

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: P458840

Luminaire Tested: **GALN-SA3D-735-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458840
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-SA3D-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA 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: 17796 lumens
Efficiency: N/A
Efficacy: 96.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

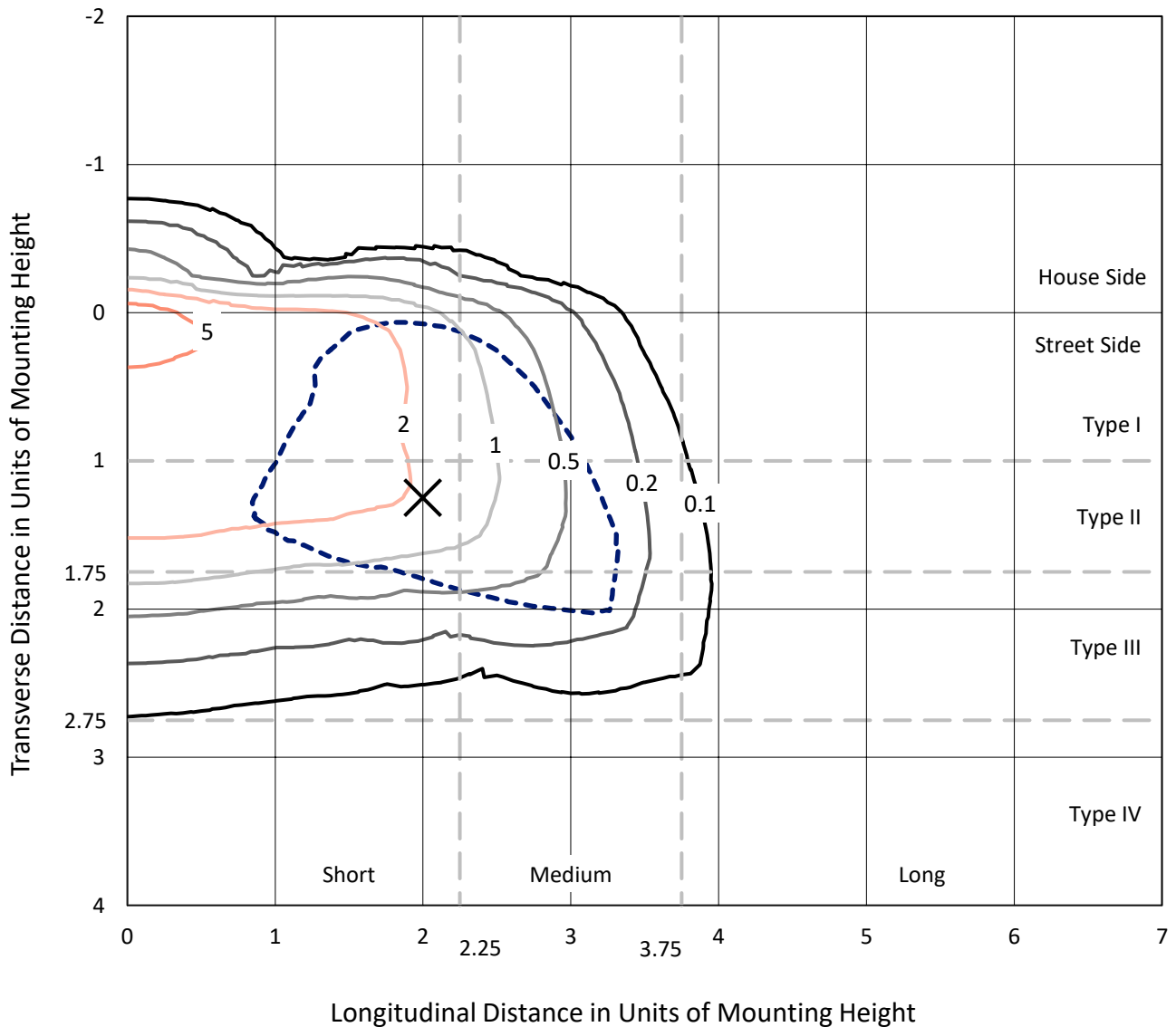
Input Watts (W): 184
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

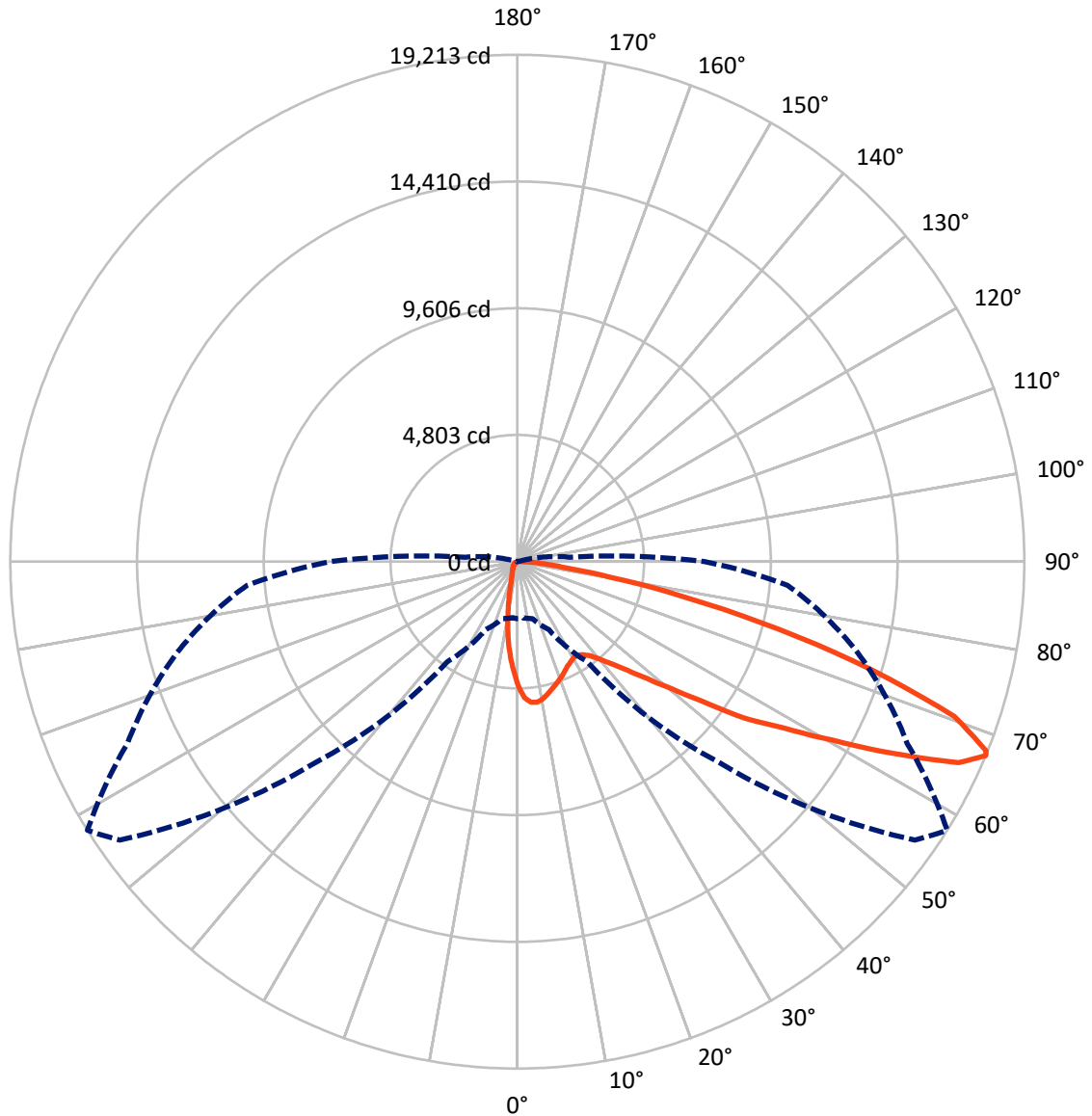
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	1284.3	0.0	1284.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16511.7	0.0	16511.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	17796.0	0.0	17796.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.8	2.2
10°-20°	826.8	4.6
20°-30°	1120.4	6.3
30°-40°	1553.9	8.7
40°-50°	2478.3	13.9
50°-60°	4283.9	24.1
60°-70°	4893.5	27.5
70°-80°	2040.2	11.5
80°-90°	216.3	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°	17796.0	100.0
0°-180°	17796.0	100.0

Coefficient of Utilization



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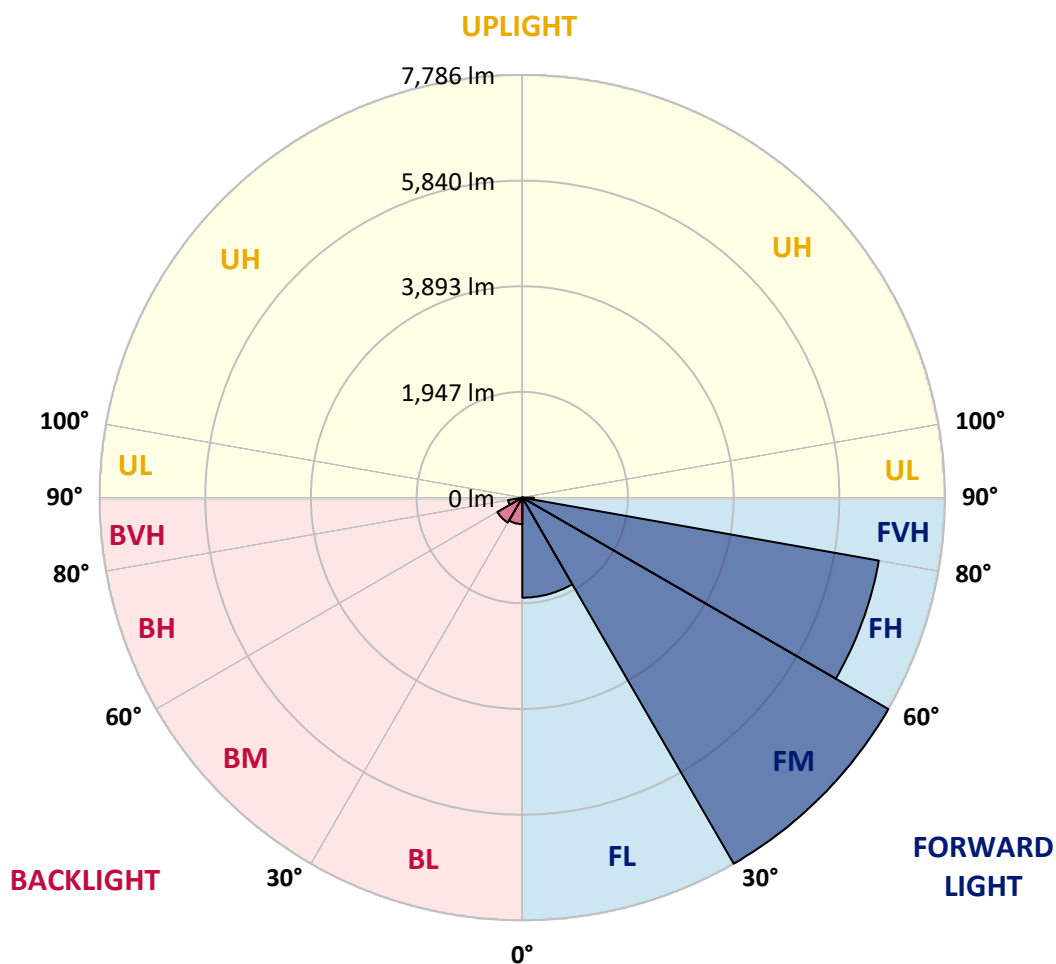
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1842.3	10.4			
FM	(30°-60°)	7786.5	43.8			
FH	(60°-80°)	6668.2	37.5			G3/7500
FVH	(80°-90°)	214.7	1.2			G2/225
BL	(0°-30°)	487.7	2.7	B1/500		
BM	(30°-60°)	529.5	3.0	B1/1000		
BH	(60°-80°)	265.5	1.5	B1/500		G1/500
BVH	(80°-90°)	1.6	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°	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6
2.5°	5475.1	5483.4	5452.5	5427.5	5363.3	5294.3	5202.7	5154.0	5070.7	4926.9	4767.5
5°	5603.5	5614.2	5609.5	5603.5	5578.5	5511.9	5395.4	5352.6	5230.1	4995.8	4708.0
7.5°	5318.1	5357.3	5362.1	5408.5	5452.5	5458.4	5414.4	5382.3	5269.3	4994.6	4602.2
10°	4939.9	4966.1	5004.2	5057.7	5163.5	5251.5	5294.3	5289.6	5224.2	4957.8	4478.5
12.5°	4558.2	4572.5	4630.7	4722.3	4851.9	5001.8	5115.9	5138.5	5139.7	4913.8	4375.1
15°	4230.0	4224.0	4269.2	4375.1	4557.0	4744.9	4949.5	4985.1	5042.2	4871.0	4278.7
17.5°	3949.3	3980.3	3987.4	4103.9	4271.6	4515.4	4775.8	4838.9	4953.0	4834.1	4199.1
20°	3775.7	3792.4	3807.8	3873.2	4024.3	4281.1	4612.9	4699.7	4869.8	4800.8	4109.9
22.5°	3724.6	3735.3	3722.2	3742.4	3849.4	4077.8	4435.7	4551.1	4790.1	4769.9	4037.3
25°	3763.8	3774.5	3743.6	3719.8	3756.7	3912.5	4264.5	4404.8	4725.9	4763.9	3982.6
27.5°	3859.0	3879.2	3836.4	3793.5	3772.1	3823.3	4130.1	4293.0	4681.9	4792.5	3957.7
30°	4007.6	4019.5	3987.4	3935.1	3886.3	3835.2	4059.9	4215.7	4670.0	4859.1	3955.3
32.5°	4169.3	4194.3	4176.5	4142.0	4079.0	3957.7	4080.1	4218.1	4698.5	4955.4	3985.0
35°	4369.1	4397.7	4414.3	4407.2	4326.3	4175.3	4208.6	4325.1	4774.6	5132.6	4065.9
37.5°	4565.3	4590.3	4684.3	4716.4	4645.0	4502.3	4458.3	4535.6	4942.3	5364.5	4212.1
40°	4790.1	4823.4	4955.4	5077.9	5043.4	4893.6	4812.7	4876.9	5199.2	5714.1	4489.2
42.5°	5005.3	5064.8	5265.8	5482.2	5514.3	5346.6	5293.1	5314.5	5579.7	6217.1	4875.7
45°	5311.0	5366.9	5626.1	5919.8	6070.9	5940.1	5885.4	5881.8	6101.8	6924.7	5502.4
47.5°	5752.2	5802.1	6107.7	6397.9	6666.7	6684.5	6581.0	6616.7	6758.2	7752.4	6270.7
50°	6293.2	6411.0	6612.0	6914.0	7273.1	7563.3	7595.4	7547.9	7669.2	8710.9	7193.5
52.5°	7079.3	7124.5	7308.8	7557.4	7978.3	8470.7	8852.4	8787.0	8748.9	9624.2	8125.8
55°	7665.6	7726.2	8012.8	8354.1	8971.3	9620.6	10448.3	10470.9	9990.5	10501.8	9037.9
57.5°	7488.4	7581.1	8015.2	8701.4	10058.3	11245.1	11861.1	11876.5	11139.2	11354.5	10067.8
60°	6578.7	6622.7	7244.6	8160.3	10151.0	13005.1	13864.9	13740.0	12308.2	12308.2	10977.5
62.5°	4665.2	4734.2	5238.4	6585.8	9167.5	13616.3	16264.7	16006.6	13918.4	13220.3	11519.8
65°	2981.3	2914.7	3248.9	4157.4	6829.6	12713.7	18354.1	18369.6	15433.4	13585.4	11223.7
67°	2159.6	2133.4	2229.7	2842.2	4630.7	10687.3	18398.1	19212.7	16303.9	13354.7	10277.1
67.5°	1975.3	1995.5	2065.6	2563.9	4207.4	9725.3	18198.3	19162.8	16500.1	13215.6	9934.6
70°	1497.2	1462.7	1538.8	1813.5	2522.3	6135.1	15654.6	17575.2	16256.4	11834.9	7937.9
72.5°	1101.2	1097.6	1203.5	1482.9	1942.0	3267.9	11751.7	14092.0	13281.0	9011.8	4998.2
75°	743.2	776.5	945.4	1239.1	1760.0	2119.2	8011.6	10223.6	9219.9	5117.1	2043.0
77.5°	423.4	425.7	608.9	995.4	1580.4	1705.3	4747.3	6513.2	4880.5	1701.7	606.5
80°	183.1	201.0	302.1	723.0	1310.5	1510.3	2722.1	3579.5	1974.1	360.3	196.2
82.5°	67.8	79.7	133.2	444.8	956.1	1243.9	1644.7	1708.9	669.5	127.2	122.5
85°	0.0	2.4	48.8	208.1	498.3	555.4	1098.8	1013.2	296.1	60.6	79.7
87.5°	0.0	0.0	0.0	21.4	65.4	206.9	341.3	380.5	71.4	21.4	19.0
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°	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6	4717.6
2.5°	4681.9	4604.6	4410.7	4216.9	4073.0	3952.9	3772.1	3673.4	3621.1	3543.8	3548.6
5°	4564.1	4407.2	4065.9	3712.7	3427.3	3149.0	2816.0	2681.6	2568.7	2504.5	2461.6
7.5°	4389.3	4157.4	3652.0	3181.1	2742.3	2255.9	1890.8	1647.0	1482.9	1422.3	1364.0
10°	4197.9	3889.9	3232.2	2579.4	1970.5	1468.7	1159.5	935.9	856.2	782.5	789.6
12.5°	4020.7	3646.1	2846.9	2035.9	1380.7	933.5	727.8	636.2	610.1	601.7	601.7
15°	3875.6	3413.0	2433.1	1530.5	946.6	670.7	582.7	557.7	548.2	545.8	545.8
17.5°	3721.0	3191.8	2059.7	1130.9	688.5	561.3	531.6	514.9	511.4	509.0	509.0
20°	3583.1	2969.4	1705.3	842.0	556.5	505.4	486.4	475.7	472.1	469.7	470.9
22.5°	3452.2	2772.0	1372.3	636.2	490.0	460.2	441.2	430.5	423.4	417.4	418.6
25°	3335.7	2581.8	1103.6	520.9	441.2	415.0	396.0	380.5	365.1	357.9	356.8
27.5°	3253.7	2415.3	859.8	445.9	397.2	368.7	344.9	325.8	305.6	294.9	292.5
30°	3185.9	2246.4	680.2	393.6	353.2	325.8	296.1	268.8	247.4	236.7	231.9
32.5°	3141.9	2085.9	536.3	350.8	316.3	283.0	249.7	222.4	198.6	187.9	185.5
35°	3134.7	1951.5	438.8	315.1	283.0	247.4	212.9	183.1	162.9	152.2	149.8
37.5°	3185.9	1848.0	367.5	286.6	255.7	216.4	178.4	151.0	133.2	124.9	123.7
40°	3322.6	1782.6	318.7	262.8	230.7	187.9	152.2	128.4	110.6	102.3	102.3
42.5°	3583.1	1785.0	286.6	240.2	205.7	160.5	129.6	107.0	91.6	84.4	82.1
45°	3989.8	1865.9	259.2	217.6	181.9	139.1	110.6	88.0	72.5	66.6	66.6
47.5°	4534.4	2026.4	235.5	195.0	160.5	118.9	93.9	71.4	58.3	52.3	52.3
50°	5246.8	2284.5	215.2	176.0	142.7	102.3	76.1	58.3	45.2	40.4	39.2
52.5°	5991.2	2603.2	191.5	159.4	122.5	86.8	61.8	45.2	34.5	30.9	29.7
55°	6812.9	2914.7	168.9	142.7	99.9	72.5	48.8	35.7	25.0	21.4	21.4
57.5°	7641.8	3220.4	141.5	118.9	78.5	53.5	38.1	26.2	16.6	13.1	13.1
60°	8343.4	3319.1	120.1	96.3	59.5	38.1	27.4	16.6	9.5	5.9	5.9
62.5°	8439.8	2986.1	101.1	73.7	42.8	26.2	14.3	9.5	3.6	2.4	2.4
65°	7916.5	2426.0	84.4	55.9	28.5	13.1	5.9	3.6	1.2	0.0	0.0
67°	7093.6	1966.9	69.0	41.6	20.2	8.3	3.6	1.2	0.0	0.0	0.0
67.5°	6883.1	1875.4	66.6	39.2	17.8	7.1	2.4	1.2	0.0	0.0	0.0
70°	5401.3	1404.4	47.6	23.8	10.7	4.8	0.0	0.0	0.0	0.0	0.0
72.5°	3357.1	794.4	34.5	14.3	7.1	2.4	0.0	0.0	0.0	0.0	0.0
75°	1268.9	278.3	23.8	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	394.8	105.8	14.3	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	133.2	40.4	9.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.1	16.6	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.1	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	2.4	1.2	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)