

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: P459487

Luminaire Tested: **GALN-SA9B-735-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459487
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35923 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G5

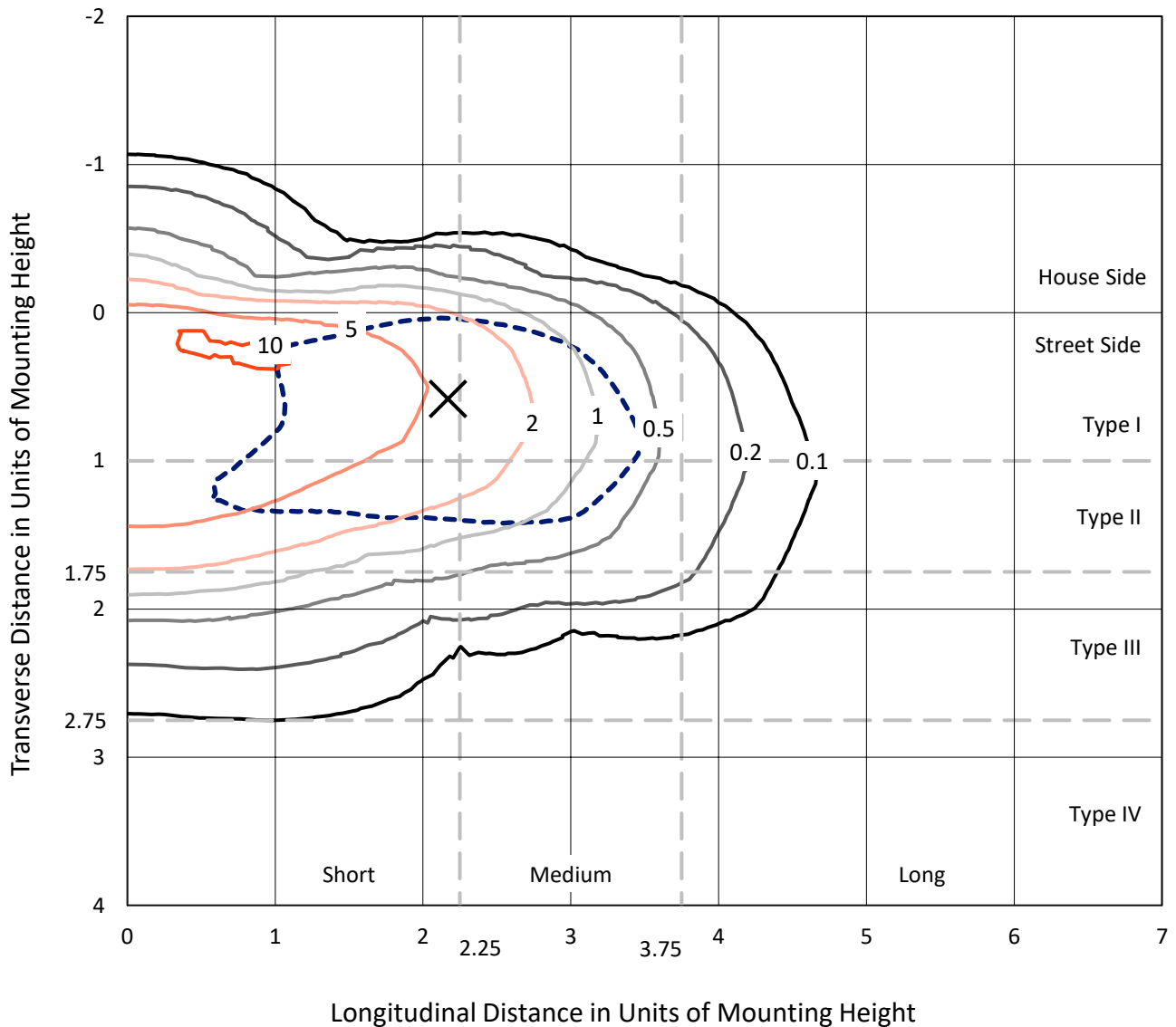
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

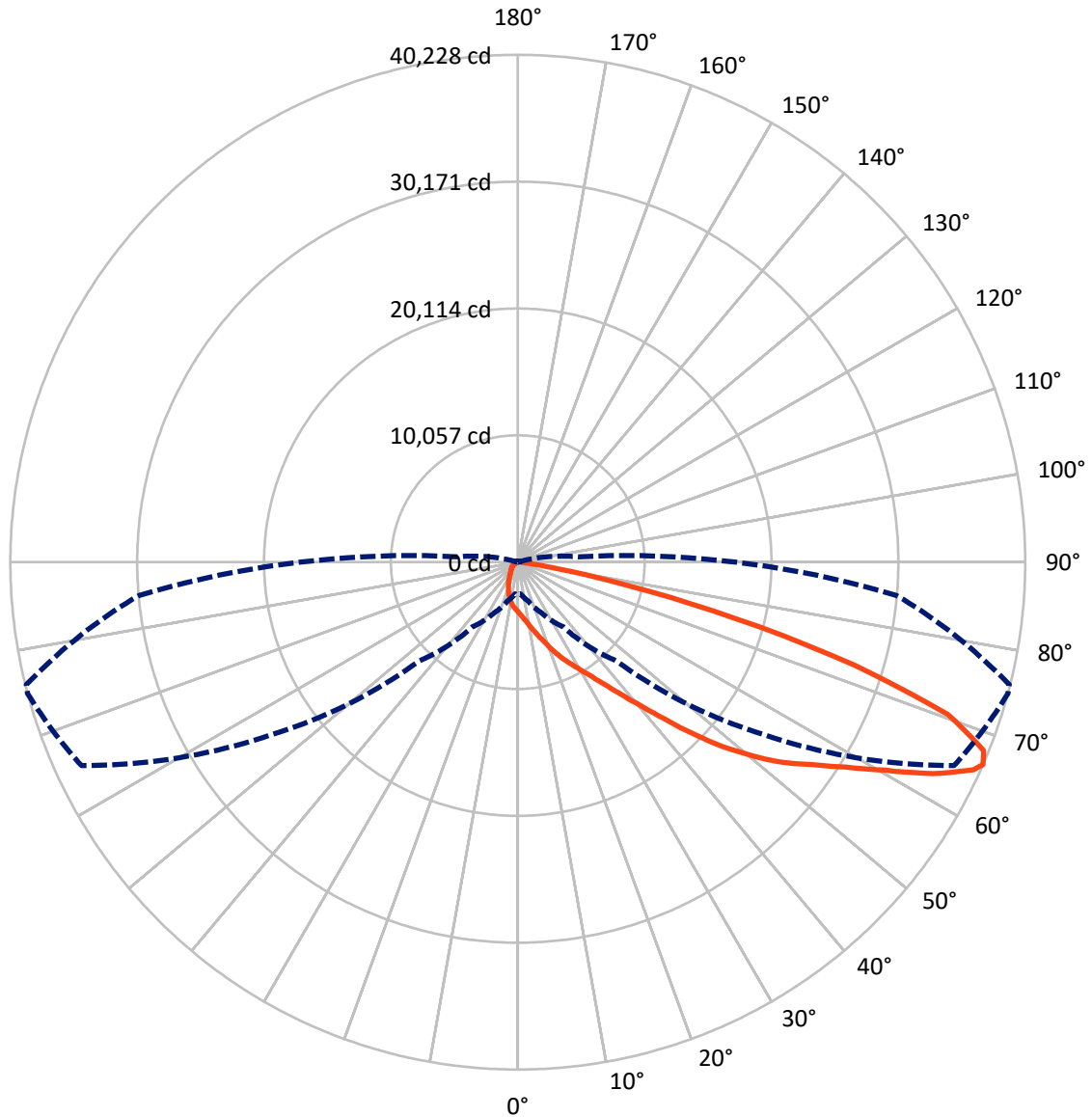
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2217.7	0.0	2217.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	33705.3	0.0	33705.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	35923.0	0.0	35923.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.9	1.1
10°-20°	1115.2	3.1
20°-30°	1925.6	5.4
30°-40°	3473.5	9.7
40°-50°	6274.9	17.5
50°-60°	9782.6	27.2
60°-70°	9293.1	25.9
70°-80°	3482.8	9.7
80°-90°	196.5	0.5
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°	35923.0	100.0
0°-180°	35923.0	100.0



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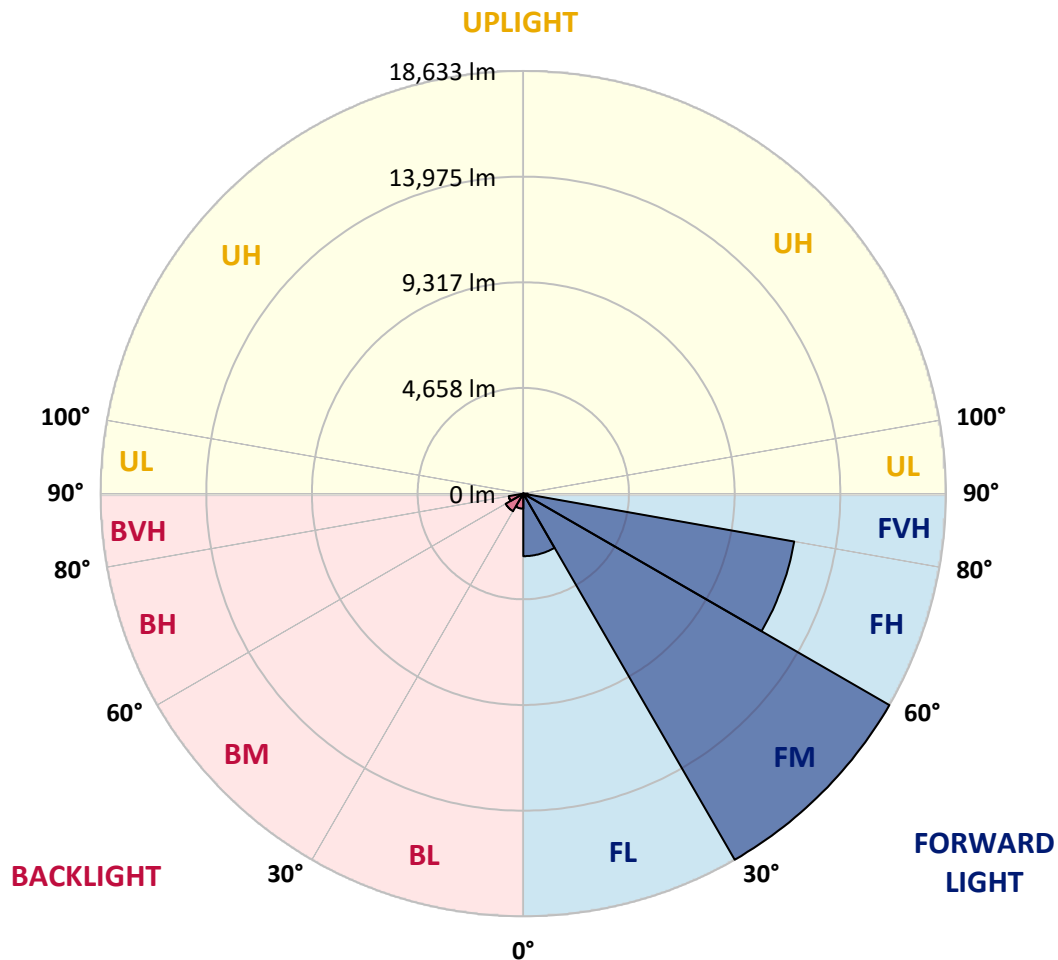
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2757.4	7.7			
FM (30°-60°)	18633.2	51.9			
FH (60°-80°)	12128.3	33.8			G5
FVH (80°-90°)	186.4	0.5			G2/225
BL (0°-30°)	662.3	1.8	B2/1000		
BM (30°-60°)	897.7	2.5	B1/1000		
BH (60°-80°)	647.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	10.1	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5
2.5°	4693.5	4635.1	4653.7	4627.1	4566.0	4475.7	4396.0	4281.8	4167.6	4149.0	4021.5
5°	5312.4	5296.5	5275.2	5198.2	5155.7	5017.6	4852.9	4656.3	4419.9	4377.4	4146.3
7.5°	5734.8	5726.8	5737.4	5697.6	5660.4	5535.5	5360.2	5092.0	4725.4	4701.5	4316.3
10°	5872.9	5894.1	5934.0	5997.7	6056.2	6016.3	5883.5	5548.8	5121.2	5052.1	4510.2
12.5°	5793.2	5817.1	5912.7	6082.7	6271.3	6380.2	6327.1	6082.7	5540.9	5485.1	4728.1
15°	5588.7	5617.9	5753.4	6016.3	6353.7	6661.8	6794.6	6619.3	6029.6	5939.3	4991.0
17.5°	5285.9	5328.4	5522.3	5870.2	6332.4	6863.6	7238.2	7179.7	6550.2	6465.2	5277.9
20°	5057.4	5089.3	5254.0	5652.4	6242.1	6975.2	7660.5	7825.2	7193.0	7046.9	5615.2
22.5°	5208.8	5219.5	5275.2	5514.3	6080.1	7004.4	8032.4	8497.2	7875.7	7745.5	5965.8
25°	5949.9	5843.7	5787.9	5734.8	6045.5	6977.9	8369.7	9198.5	8555.7	8417.5	6313.8
27.5°	7118.6	7070.8	6789.3	6412.1	6340.4	7012.4	8592.8	9862.5	9195.8	9047.1	6653.8
30°	8391.0	8308.6	8136.0	7583.5	7028.3	7256.8	8754.9	10508.0	9952.8	9756.3	6964.6
32.5°	9559.7	9612.8	9355.2	8786.7	8143.9	7777.4	8964.7	11211.9	10821.4	10577.0	7325.8
35°	10922.3	11028.6	10632.8	10088.3	9336.6	8717.7	9373.8	12006.1	11923.7	11615.6	7883.6
37.5°	12306.2	12370.0	12128.3	11363.3	10685.9	9913.0	10144.1	12986.2	13281.1	13018.1	8550.3
40°	13469.6	13557.3	13379.3	12699.3	11976.9	11296.9	11262.3	14054.0	14896.0	14625.1	9543.8
42.5°	14359.5	14425.9	14431.2	13950.4	13299.6	12991.5	12688.7	15416.6	16920.1	16606.6	10696.6
45°	15483.1	15578.7	15522.9	15196.2	14710.1	14654.3	14497.6	17063.5	19342.5	18946.7	12192.0
47.5°	17220.2	17284.0	17145.8	16760.7	16266.6	16354.3	16261.3	18909.6	21812.8	21472.8	13740.6
50°	18426.1	18532.4	18728.9	18883.0	18524.4	18200.4	17924.1	20633.4	24158.2	23852.8	15323.7
52.5°	18412.9	18588.2	19209.7	19985.3	20768.9	20670.6	19876.4	22537.9	26397.4	26020.2	16811.2
55°	17172.4	17512.4	18426.1	19802.0	21972.2	23053.2	22692.0	24742.6	28331.1	28076.1	18535.0
57.5°	14611.8	14819.0	16088.7	18011.8	21300.2	24174.2	25953.8	27730.8	30650.0	30530.5	21212.5
60°	9828.0	9920.9	11554.5	13931.8	18133.9	23055.9	28344.4	31345.9	33505.4	33447.0	24338.9
62.5°	5631.2	5671.0	6855.7	8861.1	12903.9	19539.1	28546.3	35805.7	36929.3	36961.2	27956.6
65°	3030.7	3052.0	4008.2	5200.9	7851.8	13926.5	25669.6	38249.4	39697.1	39758.2	30198.5
66°	2616.4	2515.4	3190.1	4433.2	6247.4	11084.4	23850.1	38161.8	40228.3	40161.9	30118.8
67.5°	1989.5	2079.8	2547.3	3407.9	4629.8	7881.0	19690.5	36464.5	39824.6	39617.4	28894.3
70°	1423.7	1460.9	1814.2	2430.4	3152.9	4324.3	12582.5	30286.1	36196.2	35917.3	25172.9
72.5°	919.0	958.9	1285.6	1758.4	2279.0	2361.4	7044.3	21881.9	27906.1	27866.3	18957.4
75°	656.1	693.3	850.0	1259.0	1713.3	1460.9	3392.0	14747.3	17740.8	17621.3	11727.2
77.5°	475.5	494.1	568.4	823.4	1224.5	1046.5	1572.5	7875.7	8831.9	9248.9	5182.3
80°	273.6	289.5	395.8	502.0	828.7	714.5	751.7	3160.9	3259.2	3102.5	1620.3
82.5°	135.5	154.1	236.4	342.7	518.0	480.8	345.3	950.9	1004.0	977.5	409.1
85°	31.9	39.8	132.8	225.8	252.3	215.2	167.3	278.9	345.3	337.3	156.7
87.5°	2.7	5.3	47.8	39.8	42.5	71.7	58.4	71.7	111.6	103.6	55.8
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°	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5	3928.5
2.5°	3963.1	3912.6	3766.5	3623.1	3503.5	3378.7	3264.5	3198.1	3171.5	3142.3	3155.6
5°	4018.8	3896.7	3601.8	3346.8	3097.1	2884.6	2714.6	2605.7	2552.6	2544.6	2531.4
7.5°	4093.2	3883.4	3426.5	3028.1	2701.4	2465.0	2271.1	2114.3	2066.5	2024.0	1989.5
10°	4183.5	3859.5	3208.7	2693.4	2345.4	2047.9	1792.9	1607.0	1511.4	1484.8	1503.4
12.5°	4279.2	3814.3	2980.3	2385.3	1984.2	1604.4	1367.9	1275.0	1248.4	1237.8	1240.5
15°	4374.8	3758.5	2741.2	2087.8	1580.4	1280.3	1171.4	1147.5	1136.9	1131.5	1126.2
17.5°	4462.4	3668.2	2472.9	1798.3	1280.3	1094.4	1054.5	1033.3	1012.0	1004.0	990.8
20°	4566.0	3564.6	2231.2	1474.2	1083.7	990.8	943.0	903.1	871.2	850.0	847.3
22.5°	4664.3	3431.8	1978.9	1221.9	988.1	889.8	812.8	770.3	733.1	706.6	714.5
25°	4717.4	3269.8	1753.1	1065.1	900.5	788.9	703.9	650.8	610.9	597.6	595.0
27.5°	4717.4	3070.6	1532.6	974.8	820.8	698.6	610.9	560.5	533.9	515.3	518.0
30°	4680.2	2850.1	1328.1	905.8	751.7	618.9	536.6	491.4	470.1	456.9	454.2
32.5°	4651.0	2640.3	1152.8	839.4	680.0	549.8	478.1	443.6	422.3	409.1	409.1
35°	4696.2	2459.7	1017.3	773.0	613.6	496.7	433.0	401.1	379.8	369.2	366.6
37.5°	4815.7	2295.0	913.7	701.2	552.5	451.6	401.1	363.9	342.7	329.4	324.1
40°	5110.5	2202.0	836.7	634.8	494.1	414.4	363.9	329.4	302.8	289.5	286.9
42.5°	5583.4	2204.7	762.3	573.7	448.9	382.5	332.0	292.2	263.0	249.7	247.0
45°	6295.2	2305.6	703.9	515.3	409.1	348.0	297.5	255.0	228.4	215.2	215.2
47.5°	7147.9	2502.2	653.4	464.8	371.9	316.1	263.0	220.5	193.9	183.3	183.3
50°	8072.2	2757.1	603.0	411.7	340.0	281.6	225.8	191.2	170.0	162.0	162.0
52.5°	9015.2	3065.3	552.5	369.2	305.5	244.4	193.9	170.0	151.4	146.1	143.4
55°	10253.0	3458.4	499.4	324.1	268.3	209.8	172.7	148.7	127.5	119.5	116.9
57.5°	12157.5	4050.7	440.9	284.2	220.5	175.3	148.7	124.8	100.9	87.7	85.0
60°	14455.1	4773.2	379.8	249.7	178.0	143.4	119.5	95.6	74.4	58.4	55.8
62.5°	16606.6	5232.7	321.4	209.8	140.8	108.9	85.0	71.7	53.1	37.2	34.5
65°	17557.6	5078.7	265.6	170.0	111.6	77.0	55.8	50.5	31.9	15.9	13.3
66°	17241.5	4850.2	244.4	154.1	100.9	66.4	47.8	42.5	23.9	8.0	8.0
67.5°	16309.1	4311.0	212.5	132.8	87.7	53.1	37.2	31.9	13.3	2.7	0.0
70°	13974.3	3487.6	167.3	98.3	63.7	37.2	21.2	15.9	8.0	0.0	0.0
72.5°	10733.7	2597.8	132.8	74.4	45.2	21.2	10.6	5.3	8.0	0.0	0.0
75°	6576.8	1484.8	103.6	55.8	29.2	13.3	8.0	0.0	8.0	2.7	0.0
77.5°	2919.2	666.7	69.1	37.2	21.2	10.6	5.3	0.0	5.3	2.7	0.0
80°	738.4	217.8	39.8	26.6	15.9	8.0	2.7	0.0	5.3	5.3	2.7
82.5°	201.9	79.7	29.2	21.2	13.3	8.0	2.7	0.0	5.3	5.3	5.3
85°	79.7	37.2	26.6	21.2	15.9	8.0	2.7	0.0	5.3	5.3	5.3
87.5°	37.2	26.6	26.6	23.9	18.6	8.0	2.7	0.0	5.3	2.7	5.3
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)