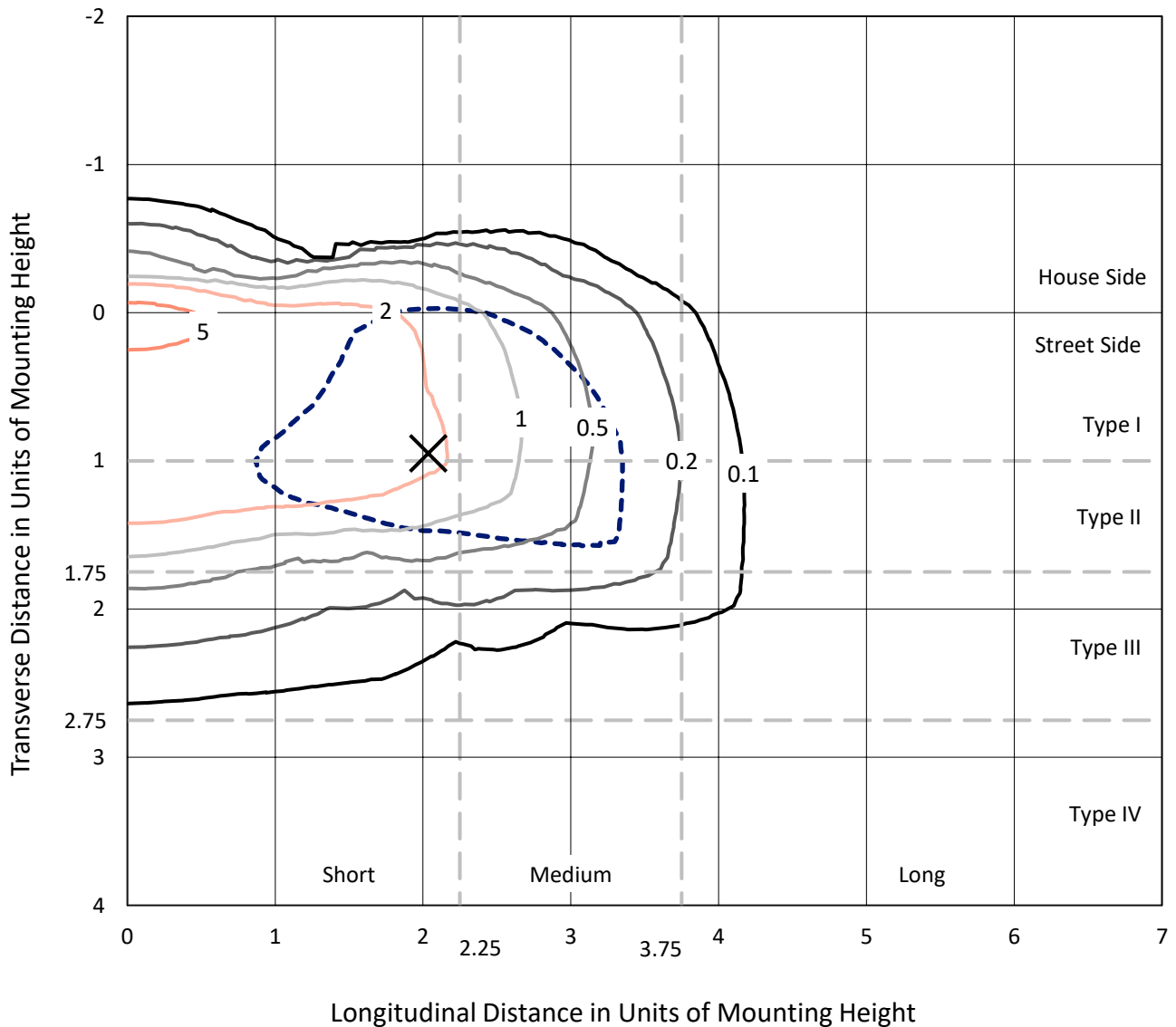
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

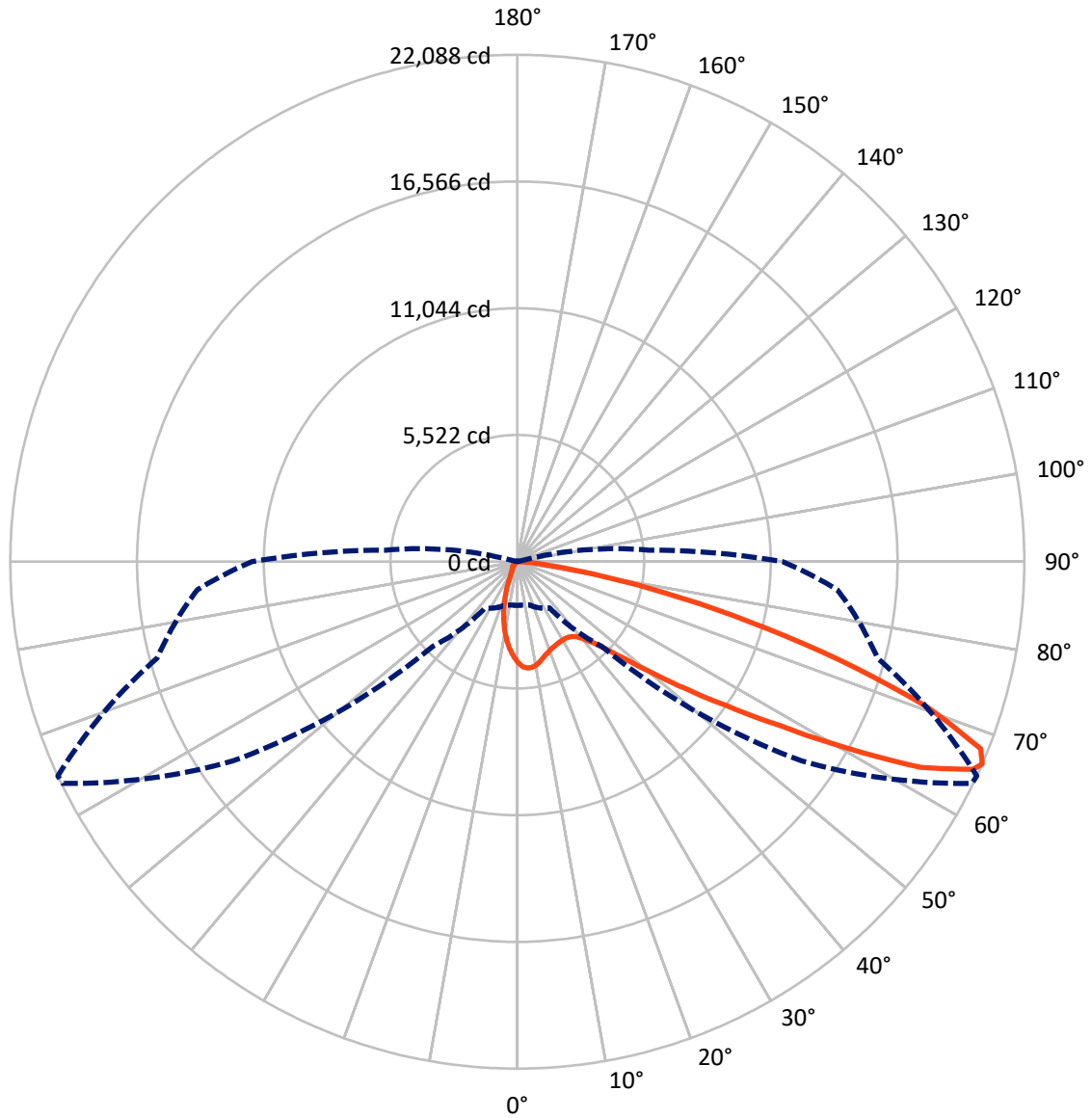
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	1919.5	0.0	1919.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	16641.5	0.0	16641.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	18561.0	0.0	18561.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	360.0	1.9
10°-20°	784.3	4.2
20°-30°	1123.6	6.1
30°-40°	1641.1	8.8
40°-50°	2751.8	14.8
50°-60°	4592.2	24.7
60°-70°	4874.5	26.3
70°-80°	2207.7	11.9
80°-90°	225.9	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°	18561.0	100.0
0°-180°	18561.0	100.0

Coefficient of Utilization



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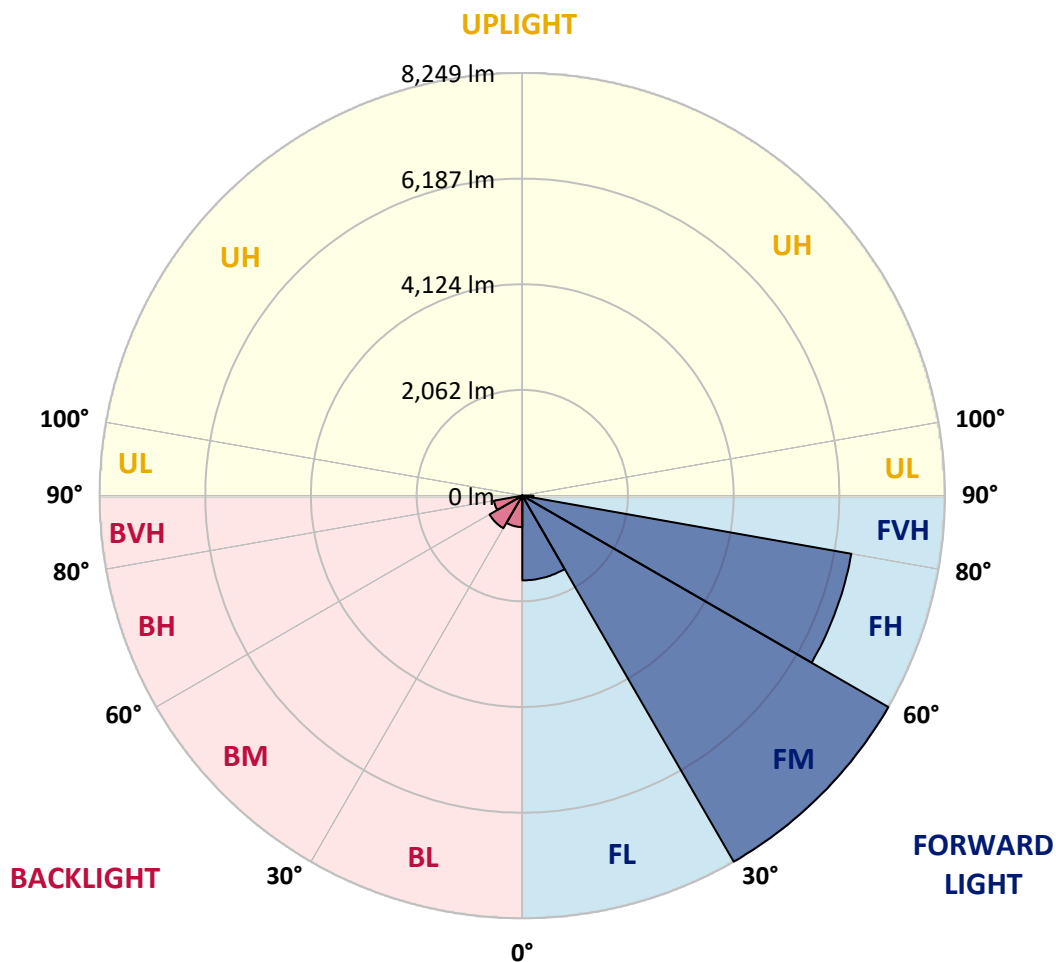
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1653.9	8.9			
FM (30°-60°)	8248.9	44.4			
FH (60°-80°)	6520.1	35.1			G3/7500
FVH (80°-90°)	218.7	1.2			G2/225
BL (0°-30°)	614.0	3.3	B2/1000		
BM (30°-60°)	736.1	4.0	B1/1000		
BH (60°-80°)	562.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	7.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4638.4	4643.4	4649.7	4658.5	4664.8	4646.0	4619.6	4589.5	4583.3	4519.3	4441.6
5°	4390.2	4397.7	4452.9	4483.0	4550.7	4612.1	4651.0	4656.0	4653.5	4593.3	4469.2
7.5°	4036.7	4058.0	4111.9	4164.6	4291.2	4407.8	4545.7	4642.2	4648.5	4632.2	4478.0
10°	3749.6	3763.4	3791.0	3895.0	4000.3	4178.4	4371.4	4553.2	4568.2	4633.4	4470.4
12.5°	3525.2	3545.3	3579.1	3659.3	3786.0	3954.0	4173.3	4417.8	4449.1	4609.6	4449.1
15°	3368.5	3378.5	3412.4	3491.4	3614.2	3769.7	3991.6	4276.1	4303.7	4578.3	4445.4
17.5°	3294.5	3305.8	3329.6	3392.3	3493.9	3638.0	3854.9	4162.1	4197.2	4558.2	4459.2
20°	3314.6	3324.6	3325.9	3358.5	3427.4	3549.0	3754.6	4055.5	4100.6	4545.7	4481.7
22.5°	3428.7	3429.9	3414.9	3399.8	3423.7	3511.4	3693.2	3987.8	4034.2	4543.2	4508.1
25°	3599.2	3602.9	3577.9	3525.2	3477.6	3522.7	3679.4	3943.9	3985.3	4536.9	4524.4
27.5°	3834.9	3833.6	3826.1	3738.3	3602.9	3572.8	3690.7	3920.1	3955.2	4519.3	4530.6
30°	4164.6	4154.5	4138.2	4039.2	3832.3	3694.4	3738.3	3905.1	3937.7	4494.3	4514.3
32.5°	4489.3	4526.9	4524.4	4430.3	4172.1	3911.3	3837.4	3925.1	3948.9	4478.0	4490.5
35°	4867.8	4866.6	4963.1	4928.0	4625.9	4188.4	4006.6	3991.6	4010.4	4489.3	4479.2
37.5°	5218.9	5251.5	5401.9	5438.3	5162.5	4579.5	4246.0	4134.5	4140.7	4565.7	4506.8
40°	5656.4	5719.1	5943.5	6065.1	5821.9	5159.9	4599.6	4396.5	4397.7	4753.8	4610.9
42.5°	6220.5	6319.6	6528.9	6732.0	6601.6	5846.9	5129.9	4811.4	4808.9	5084.7	4849.0
45°	6906.3	6975.2	7213.4	7535.6	7452.8	6806.0	5902.1	5454.5	5422.0	5627.5	5271.5
47.5°	7498.0	7592.0	7833.9	8201.3	8577.3	7976.9	6824.8	6338.4	6317.0	6491.3	5996.1
50°	7756.2	7839.0	8093.4	8608.7	9520.1	9513.8	8198.7	7628.3	7592.0	7686.0	7116.9
52.5°	7472.9	7550.6	7807.6	8449.5	9963.9	11386.7	10189.5	9246.8	9202.9	9082.6	8455.7
55°	6502.6	6566.5	6946.4	7683.5	9793.4	12635.3	12932.5	11246.3	11075.8	10608.2	9971.4
57.5°	5177.5	5144.9	5380.6	6236.8	8793.0	13054.1	15748.1	13737.3	13432.7	11927.0	11253.8
60°	3587.9	3688.2	3783.5	4347.6	6611.6	12328.2	17499.4	16868.9	16467.7	13224.6	12482.4
62.5°	2637.6	2704.1	2766.8	3027.5	4157.0	9843.5	17809.1	20085.7	19729.6	14602.3	13654.5
65°	2086.0	2091.1	2116.1	2373.1	2739.2	6401.0	16321.0	21899.7	21808.2	15928.6	14129.7
66°	1900.5	1901.8	1940.6	2216.4	2458.4	5212.6	15128.8	22037.6	22087.7	16247.1	13990.5
67.5°	1661.1	1656.0	1712.5	1992.0	2239.0	3758.4	12995.1	21478.5	21775.6	16491.5	13490.3
70°	1287.5	1281.2	1350.2	1671.1	2062.2	2507.3	8637.5	18442.2	18921.0	15991.3	11935.8
72.5°	857.5	862.5	980.3	1318.8	1968.2	2207.6	5196.3	14029.4	14706.3	13205.7	9389.7
75°	500.2	509.0	643.1	980.3	1708.7	2104.8	2941.0	10004.0	10436.5	9118.9	5849.4
77.5°	262.0	265.8	359.8	646.9	1310.0	1954.4	1959.4	6391.0	6594.1	4431.6	2315.5
80°	139.2	135.4	193.1	389.9	901.4	1716.2	1589.6	3383.5	3517.7	1316.3	585.4
82.5°	52.7	57.7	102.8	255.7	532.8	1232.3	1369.0	1495.6	1449.2	289.6	245.7
85°	10.0	12.5	43.9	151.7	268.3	515.2	1009.2	733.4	679.5	109.1	141.7
87.5°	1.3	2.5	12.5	36.4	38.9	174.3	298.4	203.1	175.5	40.1	58.9
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°	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5	4401.5
2.5°	4404.0	4370.2	4257.3	4145.8	4031.7	3928.9	3858.7	3744.6	3715.8	3674.4	3650.6
5°	4395.2	4316.3	4099.4	3862.4	3641.8	3403.6	3221.8	3046.3	2952.3	2904.7	2887.1
7.5°	4370.2	4244.8	3906.3	3535.2	3181.7	2825.7	2516.0	2280.4	2128.7	2024.6	1954.4
10°	4320.0	4147.0	3681.9	3171.7	2637.6	2167.5	1775.1	1476.8	1246.1	1173.4	1175.9
12.5°	4268.6	4037.9	3431.2	2768.0	2106.1	1513.1	1096.9	861.2	750.9	714.6	707.0
15°	4221.0	3933.9	3185.5	2376.9	1568.3	980.3	707.0	624.3	594.2	588.0	586.7
17.5°	4195.9	3837.4	2923.5	1929.3	1094.4	665.7	566.6	544.1	535.3	529.0	526.5
20°	4174.6	3753.4	2672.7	1510.6	748.4	545.3	507.7	486.4	471.4	465.1	461.3
22.5°	4159.5	3666.9	2413.2	1169.6	572.9	483.9	450.1	422.5	401.2	393.6	388.6
25°	4137.0	3571.6	2151.2	855.0	482.6	430.0	391.1	358.5	331.0	317.2	314.7
27.5°	4104.4	3463.8	1864.1	633.1	431.2	382.4	334.7	294.6	267.0	252.0	253.2
30°	4051.7	3351.0	1577.1	502.7	389.9	333.5	282.1	243.2	216.9	205.6	204.3
32.5°	3989.1	3214.3	1313.8	431.2	352.3	289.6	235.7	201.8	181.8	173.0	171.7
35°	3930.1	3076.4	1045.5	387.4	313.4	249.5	198.1	169.2	154.2	146.7	147.9
37.5°	3897.5	2953.6	814.9	352.3	282.1	214.4	170.5	145.4	131.6	125.4	124.1
40°	3918.8	2853.3	648.1	320.9	247.0	184.3	146.7	125.4	111.6	102.8	102.8
42.5°	4019.1	2809.4	522.8	290.8	214.4	159.2	127.9	107.8	92.8	84.0	85.2
45°	4325.0	2855.8	437.5	263.3	184.3	137.9	110.3	89.0	75.2	68.9	67.7
47.5°	4832.7	3030.0	378.6	234.4	158.0	117.8	92.8	74.0	60.2	55.2	53.9
50°	5720.3	3389.8	334.7	205.6	134.1	100.3	76.5	58.9	47.6	42.6	42.6
52.5°	6941.4	4174.6	303.4	173.0	112.8	85.2	62.7	47.6	37.6	33.8	32.6
55°	8217.5	5002.0	287.1	145.4	94.0	70.2	50.1	37.6	28.8	25.1	23.8
57.5°	9444.9	5651.4	268.3	117.8	75.2	53.9	38.9	28.8	20.1	17.6	16.3
60°	10622.0	6176.6	228.2	94.0	58.9	38.9	28.8	20.1	13.8	11.3	11.3
62.5°	11675.1	6482.5	179.3	75.2	45.1	27.6	18.8	15.0	10.0	7.5	7.5
65°	11797.9	6085.1	135.4	57.7	32.6	17.6	11.3	11.3	7.5	5.0	5.0
66°	11551.0	5747.9	119.1	52.7	28.8	15.0	10.0	8.8	6.3	3.8	3.8
67.5°	10999.4	5172.5	102.8	45.1	23.8	11.3	7.5	7.5	5.0	2.5	2.5
70°	9503.8	4224.7	81.5	33.8	17.6	8.8	5.0	5.0	3.8	2.5	2.5
72.5°	7243.5	3154.1	66.4	25.1	12.5	6.3	3.8	3.8	3.8	2.5	2.5
75°	4368.9	1698.7	51.4	18.8	11.3	5.0	2.5	3.8	5.0	3.8	2.5
77.5°	1609.7	577.9	40.1	15.0	8.8	5.0	2.5	2.5	5.0	3.8	3.8
80°	394.9	150.4	28.8	12.5	8.8	5.0	2.5	2.5	5.0	5.0	5.0
82.5°	183.0	63.9	20.1	11.3	8.8	5.0	2.5	2.5	3.8	5.0	5.0
85°	105.3	30.1	16.3	12.5	8.8	5.0	2.5	2.5	3.8	5.0	5.0
87.5°	42.6	15.0	15.0	12.5	10.0	6.3	2.5	2.5	2.5	3.8	3.8
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)