

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: P455010

Luminaire Tested: **GALN-SA6A-830-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455010
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-830-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 17636 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

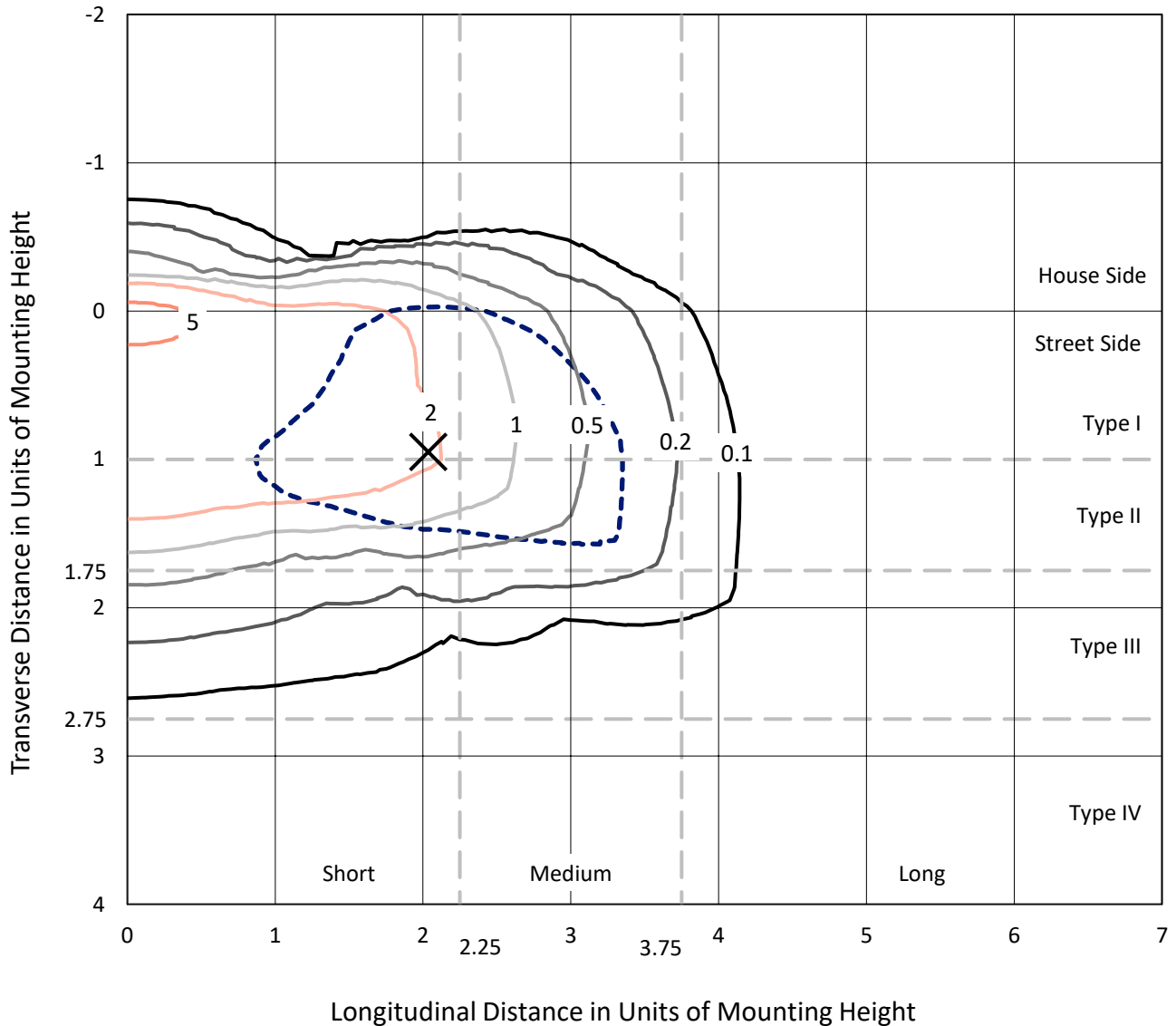
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

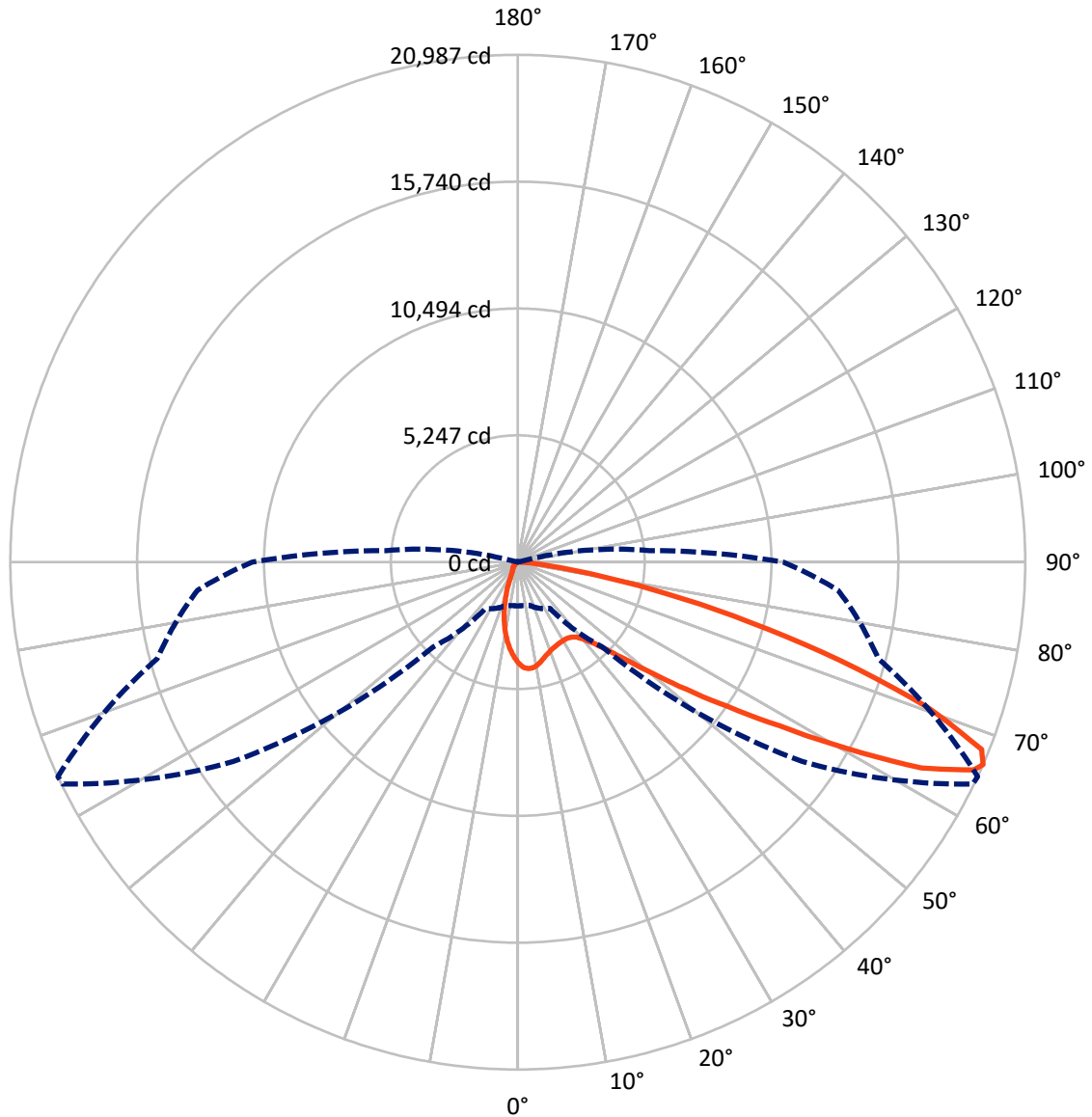
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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	1823.8	0.0	1823.8
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	15812.2	0.0	15812.2
	% Fixture	89.7	0.0	89.7
Total	Lumens	17636.0	0.0	17636.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.0	1.9
10°-20°	745.2	4.2
20°-30°	1067.6	6.1
30°-40°	1559.3	8.8
40°-50°	2614.6	14.8
50°-60°	4363.4	24.7
60°-70°	4631.6	26.3
70°-80°	2097.6	11.9
80°-90°	214.6	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°	17636.0	100.0
0°-180°	17636.0	100.0



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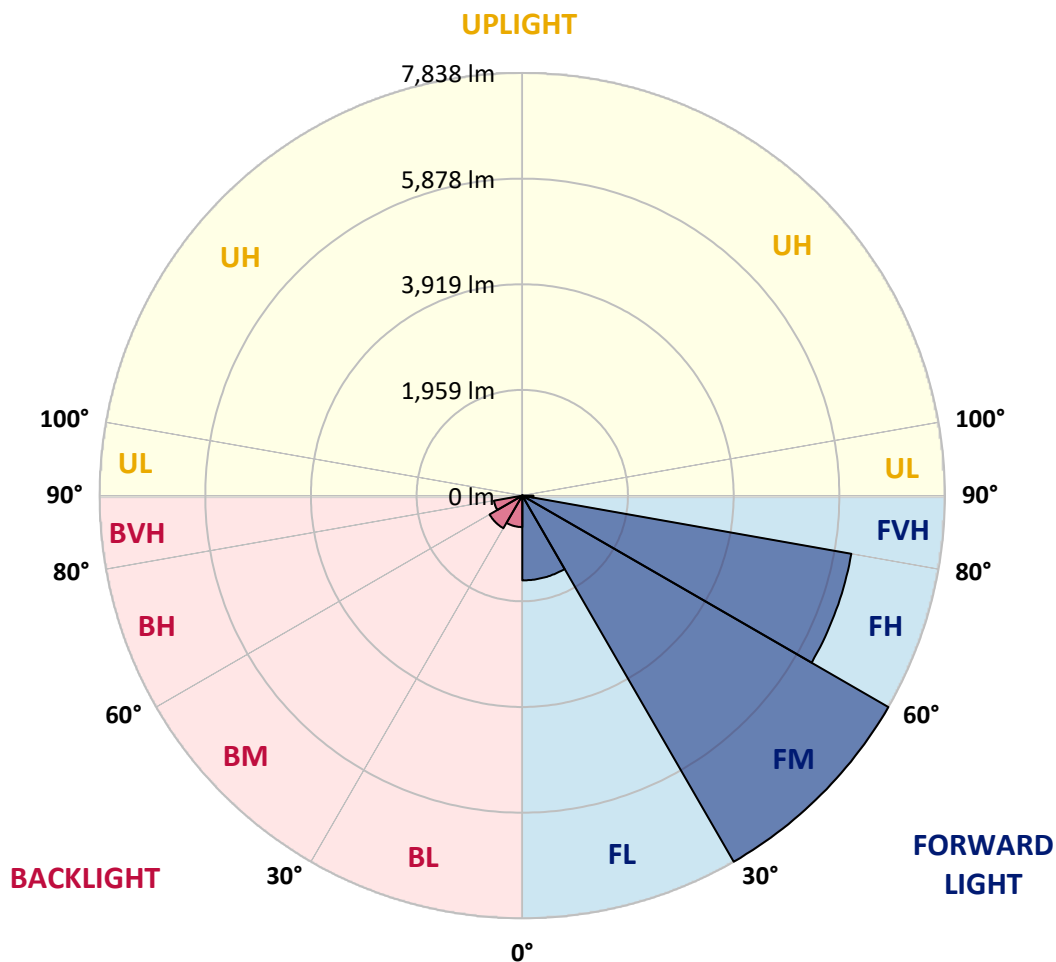
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1571.4	8.9			
FM (30°-60°)	7837.8	44.4			
FH (60°-80°)	6195.1	35.1			G3/7500
FVH (80°-90°)	207.8	1.2			G2/225
BL (0°-30°)	583.4	3.3	B2/1000		
BM (30°-60°)	699.4	4.0	B1/1000		
BH (60°-80°)	534.1	3.0	B2/1000		G2/1000
BVH (80°-90°)	6.8	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°	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1
2.5°	4407.3	4412.0	4418.0	4426.3	4432.3	4414.4	4389.4	4360.8	4354.9	4294.1	4220.3
5°	4171.4	4178.6	4231.0	4259.6	4323.9	4382.3	4419.2	4424.0	4421.6	4364.4	4246.5
7.5°	3835.5	3855.8	3907.0	3957.0	4077.3	4188.1	4319.1	4410.8	4416.8	4401.3	4254.8
10°	3562.7	3575.8	3602.1	3700.9	3801.0	3970.1	4153.6	4326.3	4340.6	4402.5	4247.7
12.5°	3349.5	3368.6	3400.7	3477.0	3597.3	3756.9	3965.4	4197.6	4227.4	4379.9	4227.4
15°	3200.6	3210.2	3242.3	3317.4	3434.1	3581.8	3792.6	4063.0	4089.2	4350.1	4223.8
17.5°	3130.4	3141.1	3163.7	3223.3	3319.7	3456.7	3662.8	3954.6	3988.0	4331.0	4236.9
20°	3149.4	3158.9	3160.1	3191.1	3256.6	3372.2	3567.5	3853.4	3896.3	4319.1	4258.4
22.5°	3257.8	3259.0	3244.7	3230.4	3253.0	3336.4	3509.1	3789.1	3833.1	4316.7	4283.4
25°	3419.8	3423.4	3399.6	3349.5	3304.3	3347.1	3496.0	3747.4	3786.7	4310.8	4298.9
27.5°	3643.7	3642.6	3635.4	3552.0	3423.4	3394.8	3506.8	3724.7	3758.1	4294.1	4304.8
30°	3957.0	3947.5	3932.0	3837.9	3641.4	3510.3	3552.0	3710.4	3741.4	4270.3	4289.3
32.5°	4265.5	4301.3	4298.9	4209.5	3964.2	3716.4	3646.1	3729.5	3752.1	4254.8	4266.7
35°	4625.3	4624.1	4715.8	4682.4	4395.4	3979.6	3806.9	3792.6	3810.5	4265.5	4256.0
37.5°	4958.8	4989.7	5132.7	5167.2	4905.2	4351.3	4034.4	3928.4	3934.4	4338.2	4282.2
40°	5374.5	5434.1	5647.3	5762.8	5531.7	4902.8	4370.3	4177.4	4178.6	4516.9	4381.1
42.5°	5910.5	6004.6	6203.5	6396.5	6272.6	5555.5	4874.2	4571.7	4569.3	4831.3	4607.4
45°	6562.1	6627.6	6853.9	7160.0	7081.4	6466.8	5608.0	5182.7	5151.7	5347.1	5008.8
47.5°	7124.3	7213.6	7443.5	7792.5	8149.9	7579.3	6484.6	6022.5	6002.2	6167.8	5697.3
50°	7369.7	7448.3	7690.1	8179.7	9045.6	9039.7	7790.2	7248.2	7213.6	7303.0	6762.2
52.5°	7100.5	7174.3	7418.5	8028.4	9467.3	10819.3	9681.7	8786.0	8744.3	8629.9	8034.3
55°	6178.5	6239.3	6600.2	7300.6	9305.3	12005.7	12288.0	10685.9	10523.9	10079.6	9474.4
57.5°	4919.5	4888.5	5112.4	5926.0	8354.8	12403.5	14963.3	13052.7	12763.2	11332.7	10693.0
60°	3409.1	3504.4	3594.9	4130.9	6282.2	11713.8	16627.3	16028.2	15647.0	12565.5	11860.3
62.5°	2506.2	2569.3	2628.9	2876.6	3949.9	9353.0	16921.6	19084.7	18746.4	13874.6	12974.1
65°	1982.1	1986.8	2010.7	2254.9	2602.7	6082.0	15507.6	20808.3	20721.3	15134.8	13425.5
66°	1805.8	1807.0	1843.9	2106.0	2335.9	4952.8	14374.9	20939.3	20987.0	15437.4	13293.3
67.5°	1578.3	1573.5	1627.1	1892.7	2127.4	3571.1	12347.5	20408.1	20690.4	15669.6	12818.0
70°	1223.3	1217.4	1282.9	1587.8	1959.5	2382.3	8207.1	17523.1	17978.1	15194.4	11341.0
72.5°	814.8	819.5	931.5	1253.1	1870.1	2097.6	4937.3	13330.2	13973.4	12547.6	8921.8
75°	475.3	483.6	611.1	931.5	1623.5	1999.9	2794.5	9505.4	9916.4	8664.5	5557.9
77.5°	249.0	252.5	341.9	614.6	1244.8	1857.0	1861.8	6072.5	6265.5	4210.7	2200.1
80°	132.2	128.6	183.4	370.4	856.4	1630.7	1510.4	3214.9	3342.4	1250.7	556.3
82.5°	50.0	54.8	97.7	243.0	506.2	1170.9	1300.7	1421.0	1377.0	275.2	233.5
85°	9.5	11.9	41.7	144.1	254.9	489.6	958.9	696.8	645.6	103.6	134.6
87.5°	1.2	2.4	11.9	34.5	36.9	165.6	283.5	193.0	166.8	38.1	56.0
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°	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1	4182.1
2.5°	4184.5	4152.4	4045.2	3939.2	3830.8	3733.1	3666.4	3558.0	3530.6	3491.3	3468.6
5°	4176.2	4101.1	3895.1	3669.9	3460.3	3234.0	3061.3	2894.5	2805.2	2759.9	2743.2
7.5°	4152.4	4033.3	3711.6	3359.1	3023.2	2684.9	2390.6	2166.7	2022.6	1923.7	1857.0
10°	4104.7	3940.3	3498.4	3013.6	2506.2	2059.5	1686.7	1403.2	1184.0	1114.9	1117.3
12.5°	4055.9	3836.7	3260.2	2630.1	2001.1	1437.7	1042.3	818.3	713.5	679.0	671.8
15°	4010.6	3737.8	3026.7	2258.4	1490.1	931.5	671.8	593.2	564.6	558.7	557.5
17.5°	3986.8	3646.1	2777.8	1833.2	1039.9	632.5	538.4	517.0	508.6	502.7	500.3
20°	3966.5	3566.3	2539.5	1435.3	711.1	518.2	482.4	462.2	447.9	441.9	438.3
22.5°	3952.3	3484.1	2293.0	1111.3	544.4	459.8	427.6	401.4	381.2	374.0	369.3
25°	3930.8	3393.6	2044.0	812.4	458.6	408.6	371.6	340.7	314.5	301.4	299.0
27.5°	3899.8	3291.2	1771.2	601.5	409.8	363.3	318.0	279.9	253.7	239.4	240.6
30°	3849.8	3184.0	1498.5	477.7	370.4	316.8	268.0	231.1	206.1	195.3	194.2
32.5°	3790.3	3054.1	1248.3	409.8	334.7	275.2	223.9	191.8	172.7	164.4	163.2
35°	3734.3	2923.1	993.4	368.1	297.8	237.0	188.2	160.8	146.5	139.4	140.6
37.5°	3703.3	2806.4	774.3	334.7	268.0	203.7	162.0	138.2	125.1	119.1	117.9
40°	3723.6	2711.1	615.8	304.9	234.7	175.1	139.4	119.1	106.0	97.7	97.7
42.5°	3818.8	2669.4	496.7	276.3	203.7	151.3	121.5	102.4	88.1	79.8	81.0
45°	4109.5	2713.5	415.7	250.1	175.1	131.0	104.8	84.6	71.5	65.5	64.3
47.5°	4591.9	2879.0	359.7	222.7	150.1	112.0	88.1	70.3	57.2	52.4	51.2
50°	5435.2	3220.9	318.0	195.3	127.5	95.3	72.7	56.0	45.3	40.5	40.5
52.5°	6595.4	3966.5	288.3	164.4	107.2	81.0	59.6	45.3	35.7	32.2	31.0
55°	7808.0	4752.7	272.8	138.2	89.3	66.7	47.6	35.7	27.4	23.8	22.6
57.5°	8974.2	5369.7	254.9	112.0	71.5	51.2	36.9	27.4	19.1	16.7	15.5
60°	10092.7	5868.8	216.8	89.3	56.0	36.9	27.4	19.1	13.1	10.7	10.7
62.5°	11093.2	6159.5	170.3	71.5	42.9	26.2	17.9	14.3	9.5	7.1	7.1
65°	11210.0	5781.9	128.6	54.8	31.0	16.7	10.7	10.7	7.1	4.8	4.8
66°	10975.3	5461.4	113.2	50.0	27.4	14.3	9.5	8.3	6.0	3.6	3.6
67.5°	10451.2	4914.7	97.7	42.9	22.6	10.7	7.1	7.1	4.8	2.4	2.4
70°	9030.1	4014.2	77.4	32.2	16.7	8.3	4.8	4.8	3.6	2.4	2.4
72.5°	6882.5	2996.9	63.1	23.8	11.9	6.0	3.6	3.6	3.6	2.4	2.4
75°	4151.2	1614.0	48.8	17.9	10.7	4.8	2.4	3.6	4.8	3.6	2.4
77.5°	1529.4	549.1	38.1	14.3	8.3	4.8	2.4	2.4	4.8	3.6	3.6
80°	375.2	142.9	27.4	11.9	8.3	4.8	2.4	2.4	4.8	4.8	4.8
82.5°	173.9	60.7	19.1	10.7	8.3	4.8	2.4	2.4	3.6	4.8	4.8
85°	100.1	28.6	15.5	11.9	8.3	4.8	2.4	2.4	3.6	4.8	4.8
87.5°	40.5	14.3	14.3	11.9	9.5	6.0	2.4	2.4	2.4	3.6	3.6
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)