

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: P646835

Luminaire Tested: **GALN-SA3C-835-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646835
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-835-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13593.7 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

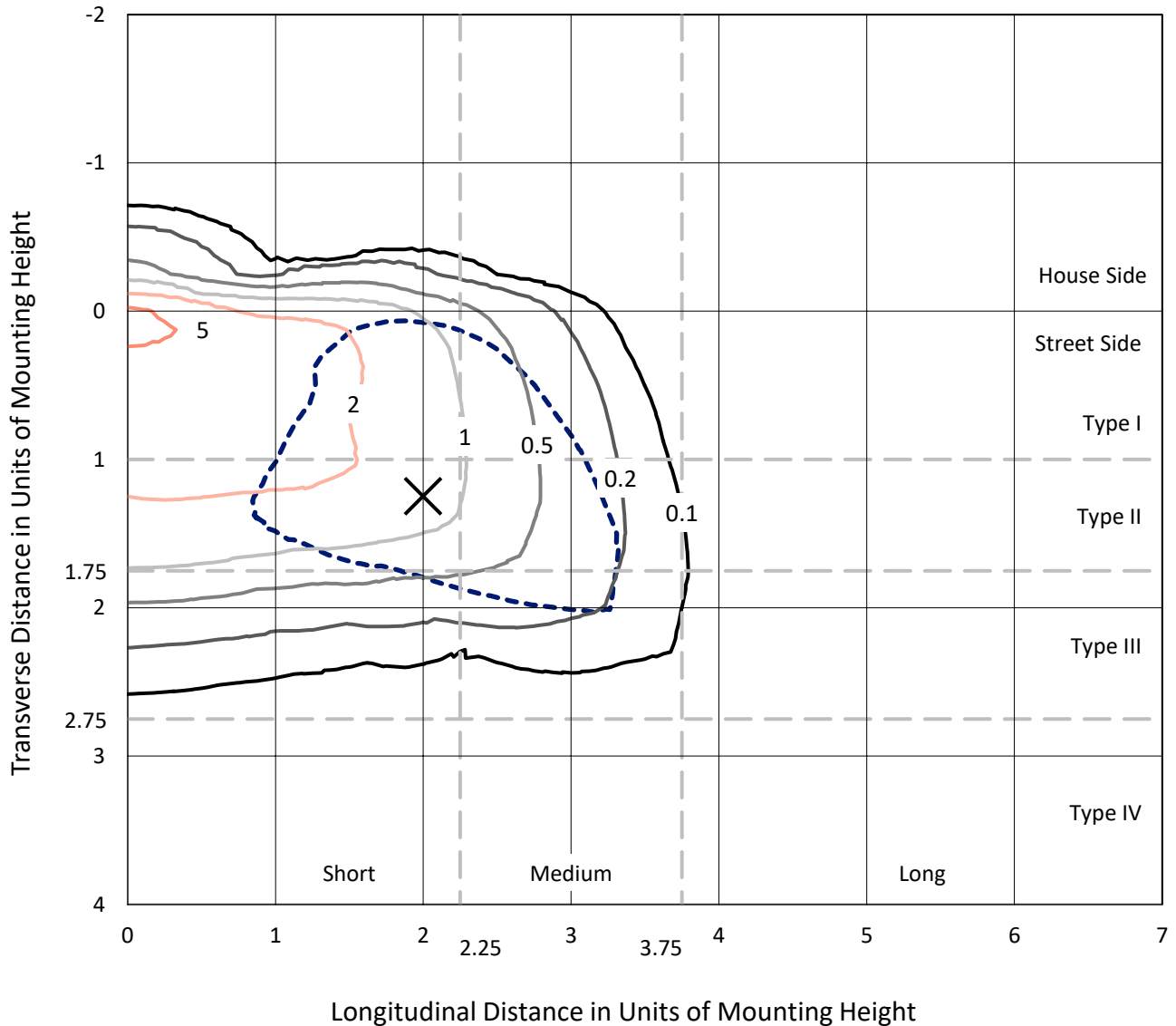
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

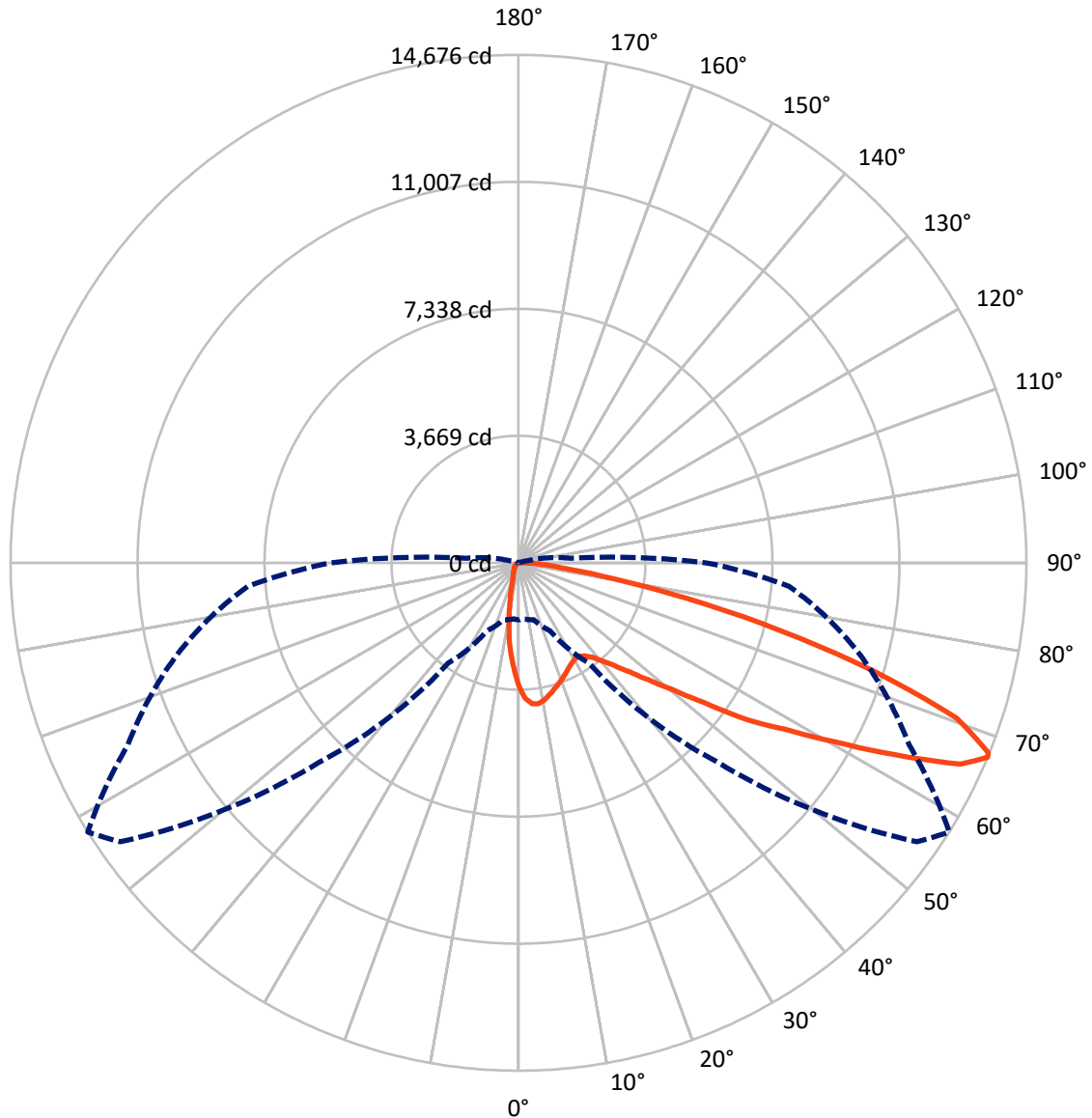
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	981.0	0.0	981.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12612.7	0.0	12612.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	13593.7	0.0	13593.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.4	2.2
10°-20°	631.6	4.6
20°-30°	855.8	6.3
30°-40°	1187.0	8.7
40°-50°	1893.0	13.9
50°-60°	3272.3	24.1
60°-70°	3738.0	27.5
70°-80°	1558.4	11.5
80°-90°	165.2	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°	13593.7	100.0
0°-180°	13593.7	100.0

Coefficient of Utilization



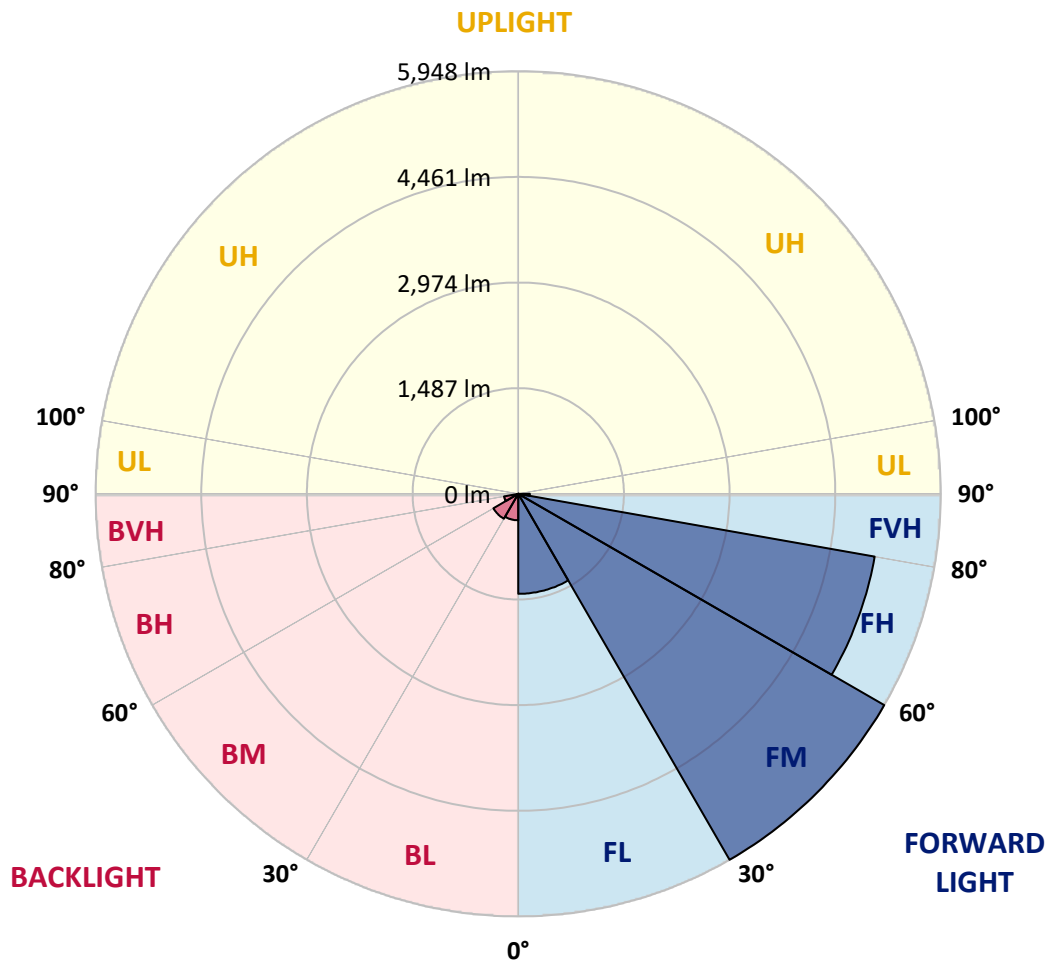
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1407.3	10.4			
FM (30°-60°)	5947.8	43.8			
FH (60°-80°)	5093.6	37.5			G3/7500
FVH (80°-90°)	164.0	1.2			G2/225
BL (0°-30°)	372.5	2.7	B1/500		
BM (30°-60°)	404.5	3.0	B1/1000		
BH (60°-80°)	202.8	1.5	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5
2.5°	4182.2	4188.6	4164.9	4145.8	4096.8	4044.1	3974.2	3936.9	3873.3	3763.4	3641.7
5°	4280.3	4288.5	4284.8	4280.3	4261.2	4210.3	4121.3	4088.7	3995.1	3816.1	3596.3
7.5°	4062.3	4092.3	4095.9	4131.3	4164.9	4169.5	4135.9	4111.4	4025.0	3815.2	3515.4
10°	3773.4	3793.4	3822.4	3863.3	3944.2	4011.4	4044.1	4040.5	3990.6	3787.1	3421.0
12.5°	3481.8	3492.7	3537.3	3607.2	3706.2	3820.6	3907.9	3925.1	3926.0	3753.5	3341.9
15°	3231.1	3226.6	3261.1	3341.9	3480.9	3624.4	3780.7	3808.0	3851.6	3720.7	3268.4
17.5°	3016.7	3040.4	3045.8	3134.8	3262.9	3449.1	3648.1	3696.2	3783.4	3692.5	3207.5
20°	2884.1	2896.9	2908.6	2958.6	3074.0	3270.2	3523.7	3589.9	3719.8	3667.2	3139.4
22.5°	2845.0	2853.3	2843.2	2858.7	2940.4	3114.9	3388.3	3476.4	3659.0	3643.5	3083.9
25°	2875.0	2883.2	2859.6	2841.4	2869.6	2988.6	3257.4	3364.6	3609.9	3639.0	3042.2
27.5°	2947.7	2963.1	2930.5	2897.7	2881.4	2920.4	3154.8	3279.3	3576.3	3660.8	3023.1
30°	3061.2	3070.3	3045.8	3005.9	2968.6	2929.5	3101.2	3220.2	3567.2	3711.7	3021.3
32.5°	3184.8	3203.9	3190.3	3163.9	3115.8	3023.1	3116.7	3222.0	3589.0	3785.3	3044.0
35°	3337.4	3359.2	3371.9	3366.4	3304.7	3189.3	3214.8	3303.8	3647.1	3920.6	3105.8
37.5°	3487.2	3506.4	3578.2	3602.7	3548.2	3439.2	3405.5	3464.5	3775.2	4097.8	3217.5
40°	3659.0	3684.4	3785.3	3878.8	3852.4	3738.0	3676.3	3725.3	3971.5	4364.8	3429.1
42.5°	3823.4	3868.8	4022.3	4187.6	4212.1	4084.1	4043.2	4059.5	4262.1	4749.1	3724.3
45°	4056.8	4099.6	4297.6	4521.9	4637.3	4537.4	4495.6	4492.9	4660.9	5289.5	4203.1
47.5°	4393.9	4432.0	4665.4	4887.1	5092.4	5106.0	5027.0	5054.3	5162.3	5921.8	4789.9
50°	4807.2	4897.1	5050.6	5281.3	5555.7	5777.3	5801.9	5765.5	5858.2	6653.9	5494.8
52.5°	5407.6	5442.1	5582.9	5772.7	6094.3	6470.4	6762.0	6712.0	6683.0	7351.5	6207.0
55°	5855.4	5901.8	6120.7	6381.4	6852.8	7348.8	7981.0	7998.3	7631.4	8021.9	6903.7
57.5°	5720.0	5790.9	6122.5	6646.7	7683.1	8589.7	9060.2	9072.0	8508.9	8673.2	7690.4
60°	5025.1	5058.8	5533.9	6233.3	7754.0	9934.1	10590.9	10495.5	9401.8	9401.8	8385.3
62.5°	3563.6	3616.3	4001.4	5030.6	7002.8	10401.0	12423.9	12226.9	10631.7	10098.5	8799.5
65°	2277.3	2226.5	2481.7	3175.7	5216.8	9711.5	14020.0	14031.8	11789.0	10377.3	8573.3
67°	1649.6	1629.7	1703.2	2171.0	3537.3	8163.6	14053.6	14675.8	12453.9	10201.2	7850.3
67.5°	1508.8	1524.3	1577.8	1958.4	3213.8	7428.8	13901.0	14637.7	12603.8	10094.8	7588.6
70°	1143.6	1117.3	1175.4	1385.3	1926.6	4686.3	11958.0	13425.0	12417.6	9040.2	6063.5
72.5°	841.2	838.4	919.3	1132.8	1483.4	2496.2	8976.6	10764.4	10144.8	6883.7	3817.9
75°	567.8	593.2	722.2	946.6	1344.4	1618.8	6119.8	7809.4	7042.7	3908.7	1560.6
77.5°	323.4	325.2	465.1	760.3	1207.2	1302.6	3626.2	4975.2	3728.0	1299.9	463.3
80°	139.9	153.5	230.8	552.3	1001.1	1153.7	2079.3	2734.2	1507.9	275.2	149.9
82.5°	51.8	60.8	101.7	339.7	730.3	950.2	1256.3	1305.3	511.5	97.2	93.6
85°	0.0	1.8	37.3	158.9	380.6	424.2	839.4	773.9	226.2	46.4	60.8
87.5°	0.0	0.0	0.0	16.4	50.0	158.1	260.7	290.6	54.5	16.4	14.6
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°	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5	3603.5
2.5°	3576.3	3517.2	3369.2	3221.1	3111.3	3019.5	2881.4	2806.0	2766.0	2707.0	2710.6
5°	3486.4	3366.4	3105.8	2835.9	2618.0	2405.4	2151.1	2048.4	1962.1	1913.0	1880.4
7.5°	3352.8	3175.7	2789.7	2430.0	2094.8	1723.2	1444.3	1258.1	1132.8	1086.4	1041.9
10°	3206.6	2971.3	2469.0	1970.3	1505.2	1121.9	885.7	714.9	654.0	597.7	603.1
12.5°	3071.2	2785.1	2174.7	1555.1	1054.6	713.1	555.9	486.0	466.0	459.6	459.6
15°	2960.4	2607.1	1858.5	1169.1	723.1	512.3	445.1	426.0	418.7	416.9	416.9
17.5°	2842.4	2438.1	1573.3	863.9	525.9	428.8	406.1	393.3	390.6	388.8	388.8
20°	2737.0	2268.2	1302.6	643.2	425.1	386.1	371.5	363.4	360.6	358.8	359.7
22.5°	2637.1	2117.5	1048.3	486.0	374.3	351.6	337.0	328.9	323.4	318.8	319.8
25°	2548.0	1972.1	843.0	397.8	337.0	317.0	302.5	290.6	278.9	273.4	272.5
27.5°	2485.3	1844.9	656.8	340.6	303.4	281.6	263.4	248.9	233.5	225.3	223.5
30°	2433.6	1715.9	519.6	300.7	269.8	248.9	226.2	205.3	188.9	180.8	177.1
32.5°	2400.0	1593.3	409.7	267.9	241.6	216.2	190.7	169.8	151.7	143.5	141.7
35°	2394.5	1490.7	335.2	240.7	216.2	188.9	162.6	139.9	124.4	116.3	114.5
37.5°	2433.6	1411.6	280.7	218.9	195.3	165.3	136.2	115.3	101.7	95.4	94.5
40°	2538.0	1361.6	243.4	200.8	176.3	143.5	116.3	98.1	84.5	78.1	78.1
42.5°	2737.0	1363.5	218.9	183.5	157.1	122.6	99.0	81.7	69.9	64.5	62.6
45°	3047.6	1425.2	198.0	166.2	139.0	106.3	84.5	67.2	55.4	50.9	50.9
47.5°	3463.7	1547.9	179.9	149.0	122.6	90.8	71.8	54.5	44.5	39.9	39.9
50°	4007.8	1745.0	164.4	134.4	109.0	78.1	58.1	44.5	34.5	30.9	30.0
52.5°	4576.4	1988.4	146.3	121.8	93.6	66.3	47.2	34.5	26.3	23.6	22.7
55°	5204.1	2226.5	129.0	109.0	76.3	55.4	37.3	27.2	19.1	16.4	16.4
57.5°	5837.3	2459.9	108.1	90.8	60.0	40.9	29.0	20.0	12.7	10.0	10.0
60°	6373.2	2535.3	91.8	73.6	45.4	29.0	20.9	12.7	7.3	4.5	4.5
62.5°	6446.8	2281.0	77.2	56.3	32.7	20.0	10.9	7.3	2.7	1.8	1.8
65°	6047.1	1853.1	64.5	42.7	21.8	10.0	4.5	2.7	0.9	0.0	0.0
67°	5418.5	1502.5	52.7	31.8	15.4	6.3	2.7	0.9	0.0	0.0	0.0
67.5°	5257.7	1432.5	50.9	30.0	13.6	5.5	1.8	0.9	0.0	0.0	0.0
70°	4125.9	1072.8	36.3	18.2	8.1	3.6	0.0	0.0	0.0	0.0	0.0
72.5°	2564.4	606.8	26.3	10.9	5.5	1.8	0.0	0.0	0.0	0.0	0.0
75°	969.3	212.6	18.2	7.3	3.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	301.6	80.9	10.9	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	101.7	30.9	7.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	62.6	12.7	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.1	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0	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)