

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: P652144

Luminaire Tested: **GALN-SA9A-840-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652144
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-840-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25106.4 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

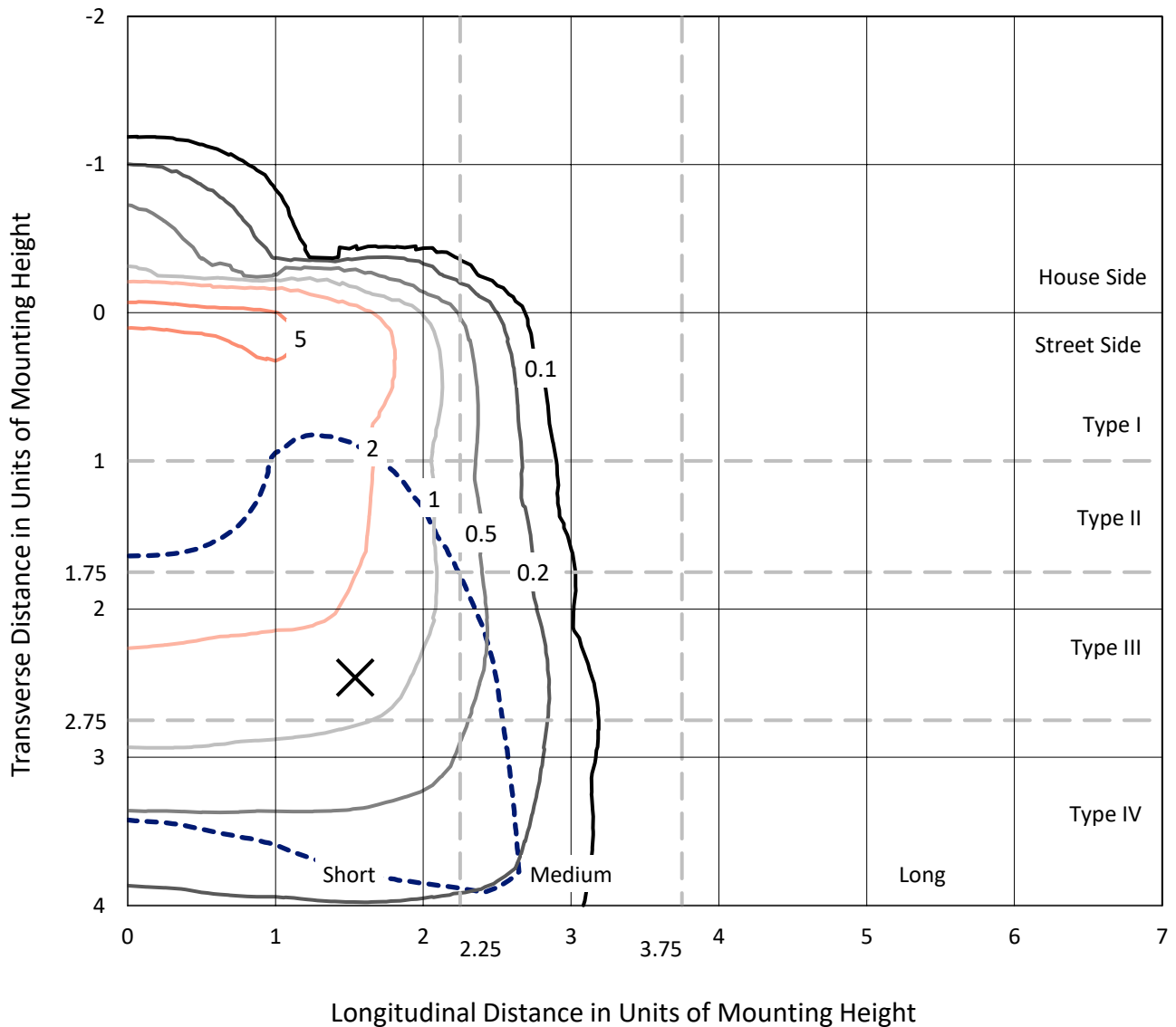
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

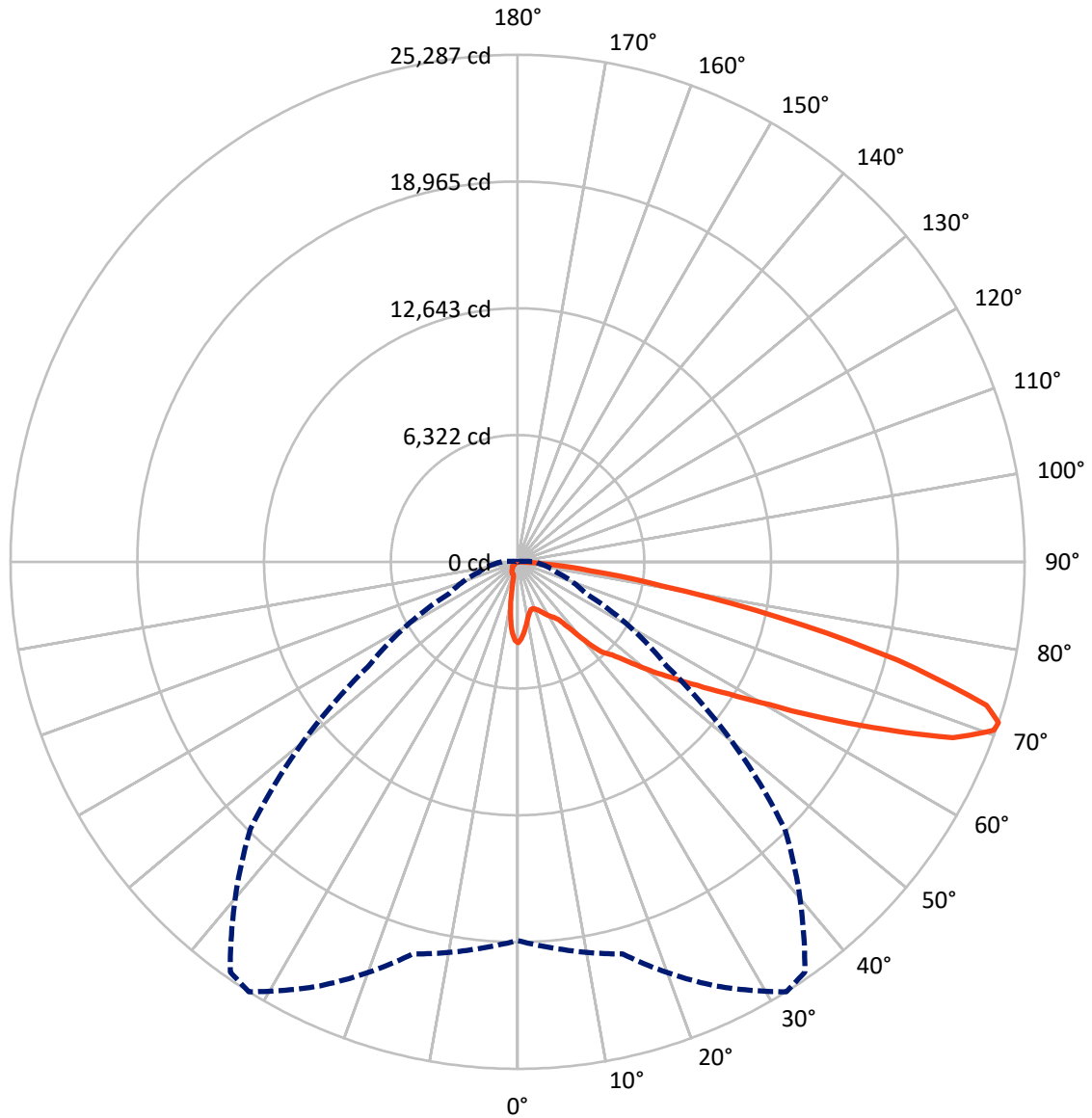
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2102.9	0.0	2102.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	23003.5	0.0	23003.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	25106.4	0.0	25106.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.3	1.3
10°-20°	712.5	2.8
20°-30°	1108.5	4.4
30°-40°	1846.7	7.4
40°-50°	3435.2	13.7
50°-60°	5515.3	22.0
60°-70°	7418.3	29.5
70°-80°	4401.4	17.5
80°-90°	340.2	1.4
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°	25106.4	100.0
0°-180°	25106.4	100.0

Coefficient of Utilization



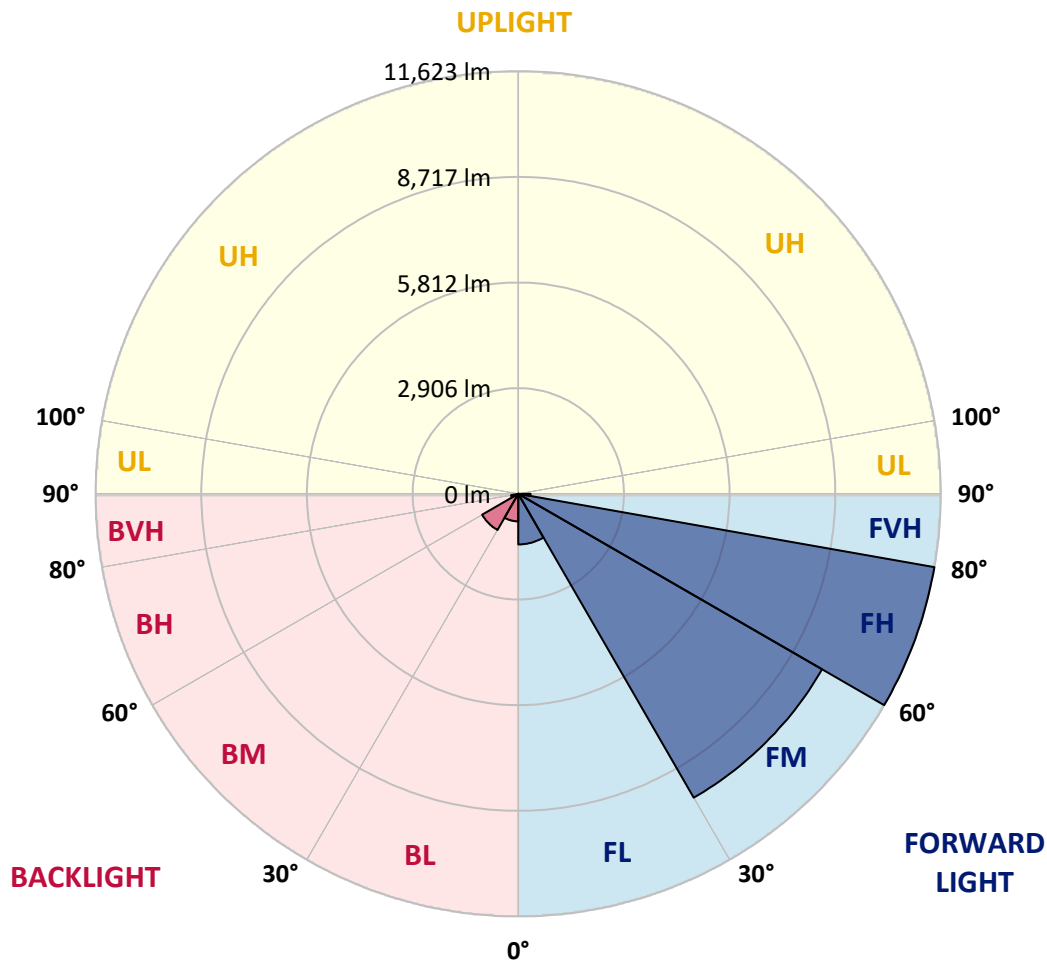
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1391.6	5.5			
FM (30°-60°)	9650.0	38.4			
FH (60°-80°)	11623.0	46.3			G4/12000
FVH (80°-90°)	338.9	1.3			G3/500
BL (0°-30°)	757.7	3.0	B2/1000		
BM (30°-60°)	1147.2	4.6	B2/2500		
BH (60°-80°)	196.7	0.8	B1/500		G1/500
BVH (80°-90°)	1.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5
2.5°	3744.6	3783.1	3777.4	3790.8	3823.6	3837.1	3873.6	3914.2	3970.0	4008.6	4033.6
5°	3353.3	3382.2	3386.1	3453.6	3486.3	3522.9	3630.8	3748.4	3879.4	3983.6	4052.9
7.5°	2935.2	2950.6	2981.4	3070.1	3152.9	3189.5	3353.3	3557.6	3763.8	3958.5	4083.7
10°	2590.2	2607.5	2663.4	2757.8	2834.9	2883.1	3110.5	3366.9	3655.9	3945.0	4128.0
12.5°	2393.6	2403.2	2424.4	2509.2	2607.5	2659.6	2904.3	3197.2	3569.2	3950.8	4203.2
15°	2380.1	2376.2	2351.2	2385.9	2474.6	2528.5	2767.5	3081.6	3492.1	3970.0	4291.9
17.5°	2451.4	2441.8	2382.0	2382.0	2455.3	2499.6	2709.6	3019.9	3453.6	4014.3	4417.2
20°	2561.3	2545.9	2447.6	2439.8	2511.1	2557.4	2744.4	3023.8	3461.3	4097.3	4584.8
22.5°	2700.0	2682.7	2534.3	2538.1	2615.3	2661.5	2844.5	3093.2	3509.4	4199.4	4764.0
25°	2881.2	2861.9	2686.5	2678.8	2759.7	2800.2	2993.0	3216.5	3576.9	4326.6	4999.2
27.5°	3122.0	3081.6	2871.5	2860.0	2946.7	2998.8	3172.2	3382.2	3696.4	4502.0	5315.2
30°	3320.6	3276.3	3075.8	3045.0	3137.5	3178.0	3357.2	3605.8	3931.5	4808.4	5752.7
32.5°	3580.7	3515.2	3280.1	3199.2	3297.5	3349.5	3625.0	4022.1	4280.4	5132.1	6273.0
35°	4166.7	4126.1	3839.0	3555.7	3549.9	3615.5	4020.1	4442.2	4638.8	5637.1	6982.2
37.5°	5005.0	4976.0	4671.6	4291.9	4182.0	4151.2	4500.0	4904.7	5211.2	6330.9	7807.1
40°	5978.2	5910.7	5631.3	5309.5	5166.9	5076.3	5066.6	5592.7	5958.9	7273.3	8666.7
42.5°	6675.9	6552.5	6213.3	6190.2	6159.3	6065.0	5791.3	6598.7	6924.5	8287.0	9585.9
45°	7408.2	7221.2	6716.3	6629.6	6618.0	6612.3	6885.9	7789.8	7976.7	9385.5	10530.2
47.5°	7976.7	7828.3	7414.0	7375.4	7423.6	7554.6	8333.2	9054.0	9015.4	10364.5	11322.3
50°	8734.1	8622.4	8161.7	8235.0	8483.6	8697.5	9965.6	10431.9	9869.2	11135.4	11898.6
52.5°	9628.4	9422.1	8994.2	9192.8	9574.4	9930.9	11698.1	11638.4	10468.6	11715.5	12328.3
55°	10403.1	10256.6	10110.2	10316.3	10886.8	11332.0	13263.1	12542.3	10904.2	12181.9	12517.2
57.5°	11713.5	11678.9	11528.5	11738.6	12430.5	12893.0	14664.1	13243.7	11183.6	12424.7	12295.6
60°	13652.3	13596.4	13317.0	13584.8	14486.8	15213.4	15955.4	13874.0	11247.2	12330.2	11657.7
62.5°	15984.2	15793.5	15554.5	15949.6	17186.8	17506.8	17171.4	14247.8	11010.1	11578.6	10119.8
65°	18162.0	17965.4	17971.2	18803.8	20150.9	20368.7	18589.8	14192.0	10316.3	9695.8	7464.0
67.5°	19829.0	19796.3	20031.4	21656.0	23417.5	23267.2	19857.9	13355.5	8260.0	6284.6	3966.2
70°	19913.8	19977.5	20651.9	23394.3	25182.8	24943.8	19750.0	10856.0	5149.5	2890.8	1563.0
71°	18888.5	19316.4	20249.2	23340.4	25286.9	24976.6	18840.3	9092.6	3777.4	2015.9	1127.4
72.5°	16096.1	16321.5	18337.3	21966.3	24463.9	23801.0	16533.5	6373.3	2418.6	1233.4	647.6
75°	8865.1	9420.2	12280.2	17233.1	19567.0	18984.9	10775.0	3027.6	1206.4	674.5	267.9
77.5°	4220.6	4112.7	5991.7	10248.8	13266.9	13236.1	5428.9	1345.2	703.4	456.7	134.9
80°	1206.4	1356.8	2293.4	4872.0	7365.8	7446.7	2085.3	649.5	487.6	356.5	69.4
82.5°	364.2	372.0	842.2	2154.6	3663.6	3453.6	782.5	331.4	350.8	283.3	40.5
85°	63.6	79.1	248.6	759.3	1397.2	1060.0	196.5	158.0	231.3	187.0	23.1
87.5°	3.9	5.8	82.8	86.7	123.4	71.3	34.6	23.1	50.1	50.1	13.5
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°	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5	4037.5
2.5°	4051.0	4062.5	4054.9	4037.5	4008.6	3973.9	3927.6	3889.1	3856.3	3839.0	3860.2
5°	4076.1	4091.5	4052.9	3966.2	3835.1	3692.5	3530.6	3405.4	3307.1	3276.3	3264.7
7.5°	4114.6	4124.2	4020.1	3827.4	3549.9	3212.6	2917.8	2669.2	2476.5	2418.6	2333.9
10°	4164.7	4158.9	3962.4	3603.9	3116.3	2609.5	2152.7	1813.5	1557.2	1464.7	1456.9
12.5°	4241.8	4211.0	3889.1	3299.4	2599.8	1936.8	1372.2	1073.5	911.6	857.6	846.0
15°	4338.1	4264.9	3773.5	2942.8	1990.8	1250.7	846.0	755.5	734.3	730.4	726.5
17.5°	4451.8	4336.2	3621.3	2505.3	1399.2	811.3	707.3	705.3	707.3	703.4	701.5
20°	4606.0	4411.4	3440.0	1986.9	925.1	684.2	674.5	674.5	676.4	674.5	674.5
22.5°	4769.8	4500.0	3216.5	1516.7	697.6	649.5	647.6	651.4	655.2	653.3	653.3
25°	4972.2	4615.7	2921.6	1038.8	624.4	620.6	622.5	630.2	637.9	639.8	637.9
27.5°	5265.2	4758.3	2605.6	715.0	572.4	576.3	595.5	614.8	626.4	628.3	628.3
30°	5594.7	4916.3	2193.2	580.1	530.0	530.0	553.1	589.7	614.8	618.6	620.6
32.5°	6018.7	5099.4	1736.4	522.3	489.5	485.7	506.9	551.2	597.4	610.9	610.9
35°	6542.9	5315.2	1291.2	485.7	460.6	450.9	462.6	499.1	558.9	597.4	601.3
37.5°	7157.7	5519.5	944.4	452.9	433.6	420.2	427.8	456.7	504.9	562.7	578.2
40°	7726.2	5700.6	705.3	425.9	406.6	397.0	402.8	416.3	456.7	510.7	520.3
42.5°	8346.8	5841.3	560.8	397.0	379.6	375.8	375.8	381.6	408.6	439.4	441.4
45°	8965.4	5891.5	470.2	362.3	350.8	354.6	352.7	348.8	360.4	356.5	356.5
47.5°	9406.7	5831.7	389.3	329.6	329.6	335.3	325.7	312.2	306.5	283.3	285.3
50°	9709.3	5613.9	319.9	291.0	306.5	314.1	294.9	273.7	252.5	227.4	221.6
52.5°	9834.6	5226.6	262.1	240.9	271.7	281.4	258.3	233.2	200.4	179.2	173.4
55°	9753.6	4748.6	217.7	196.5	229.3	240.9	217.7	188.9	152.2	129.1	125.3
57.5°	9397.1	4178.2	185.0	156.1	183.1	190.8	175.3	144.6	107.9	84.8	84.8
60°	8780.4	3588.5	150.3	123.4	136.8	148.4	133.0	104.0	73.3	52.1	48.2
62.5°	7529.6	2913.9	121.4	96.4	96.4	106.0	92.5	75.2	46.3	27.0	25.1
65°	5436.6	1998.6	96.4	71.3	69.4	69.4	57.8	50.1	27.0	11.5	7.7
67.5°	2954.4	1127.4	77.1	54.0	48.2	46.3	36.6	28.9	11.5	1.9	0.0
70°	1162.1	433.6	59.7	36.6	30.9	28.9	19.3	13.5	7.7	0.0	0.0
71°	788.3	298.7	52.1	30.9	25.1	21.2	15.4	11.5	5.8	0.0	0.0
72.5°	450.9	185.0	40.5	23.1	19.3	15.4	11.5	7.7	5.8	0.0	0.0
75°	196.5	94.4	25.1	17.3	13.5	9.7	7.7	5.8	1.9	0.0	0.0
77.5°	100.2	52.1	17.3	13.5	7.7	5.8	3.9	1.9	0.0	0.0	0.0
80°	55.9	27.0	11.5	7.7	5.8	3.9	1.9	1.9	0.0	0.0	0.0
82.5°	30.9	15.4	5.8	3.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.3	9.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.7	3.9	0.0	0.0	0.0	0.0	1.9	1.9	0.0	0.0	0.0
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)