

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: P650795

Luminaire Tested: **GALN-SA3C-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650795
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-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 14600.6 lumens
Efficiency: N/A
Efficacy: 91.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

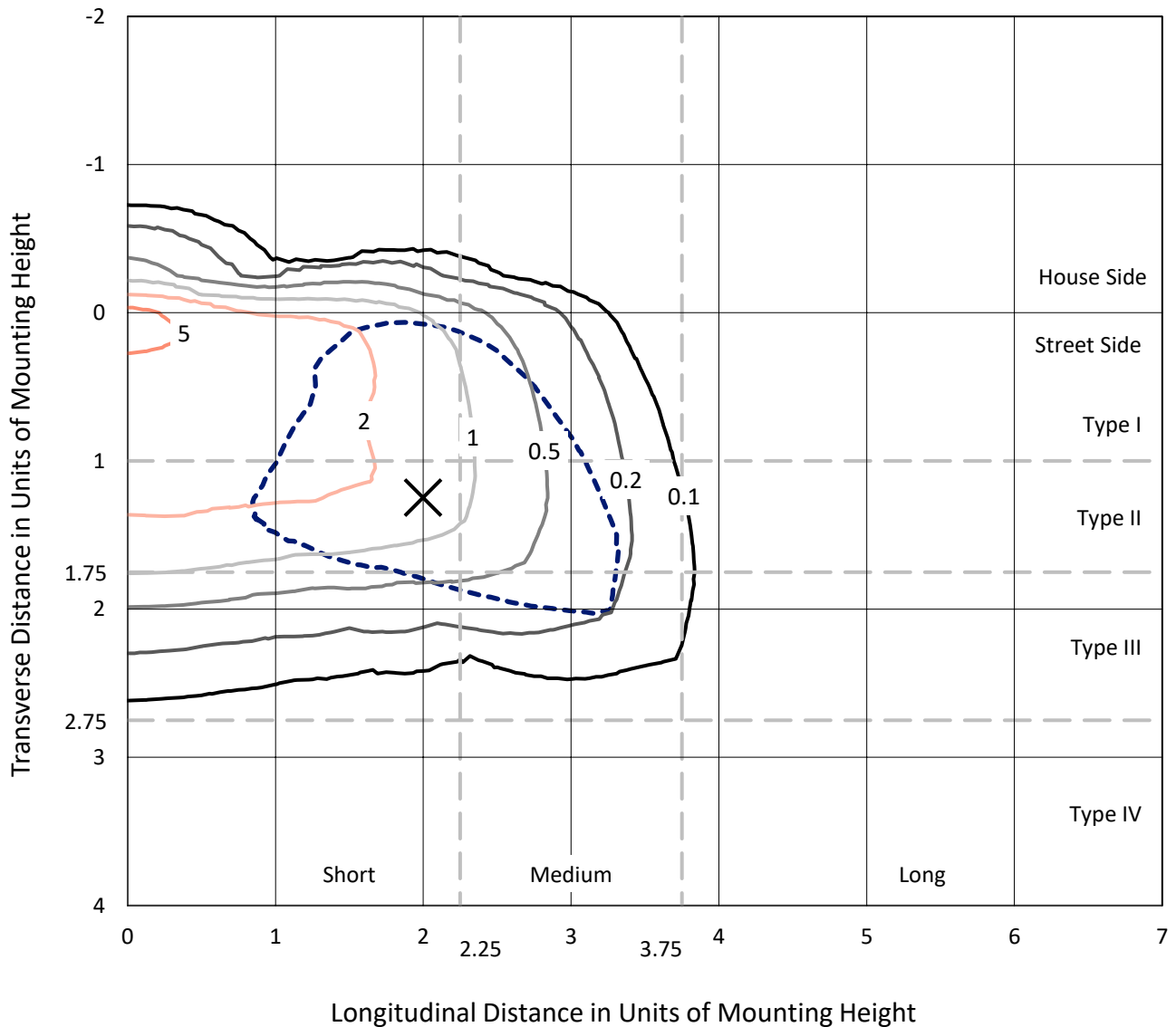
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

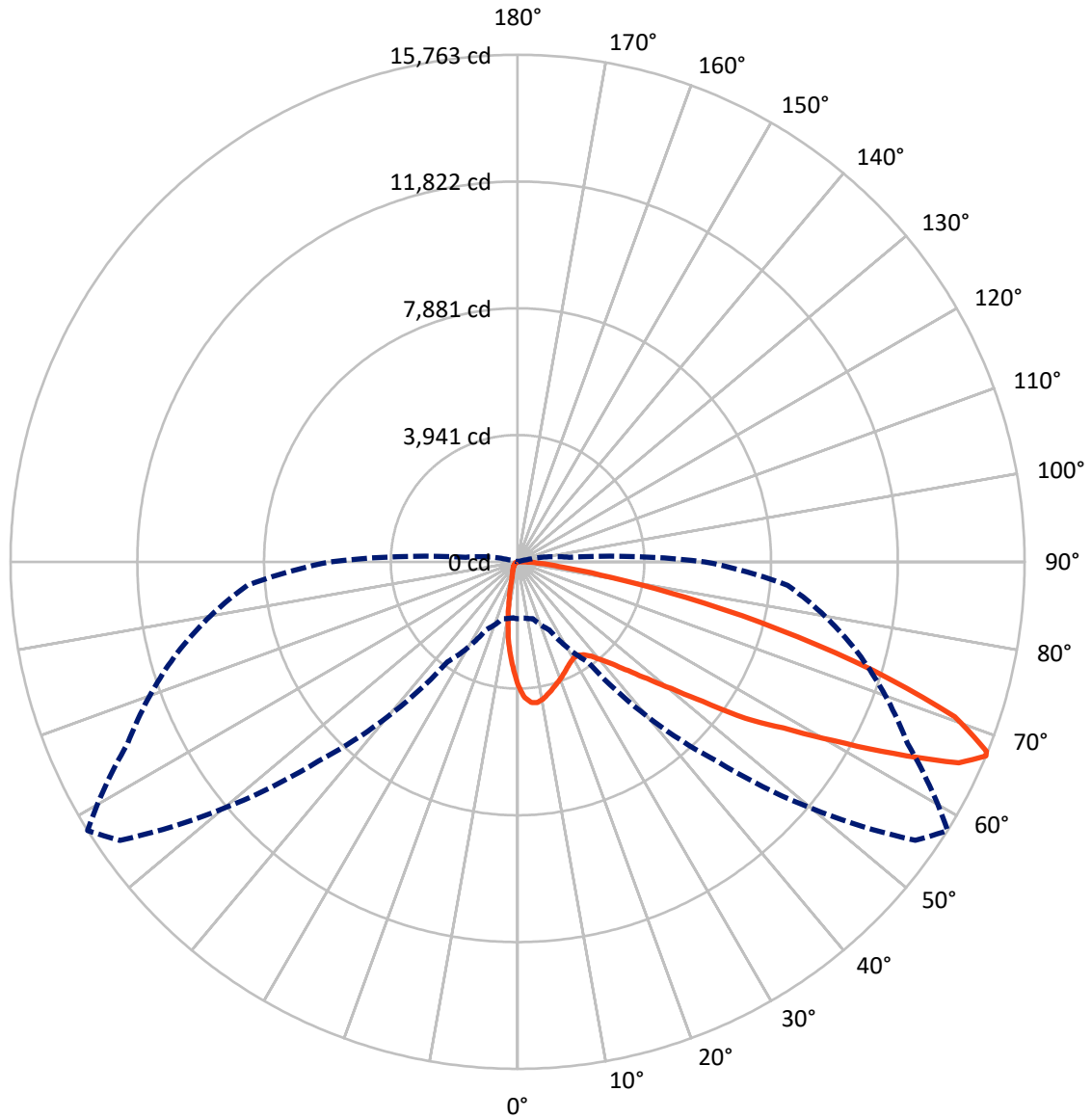
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 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	1053.7	0.0	1053.7
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13546.9	0.0	13546.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	14600.6	0.0	14600.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	2.2
10°-20°	678.3	4.6
20°-30°	919.2	6.3
30°-40°	1274.9	8.7
40°-50°	2033.3	13.9
50°-60°	3514.7	24.1
60°-70°	4014.9	27.5
70°-80°	1673.8	11.5
80°-90°	177.5	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°	14600.6	100.0
0°-180°	14600.6	100.0

Coefficient of Utilization



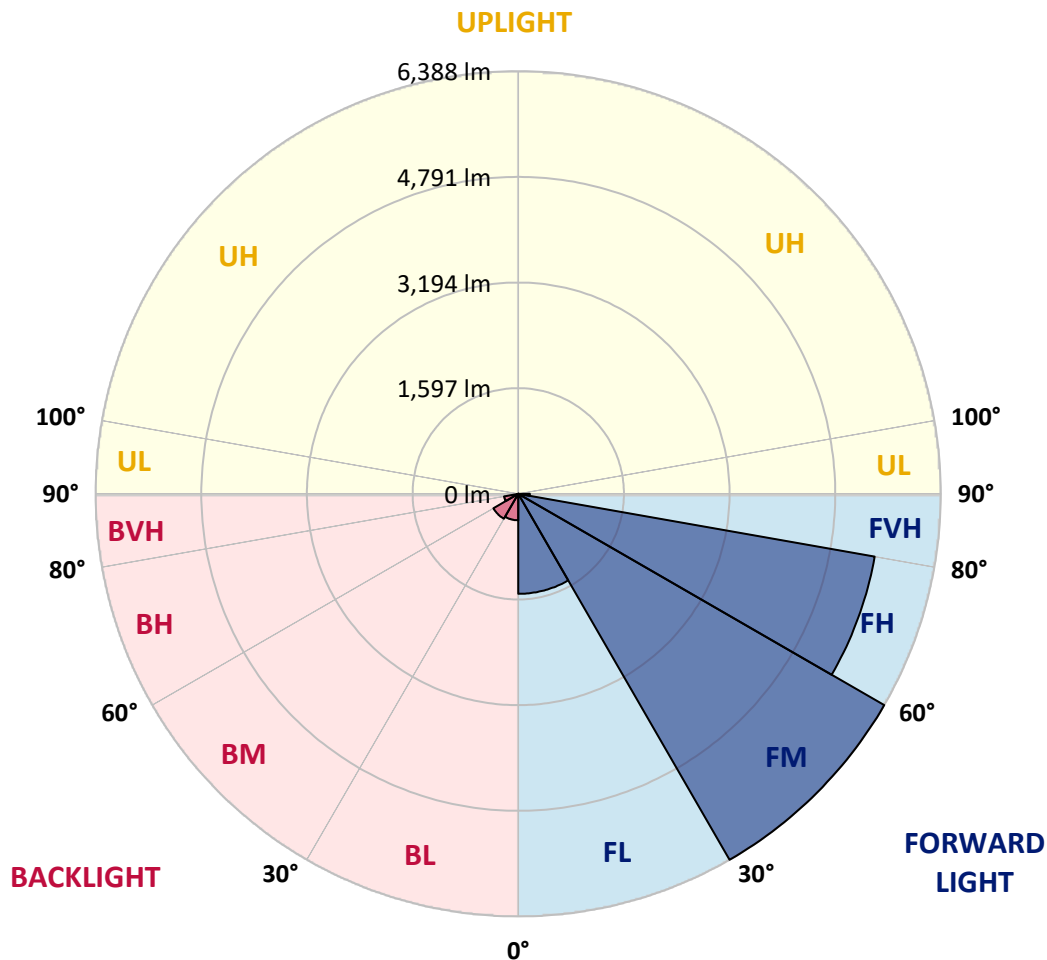
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.5	10.4			
FM (30°-60°)	6388.4	43.8			
FH (60°-80°)	5470.9	37.5			G3/7500
FVH (80°-90°)	176.2	1.2			G2/225
BL (0°-30°)	400.1	2.7	B1/500		
BM (30°-60°)	434.4	3.0	B1/1000		
BH (60°-80°)	217.8	1.5	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: 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°	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5
2.5°	4491.9	4498.8	4473.4	4452.9	4400.3	4343.7	4268.6	4228.5	4160.3	4042.2	3911.5
5°	4597.3	4606.2	4602.2	4597.3	4576.9	4522.2	4426.6	4391.5	4291.0	4098.8	3862.7
7.5°	4363.2	4395.4	4399.3	4437.4	4473.4	4478.3	4442.2	4415.9	4323.2	4097.9	3775.8
10°	4052.9	4074.4	4105.6	4149.5	4236.4	4308.5	4343.7	4339.8	4286.2	4067.6	3674.4
12.5°	3739.8	3751.4	3799.3	3874.4	3980.7	4103.7	4197.3	4215.8	4216.9	4031.5	3589.5
15°	3470.5	3465.6	3502.7	3589.5	3738.7	3892.9	4060.8	4090.0	4136.9	3996.3	3510.5
17.5°	3240.2	3265.6	3271.4	3367.0	3504.6	3704.6	3918.3	3970.0	4063.6	3966.1	3445.1
20°	3097.7	3111.4	3124.1	3177.7	3301.7	3512.4	3784.7	3855.8	3995.3	3938.8	3371.9
22.5°	3055.8	3064.6	3053.8	3070.4	3158.2	3345.6	3639.3	3733.9	3930.0	3913.4	3312.4
25°	3088.0	3096.8	3071.4	3051.9	3082.2	3209.9	3498.7	3613.9	3877.3	3908.5	3267.5
27.5°	3166.0	3182.6	3147.5	3112.4	3094.8	3136.8	3388.5	3522.2	3841.2	3931.9	3247.0
30°	3288.0	3297.7	3271.4	3228.5	3188.5	3146.5	3330.9	3458.8	3831.4	3986.6	3245.1
32.5°	3420.7	3441.2	3426.6	3398.2	3346.6	3247.0	3347.5	3460.7	3854.9	4065.6	3269.5
35°	3584.6	3608.1	3621.7	3615.8	3549.5	3425.6	3452.9	3548.5	3917.3	4211.0	3335.8
37.5°	3745.6	3766.1	3843.2	3869.5	3811.0	3693.9	3657.8	3721.2	4054.9	4401.3	3455.8
40°	3930.0	3957.3	4065.6	4166.1	4137.8	4014.8	3948.6	4001.2	4265.6	4688.1	3683.2
42.5°	4106.6	4155.4	4320.3	4497.8	4524.2	4386.7	4342.7	4360.2	4577.8	5100.8	4000.2
45°	4357.3	4403.2	4615.9	4856.9	4980.8	4873.5	4828.6	4825.7	5006.1	5681.3	4514.4
47.5°	4719.4	4760.3	5011.0	5249.1	5469.6	5484.2	5399.4	5428.7	5544.7	6360.4	5144.7
50°	5163.2	5259.9	5424.7	5672.5	5967.2	6205.2	6231.6	6192.6	6292.1	7146.8	5901.8
52.5°	5808.2	5845.2	5996.5	6200.4	6545.8	6949.7	7262.9	7209.2	7178.0	7896.1	6666.8
55°	6289.2	6339.0	6574.1	6854.1	7360.4	7893.2	8572.2	8590.8	8196.6	8616.1	7415.1
57.5°	6143.8	6219.9	6576.0	7139.0	8252.2	9225.9	9731.4	9744.0	9139.1	9315.7	8260.0
60°	5397.4	5433.5	5943.8	6695.0	8328.3	10669.9	11375.4	11272.9	10098.2	10098.2	9006.4
62.5°	3827.6	3884.2	4297.8	5403.3	7521.5	11171.4	13344.2	13132.6	11419.3	10846.5	9451.3
65°	2446.0	2391.4	2665.5	3410.9	5603.2	10430.9	15058.5	15071.2	12662.3	11146.0	9208.4
67°	1771.8	1750.4	1829.3	2331.8	3799.3	8768.4	15094.6	15762.9	13376.4	10956.8	8431.8
67.5°	1620.6	1637.2	1694.7	2103.5	3451.9	7979.1	14930.7	15722.0	13537.4	10842.6	8150.7
70°	1228.4	1200.1	1262.5	1487.9	2069.4	5033.5	12843.8	14419.4	13337.4	9709.8	6512.6
72.5°	903.5	900.5	987.4	1216.7	1593.3	2681.1	9641.6	11561.7	10896.2	7393.7	4100.7
75°	609.8	637.1	775.7	1016.7	1444.0	1738.7	6573.1	8387.9	7564.4	4198.3	1676.2
77.5°	347.3	349.3	499.6	816.6	1296.7	1399.1	3894.8	5343.7	4004.2	1396.1	497.6
80°	150.3	164.9	247.8	593.2	1075.2	1239.1	2233.3	2936.8	1619.6	295.6	161.0
82.5°	55.6	65.3	109.2	364.9	784.4	1020.6	1349.4	1402.0	549.3	104.4	100.5
85°	0.0	1.9	40.0	170.7	408.8	455.7	901.6	831.2	243.0	49.8	65.3
87.5°	0.0	0.0	0.0	17.6	53.7	169.8	280.1	312.2	58.5	17.6	15.6
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°	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5	3870.5
2.5°	3841.2	3777.8	3618.7	3459.7	3341.7	3243.1	3094.8	3013.8	2970.9	2907.5	2911.4
5°	3744.6	3615.8	3335.8	3046.0	2811.9	2583.6	2310.4	2200.1	2107.5	2054.7	2019.7
7.5°	3601.2	3410.9	2996.3	2610.0	2249.9	1850.9	1551.3	1351.3	1216.7	1166.9	1119.1
10°	3444.1	3191.4	2651.8	2116.2	1616.7	1205.0	951.3	767.8	702.5	642.0	647.8
12.5°	3298.7	2991.4	2335.8	1670.3	1132.7	765.9	597.1	522.0	500.5	493.7	493.7
15°	3179.7	2800.2	1996.2	1255.7	776.7	550.3	478.1	457.6	449.8	447.8	447.8
17.5°	3052.9	2618.7	1689.8	927.9	564.9	460.5	436.1	422.4	419.6	417.6	417.6
20°	2939.7	2436.2	1399.1	690.8	456.6	414.7	399.1	390.3	387.4	385.4	386.4
22.5°	2832.4	2274.3	1125.9	522.0	402.0	377.6	362.0	353.2	347.3	342.5	343.5
25°	2736.8	2118.1	905.4	427.3	362.0	340.5	324.9	312.2	299.6	293.7	292.7
27.5°	2669.4	1981.6	705.4	365.8	325.9	302.4	282.9	267.4	250.8	242.0	240.0
30°	2613.8	1843.1	558.1	322.9	289.8	267.4	243.0	220.5	202.9	194.2	190.2
32.5°	2577.7	1711.4	440.0	287.8	259.5	232.2	204.9	182.4	162.9	154.2	152.2
35°	2571.9	1601.1	360.0	258.5	232.2	202.9	174.7	150.3	133.6	124.9	123.0
37.5°	2613.8	1516.2	301.5	235.1	209.7	177.5	146.3	123.9	109.2	102.4	101.5
40°	2726.0	1462.5	261.5	215.6	189.3	154.2	124.9	105.4	90.7	83.9	83.9
42.5°	2939.7	1464.5	235.1	197.0	168.8	131.7	106.4	87.8	75.1	69.3	67.3
45°	3273.3	1530.8	212.7	178.5	149.3	114.1	90.7	72.2	59.5	54.7	54.7
47.5°	3720.2	1662.6	193.2	160.0	131.7	97.6	77.1	58.5	47.8	42.9	42.9
50°	4304.7	1874.3	176.6	144.4	117.1	83.9	62.4	47.8	37.1	33.1	32.2
52.5°	4915.4	2135.7	157.1	130.8	100.5	71.2	50.7	37.1	28.3	25.4	24.4
55°	5589.6	2391.4	138.5	117.1	82.0	59.5	40.0	29.3	20.5	17.6	17.6
57.5°	6269.7	2642.1	116.1	97.6	64.4	43.9	31.2	21.4	13.6	10.8	10.8
60°	6845.3	2723.1	98.6	79.1	48.8	31.2	22.5	13.6	7.8	4.9	4.9
62.5°	6924.4	2449.9	82.9	60.5	35.2	21.4	11.7	7.8	2.9	1.9	1.9
65°	6495.0	1990.4	69.3	45.8	23.4	10.8	4.9	2.9	1.0	0.0	0.0
67°	5819.9	1613.8	56.6	34.1	16.6	6.8	2.9	1.0	0.0	0.0	0.0
67.5°	5647.1	1538.6	54.7	32.2	14.6	5.9	1.9	1.0	0.0	0.0	0.0
70°	4431.5	1152.3	39.0	19.5	8.7	3.9	0.0	0.0	0.0	0.0	0.0
72.5°	2754.4	651.8	28.3	11.7	5.9	1.9	0.0	0.0	0.0	0.0	0.0
75°	1041.1	228.3	19.5	7.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	324.0	86.9	11.7	5.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	109.2	33.1	7.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	67.3	13.6	4.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	42.0	5.9	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	1.9	1.0	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)