

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: P452545

Luminaire Tested: **GALN-SA3C-730-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452545
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-SA3C-730-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 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: 15643 lumens
Efficiency: N/A
Efficacy: 97.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

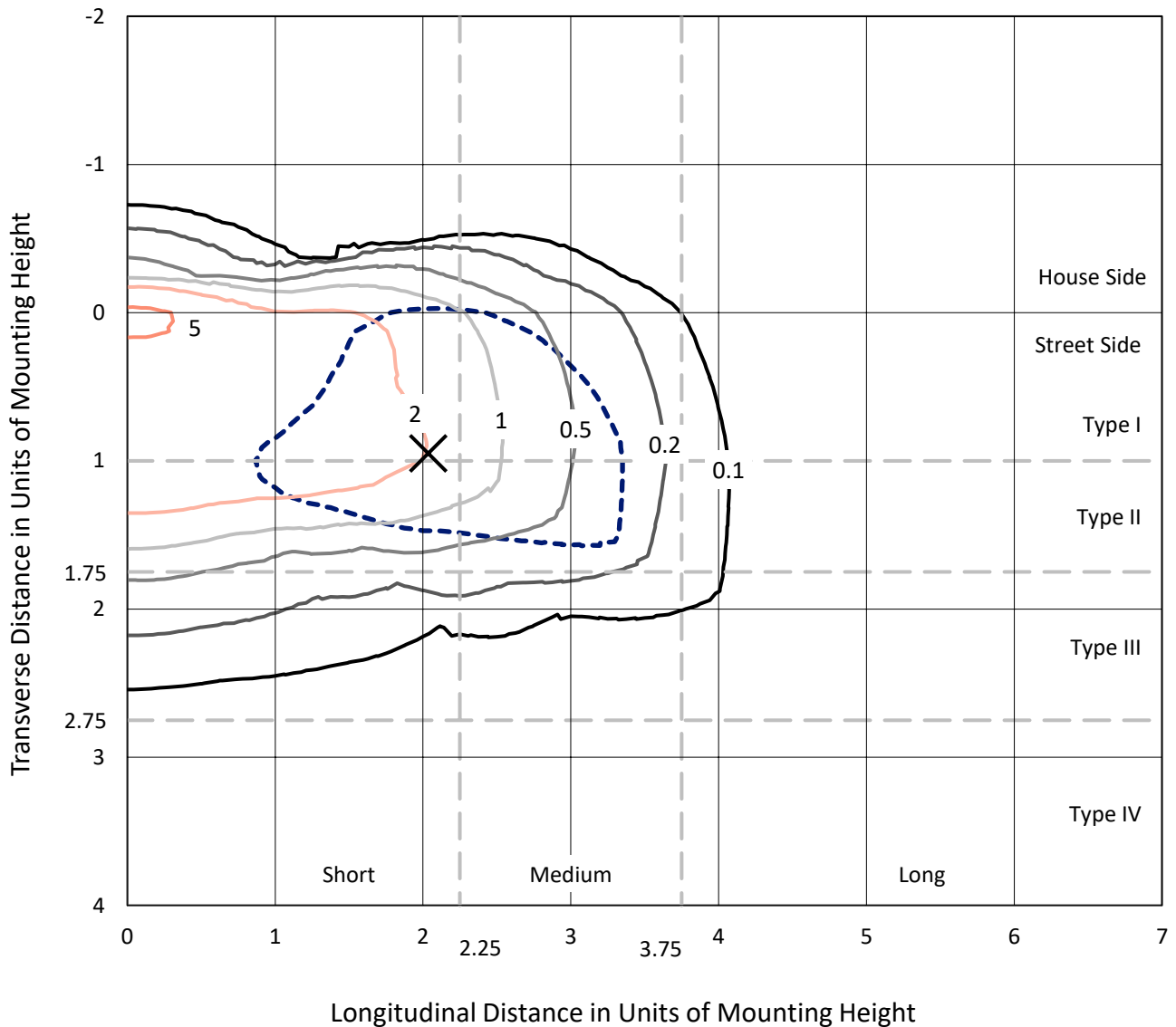
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

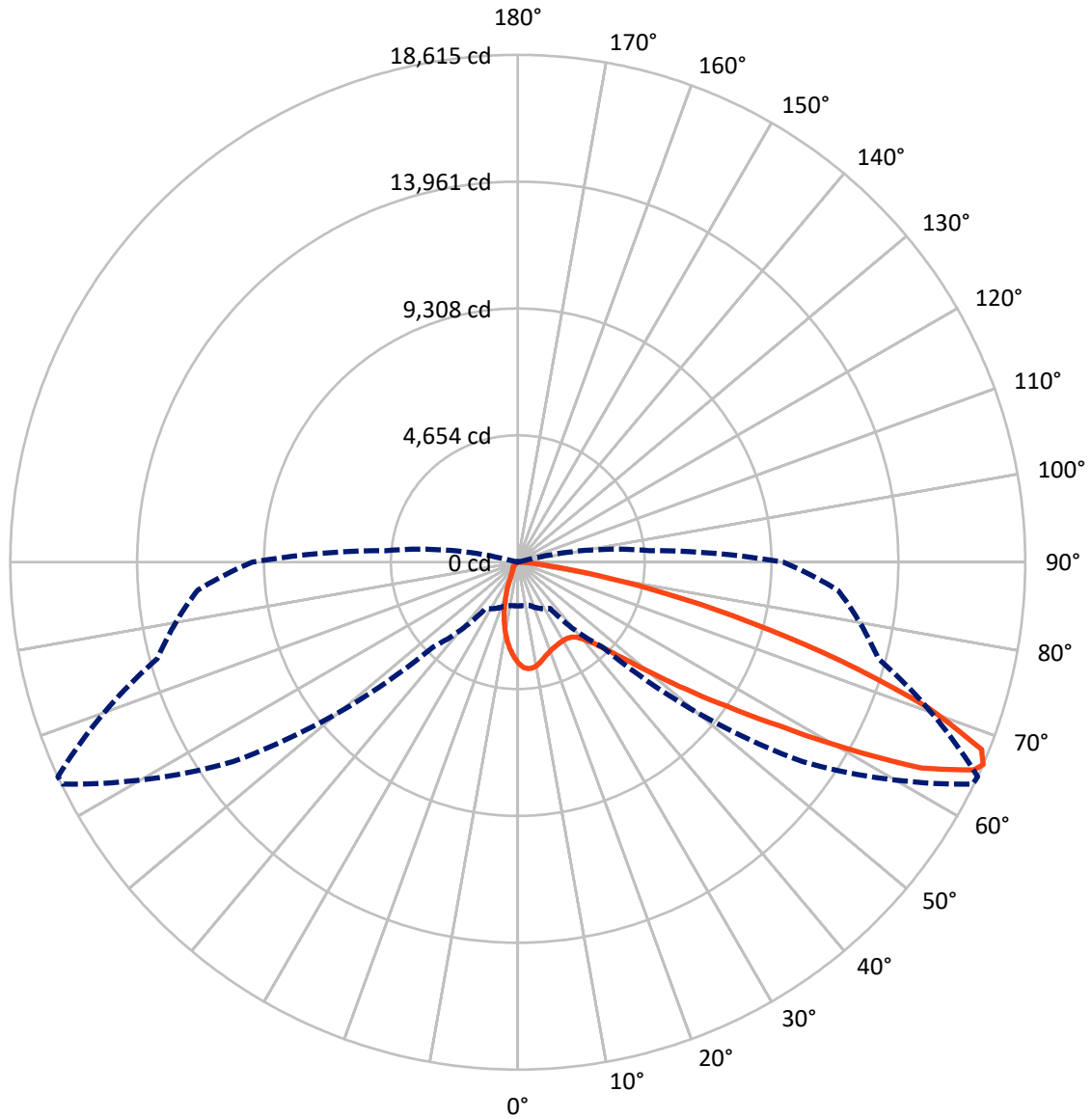
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	1617.7	0.0	1617.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	14025.3	0.0	14025.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	15643.0	0.0	15643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.4	1.9
10°-20°	661.0	4.2
20°-30°	946.9	6.1
30°-40°	1383.1	8.8
40°-50°	2319.2	14.8
50°-60°	3870.3	24.7
60°-70°	4108.2	26.3
70°-80°	1860.6	11.9
80°-90°	190.4	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°	15643.0	100.0
0°-180°	15643.0	100.0

Coefficient of Utilization



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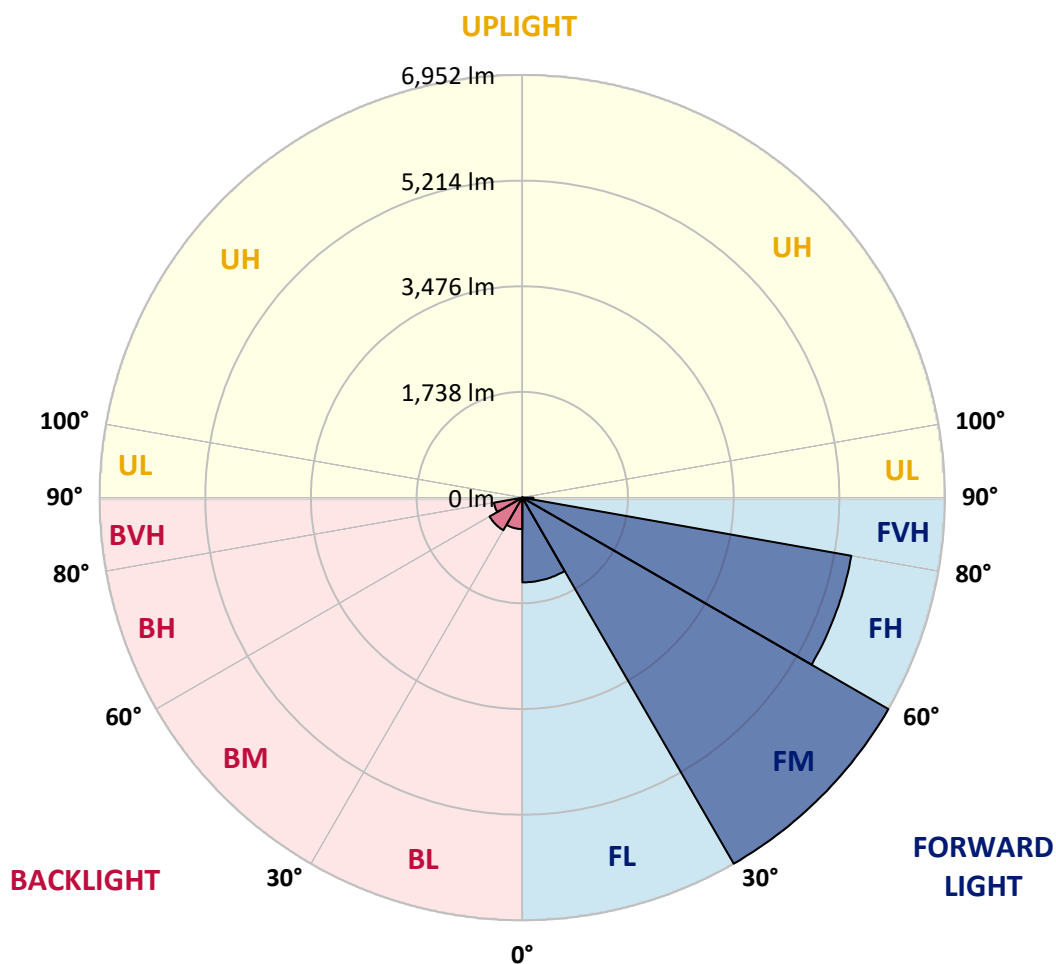
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1393.8	8.9			
FM (30°-60°)	6952.1	44.4			
FH (60°-80°)	5495.0	35.1			G3/7500
FVH (80°-90°)	184.3	1.2			G2/225
BL (0°-30°)	517.5	3.3	B2/1000		
BM (30°-60°)	620.4	4.0	B1/1000		
BH (60°-80°)	473.8	3.0	B1/500		G1/500
BVH (80°-90°)	6.1	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°	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5
2.5°	3909.2	3913.4	3918.7	3926.1	3931.4	3915.6	3893.4	3868.0	3862.7	3808.8	3743.3
5°	3700.0	3706.4	3752.9	3778.2	3835.3	3887.0	3919.8	3924.0	3921.9	3871.2	3766.6
7.5°	3402.1	3420.0	3465.5	3509.8	3616.6	3714.8	3831.0	3912.4	3917.7	3903.9	3774.0
10°	3160.1	3171.8	3195.0	3282.7	3371.4	3521.5	3684.2	3837.4	3850.1	3905.0	3767.6
12.5°	2971.0	2987.9	3016.4	3084.1	3190.8	3332.3	3517.2	3723.3	3749.7	3884.9	3749.7
15°	2838.9	2847.4	2875.9	2942.5	3046.0	3177.0	3364.0	3603.9	3627.1	3858.5	3746.5
17.5°	2776.6	2786.1	2806.2	2859.0	2944.6	3066.1	3248.9	3507.7	3537.3	3841.6	3758.1
20°	2793.5	2802.0	2803.0	2830.5	2888.6	2991.1	3164.4	3417.9	3456.0	3831.0	3777.2
22.5°	2889.7	2890.7	2878.0	2865.4	2885.4	2959.4	3112.6	3360.9	3400.0	3828.9	3799.3
25°	3033.3	3036.5	3015.4	2971.0	2930.9	2968.9	3101.0	3323.9	3358.8	3823.6	3813.1
27.5°	3232.0	3230.9	3224.6	3150.6	3036.5	3011.2	3110.5	3303.8	3333.4	3808.8	3818.4
30°	3509.8	3501.4	3487.7	3404.2	3229.9	3113.6	3150.6	3291.1	3318.6	3787.7	3804.6
32.5°	3783.5	3815.2	3813.1	3733.8	3516.2	3296.4	3234.1	3308.0	3328.1	3774.0	3784.5
35°	4102.6	4101.5	4182.9	4153.3	3898.7	3529.9	3376.7	3364.0	3379.9	3783.5	3775.0
37.5°	4398.4	4425.9	4552.7	4583.3	4350.9	3859.6	3578.5	3484.5	3489.8	3847.9	3798.3
40°	4767.1	4820.0	5009.1	5111.6	4906.6	4348.7	3876.5	3705.3	3706.4	4006.4	3886.0
42.5°	5242.6	5326.0	5502.5	5673.7	5563.8	4927.7	4323.4	4055.0	4052.9	4285.3	4086.7
45°	5820.5	5878.6	6079.4	6350.9	6281.2	5736.0	4974.2	4597.0	4569.6	4742.8	4442.8
47.5°	6319.2	6398.4	6602.4	6911.9	7228.9	6722.8	5751.8	5341.9	5323.9	5470.8	5053.5
50°	6536.8	6606.6	6821.1	7255.3	8023.4	8018.1	6909.8	6429.1	6398.4	6477.7	5998.0
52.5°	6298.1	6363.6	6580.2	7121.1	8397.4	9596.6	8587.6	7793.1	7756.1	7654.7	7126.4
55°	5480.3	5534.2	5854.3	6475.6	8253.7	10648.9	10899.3	9478.3	9334.6	8940.5	8403.8
57.5°	4363.5	4336.1	4534.7	5256.3	7410.6	11001.8	13272.3	11577.6	11320.9	10052.0	9484.6
60°	3023.8	3108.4	3188.7	3664.1	5572.2	10390.1	14748.3	14216.9	13878.8	11145.5	10520.0
62.5°	2223.0	2279.0	2331.8	2551.6	3503.5	8296.0	15009.3	16928.0	16627.9	12306.6	11507.9
65°	1758.1	1762.3	1783.4	2000.0	2308.6	5394.7	13755.2	18456.8	18379.7	13424.5	11908.3
66°	1601.7	1602.8	1635.5	1868.0	2071.9	4393.1	12750.4	18573.0	18615.3	13692.8	11791.1
67.5°	1399.9	1395.7	1443.2	1678.9	1887.0	3167.5	10952.2	18101.8	18352.2	13898.9	11369.5
70°	1085.1	1079.8	1137.9	1408.4	1738.0	2113.1	7279.6	15542.8	15946.4	13477.3	10059.4
72.5°	722.7	726.9	826.2	1111.5	1658.8	1860.6	4379.4	11823.8	12394.3	11129.7	7913.5
75°	421.6	429.0	542.0	826.2	1440.1	1773.9	2478.7	8431.2	8795.7	7685.3	4929.8
77.5°	220.8	224.0	303.2	545.2	1104.1	1647.2	1651.4	5386.3	5557.4	3734.9	1951.4
80°	117.3	114.1	162.7	328.6	759.7	1446.4	1339.7	2851.6	2964.7	1109.4	493.4
82.5°	44.4	48.6	86.6	215.5	449.0	1038.6	1153.7	1260.5	1221.4	244.1	207.1
85°	8.5	10.6	37.0	127.8	226.1	434.2	850.5	618.1	572.6	91.9	119.4
87.5°	1.1	2.1	10.6	30.6	32.8	146.9	251.5	171.2	147.9	33.8	49.7
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°	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5	3709.5
2.5°	3711.6	3683.1	3588.0	3494.0	3397.9	3311.2	3252.0	3155.9	3131.6	3096.7	3076.7
5°	3704.2	3637.7	3454.9	3255.2	3069.3	2868.5	2715.3	2567.4	2488.2	2448.0	2433.2
7.5°	3683.1	3577.5	3292.2	2979.5	2681.5	2381.5	2120.5	1921.9	1794.0	1706.3	1647.2
10°	3640.9	3495.1	3103.1	2673.1	2223.0	1826.8	1496.1	1244.6	1050.2	988.9	991.0
12.5°	3597.5	3403.1	2891.8	2332.9	1775.0	1275.3	924.5	725.8	632.9	602.2	595.9
15°	3557.4	3315.4	2684.7	2003.2	1321.7	826.2	595.9	526.2	500.8	495.5	494.5
17.5°	3536.3	3234.1	2463.9	1626.0	922.4	561.0	477.6	458.5	451.1	445.9	443.7
20°	3518.3	3163.3	2252.6	1273.1	630.8	459.6	427.9	409.9	397.3	392.0	388.8
22.5°	3505.6	3090.4	2033.9	985.8	482.8	407.8	379.3	356.1	338.1	331.8	327.5
25°	3486.6	3010.1	1813.0	720.6	406.8	362.4	329.6	302.2	278.9	267.3	265.2
27.5°	3459.1	2919.2	1571.1	533.6	363.5	322.2	282.1	248.3	225.0	212.4	213.4
30°	3414.8	2824.1	1329.1	423.7	328.6	281.0	237.7	205.0	182.8	173.3	172.2
32.5°	3361.9	2709.0	1107.3	363.5	296.9	244.1	198.6	170.1	153.2	145.8	144.7
35°	3312.3	2592.8	881.2	326.5	264.1	210.3	166.9	142.6	130.0	123.6	124.7
37.5°	3284.8	2489.2	686.8	296.9	237.7	180.7	143.7	122.6	110.9	105.7	104.6
40°	3302.8	2404.7	546.2	270.5	208.1	155.3	123.6	105.7	94.0	86.6	86.6
42.5°	3387.3	2367.7	440.6	245.1	180.7	134.2	107.8	90.9	78.2	70.8	71.8
45°	3645.1	2406.8	368.7	221.9	155.3	116.2	93.0	75.0	63.4	58.1	57.1
47.5°	4073.0	2553.7	319.1	197.6	133.1	99.3	78.2	62.3	50.7	46.5	45.4
50°	4821.0	2856.9	282.1	173.3	113.1	84.5	64.4	49.7	40.1	35.9	35.9
52.5°	5850.1	3518.3	255.7	145.8	95.1	71.8	52.8	40.1	31.7	28.5	27.5
55°	6925.7	4215.6	241.9	122.6	79.2	59.2	42.3	31.7	24.3	21.1	20.1
57.5°	7960.0	4762.9	226.1	99.3	63.4	45.4	32.8	24.3	16.9	14.8	13.7
60°	8952.1	5205.6	192.3	79.2	49.7	32.8	24.3	16.9	11.6	9.5	9.5
62.5°	9839.6	5463.4	151.1	63.4	38.0	23.2	15.8	12.7	8.5	6.3	6.3
65°	9943.2	5128.5	114.1	48.6	27.5	14.8	9.5	9.5	6.3	4.2	4.2
66°	9735.0	4844.3	100.4	44.4	24.3	12.7	8.5	7.4	5.3	3.2	3.2
67.5°	9270.1	4359.3	86.6	38.0	20.1	9.5	6.3	6.3	4.2	2.1	2.1
70°	8009.7	3560.6	68.7	28.5	14.8	7.4	4.2	4.2	3.2	2.1	2.1
72.5°	6104.7	2658.3	56.0	21.1	10.6	5.3	3.2	3.2	3.2	2.1	2.1
75°	3682.1	1431.6	43.3	15.8	9.5	4.2	2.1	3.2	4.2	3.2	2.1
77.5°	1356.6	487.1	33.8	12.7	7.4	4.2	2.1	2.1	4.2	3.2	3.2
80°	332.8	126.8	24.3	10.6	7.4	4.2	2.1	2.1	4.2	4.2	4.2
82.5°	154.3	53.9	16.9	9.5	7.4	4.2	2.1	2.1	3.2	4.2	4.2
85°	88.7	25.4	13.7	10.6	7.4	4.2	2.1	2.1	3.2	4.2	4.2
87.5°	35.9	12.7	12.7	10.6	8.5	5.3	2.1	2.1	2.1	3.2	3.2
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)