

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: P456558

Luminaire Tested: **GALN-SA7D-750-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456558
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-SA7D-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA 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: 40280 lumens
Efficiency: N/A
Efficacy: 93.0 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

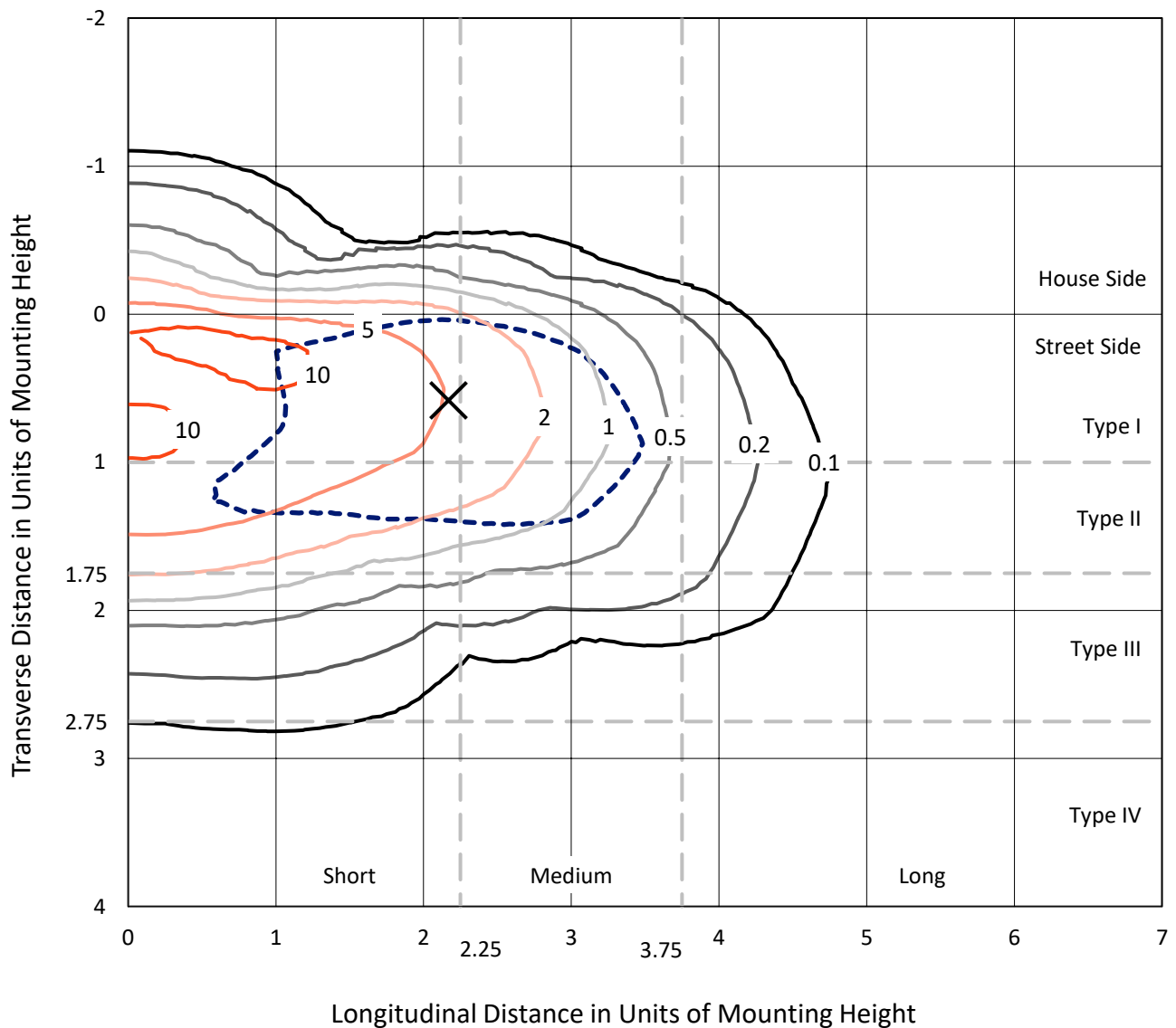
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

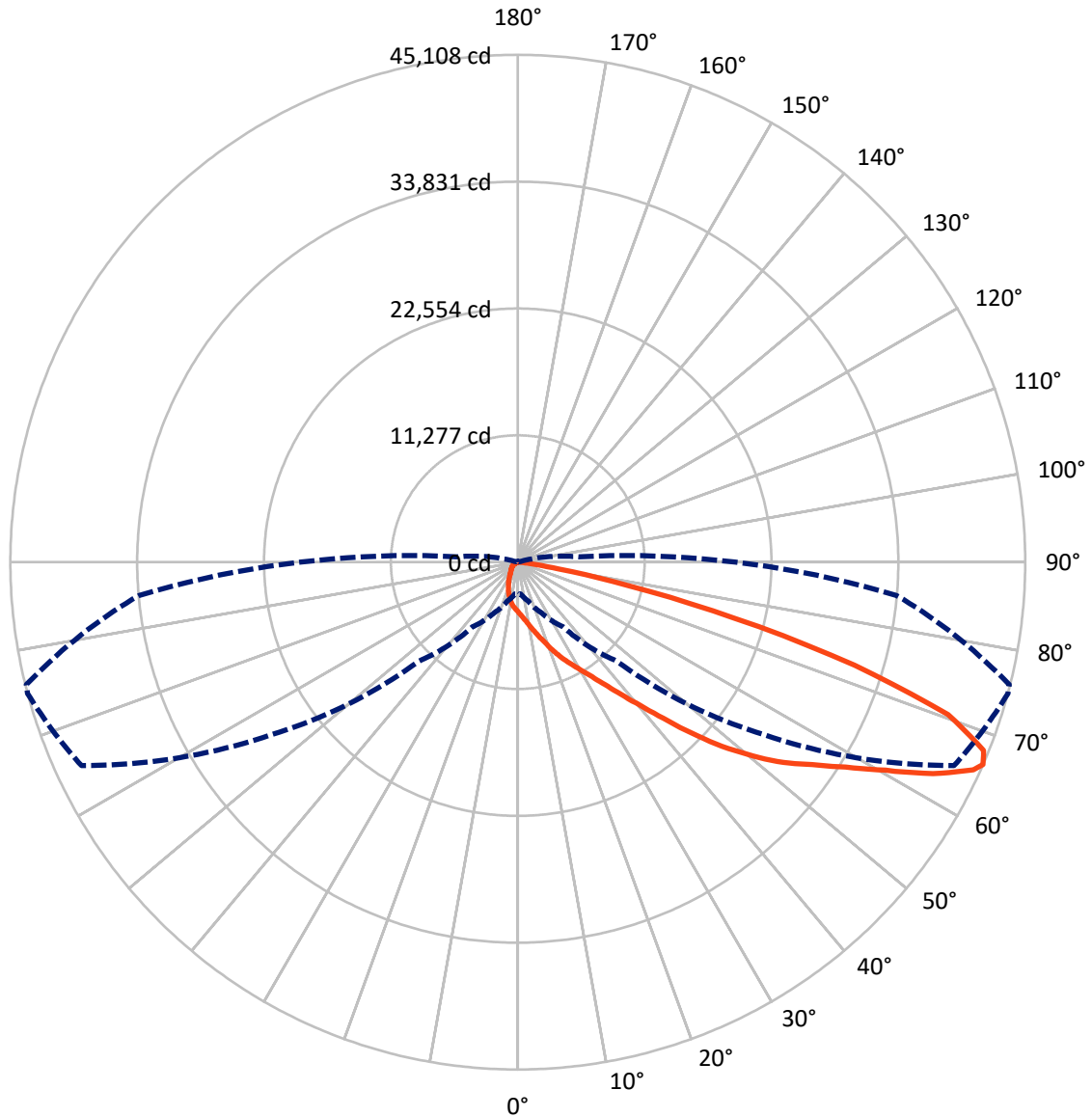
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.1 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	2486.7	0.0	2486.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	37793.3	0.0	37793.3
	% Fixture	93.8	0.0	93.8
Total	Lumens	40280.0	0.0	40280.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	424.9	1.1
10°-20°	1250.4	3.1
20°-30°	2159.2	5.4
30°-40°	3894.7	9.7
40°-50°	7035.9	17.5
50°-60°	10969.1	27.2
60°-70°	10420.2	25.9
70°-80°	3905.2	9.7
80°-90°	220.3	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°	40280.0	100.0
0°-180°	40280.0	100.0

Coefficient of Utilization



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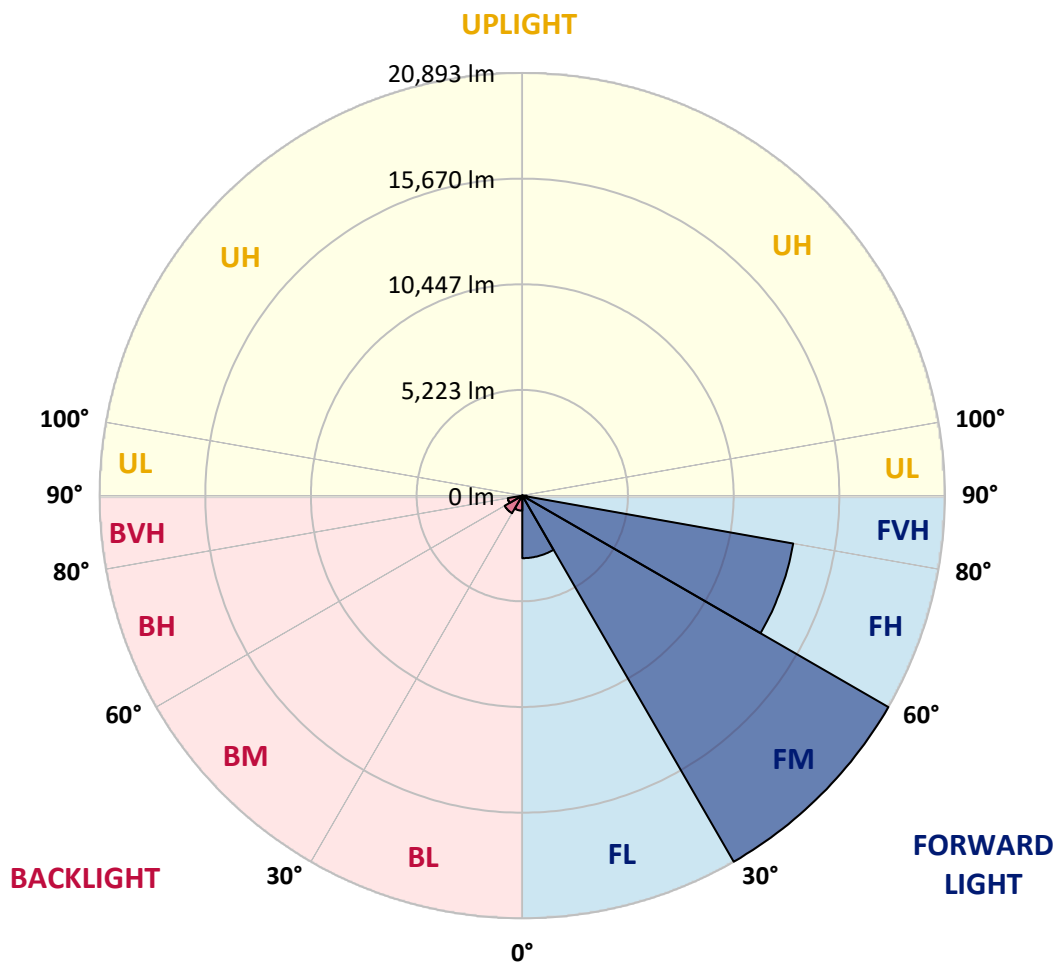
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3091.8	7.7			
FM (30°-60°)	20893.2	51.9			
FH (60°-80°)	13599.3	33.8			G5
FVH (80°-90°)	209.0	0.5			G2/225
BL (0°-30°)	742.6	1.8	B2/1000		
BM (30°-60°)	1006.6	2.5	B2/2500		
BH (60°-80°)	726.1	1.8	B2/1000		G2/1000
BVH (80°-90°)	11.4	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°	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0
2.5°	5262.8	5197.3	5218.1	5188.3	5119.8	5018.6	4929.2	4801.1	4673.1	4652.2	4509.3
5°	5956.7	5938.9	5915.1	5828.7	5781.0	5626.1	5441.5	5221.1	4956.0	4908.4	4649.2
7.5°	6430.3	6421.4	6433.3	6388.6	6346.9	6206.9	6010.4	5709.5	5298.5	5271.7	4839.9
10°	6585.2	6609.0	6653.7	6725.2	6790.7	6746.0	6597.1	6221.8	5742.3	5664.9	5057.3
12.5°	6495.8	6522.6	6629.9	6820.5	7031.9	7154.1	7094.5	6820.5	6212.9	6150.3	5301.5
15°	6266.5	6299.3	6451.2	6746.0	7124.3	7469.8	7618.7	7422.1	6760.9	6659.6	5596.4
17.5°	5927.0	5974.6	6192.0	6582.2	7100.4	7696.1	8116.1	8050.5	7344.7	7249.4	5918.0
20°	5670.8	5706.6	5891.2	6338.0	6999.2	7821.2	8589.6	8774.3	8065.4	7901.6	6296.3
22.5°	5840.6	5852.5	5915.1	6183.1	6817.5	7854.0	9006.6	9527.8	8830.9	8684.9	6689.4
25°	6671.6	6552.4	6489.9	6430.3	6778.8	7824.2	9384.9	10314.1	9593.3	9438.5	7079.6
27.5°	7982.0	7928.4	7612.7	7189.8	7109.4	7862.9	9635.0	11058.7	10311.1	10144.3	7460.8
30°	9408.7	9316.4	9122.8	8503.3	7880.8	8136.9	9816.7	11782.5	11160.0	10939.6	7809.3
32.5°	10719.2	10778.7	10489.8	9852.5	9131.7	8720.7	10052.0	12571.7	12133.9	11859.9	8214.4
35°	12247.1	12366.2	11922.4	11311.9	10469.0	9775.0	10510.7	13462.3	13369.9	13024.4	8839.8
37.5°	13798.8	13870.3	13599.3	12741.5	11982.0	11115.3	11374.4	14561.3	14891.9	14597.0	9587.4
40°	15103.3	15201.6	15002.1	14239.6	13429.5	12667.0	12628.3	15758.6	16702.7	16398.9	10701.3
42.5°	16101.1	16175.6	16181.5	15642.4	14912.7	14567.2	14227.7	17286.5	18972.2	18620.8	11993.9
45°	17360.9	17468.2	17405.6	17039.3	16494.2	16431.7	16256.0	19133.1	21688.5	21244.7	13670.7
47.5°	19308.8	19380.3	19225.4	18793.5	18239.6	18337.9	18233.6	21203.0	24458.4	24077.2	15407.1
50°	20661.0	20780.1	21000.5	21173.3	20771.2	20407.8	20098.1	23136.0	27088.3	26745.8	17182.2
52.5°	20646.1	20842.7	21539.6	22409.3	23287.9	23177.7	22287.2	25271.5	29599.1	29176.2	18850.1
55°	19255.2	19636.4	20661.0	22203.8	24637.1	25849.3	25444.3	27743.6	31767.3	31481.4	20783.1
57.5°	16384.0	16616.4	18040.0	20196.4	23883.6	27106.2	29101.7	31094.2	34367.5	34233.4	23785.3
60°	11020.0	11124.2	12955.9	15621.6	20333.4	25852.3	31782.2	35147.8	37569.2	37503.7	27290.8
62.5°	6314.2	6358.8	7687.2	9935.9	14468.9	21908.9	32008.6	40148.5	41408.3	41444.1	31347.4
65°	3398.3	3422.2	4494.4	5831.7	8804.1	15615.6	28783.0	42888.6	44511.8	44580.3	33861.1
66°	2933.7	2820.5	3577.0	4970.9	7005.1	12428.8	26742.8	42790.3	45107.5	45033.0	33771.8
67.5°	2230.8	2332.1	2856.3	3821.3	5191.3	8836.8	22078.7	40887.1	44654.8	44422.5	32398.8
70°	1596.4	1638.1	2034.2	2725.2	3535.3	4848.8	14108.6	33959.4	40586.3	40273.6	28226.1
72.5°	1030.5	1075.2	1441.5	1971.7	2555.4	2647.8	7898.6	24535.9	31290.8	31246.1	21256.7
75°	735.7	777.4	953.1	1411.7	1921.1	1638.1	3803.4	16535.9	19892.6	19758.5	13149.5
77.5°	533.1	554.0	637.4	923.3	1373.0	1173.5	1763.2	8830.9	9903.1	10370.7	5810.8
80°	306.8	324.6	443.8	562.9	929.3	801.2	842.9	3544.3	3654.5	3478.7	1816.8
82.5°	151.9	172.7	265.1	384.2	580.8	539.1	387.2	1066.3	1125.8	1096.0	458.7
85°	35.7	44.7	148.9	253.2	282.9	241.2	187.6	312.7	387.2	378.3	175.7
87.5°	3.0	6.0	53.6	44.7	47.7	80.4	65.5	80.4	125.1	116.2	62.5
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°	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0	4405.0
2.5°	4443.7	4387.1	4223.3	4062.5	3928.5	3788.5	3660.4	3586.0	3556.2	3523.4	3538.3
5°	4506.3	4369.3	4038.7	3752.8	3472.8	3234.5	3043.9	2921.8	2862.2	2853.3	2838.4
7.5°	4589.7	4354.4	3842.1	3395.3	3029.0	2763.9	2546.5	2370.8	2317.2	2269.5	2230.8
10°	4690.9	4327.6	3597.9	3020.1	2629.9	2296.3	2010.4	1801.9	1694.7	1664.9	1685.8
12.5°	4798.2	4276.9	3341.7	2674.6	2224.8	1798.9	1533.9	1429.6	1399.8	1387.9	1390.9
15°	4905.4	4214.4	3073.7	2341.0	1772.1	1435.6	1313.5	1286.7	1274.7	1268.8	1262.8
17.5°	5003.7	4113.1	2772.9	2016.4	1435.6	1227.1	1182.4	1158.6	1134.8	1125.8	1110.9
20°	5119.8	3997.0	2501.8	1653.0	1215.2	1110.9	1057.3	1012.6	976.9	953.1	950.1
22.5°	5230.0	3848.1	2218.9	1370.1	1108.0	997.8	911.4	863.7	822.0	792.2	801.2
25°	5289.6	3666.4	1965.7	1194.3	1009.7	884.6	789.3	729.7	685.0	670.1	667.2
27.5°	5289.6	3443.0	1718.5	1093.1	920.3	783.3	685.0	628.4	598.7	577.8	580.8
30°	5247.9	3195.8	1489.2	1015.6	842.9	694.0	601.6	551.0	527.2	512.3	509.3
32.5°	5215.1	2960.5	1292.6	941.2	762.5	616.5	536.1	497.4	473.6	458.7	458.7
35°	5265.8	2758.0	1140.7	866.7	688.0	557.0	485.5	449.7	425.9	414.0	411.0
37.5°	5399.8	2573.3	1024.6	786.3	619.5	506.3	449.7	408.0	384.2	369.3	363.4
40°	5730.4	2469.1	938.2	711.8	554.0	464.6	408.0	369.3	339.5	324.6	321.7
42.5°	6260.5	2472.1	854.8	643.3	503.3	428.9	372.3	327.6	294.9	280.0	277.0
45°	7058.7	2585.2	789.3	577.8	458.7	390.2	333.6	285.9	256.1	241.2	241.2
47.5°	8014.8	2805.6	732.7	521.2	417.0	354.4	294.9	247.2	217.4	205.5	205.5
50°	9051.3	3091.6	676.1	461.6	381.2	315.7	253.2	214.4	190.6	181.7	181.7
52.5°	10108.6	3437.0	619.5	414.0	342.5	274.0	217.4	190.6	169.8	163.8	160.8
55°	11496.5	3877.8	559.9	363.4	300.8	235.3	193.6	166.8	143.0	134.0	131.0
57.5°	13632.0	4542.0	494.4	318.7	247.2	196.6	166.8	140.0	113.2	98.3	95.3
60°	16208.3	5352.1	425.9	280.0	199.6	160.8	134.0	107.2	83.4	65.5	62.5
62.5°	18620.8	5867.4	360.4	235.3	157.9	122.1	95.3	80.4	59.6	41.7	38.7
65°	19687.1	5694.7	297.8	190.6	125.1	86.4	62.5	56.6	35.7	17.9	14.9
66°	19332.6	5438.5	274.0	172.7	113.2	74.5	53.6	47.7	26.8	8.9	8.9
67.5°	18287.2	4833.9	238.3	148.9	98.3	59.6	41.7	35.7	14.9	3.0	0.0
70°	15669.2	3910.6	187.6	110.2	71.5	41.7	23.8	17.9	8.9	0.0	0.0
72.5°	12035.6	2912.9	148.9	83.4	50.6	23.8	11.9	6.0	8.9	0.0	0.0
75°	7374.5	1664.9	116.2	62.5	32.8	14.9	8.9	0.0	8.9	3.0	0.0
77.5°	3273.2	747.6	77.4	41.7	23.8	11.9	6.0	0.0	6.0	3.0	0.0
80°	828.0	244.2	44.7	29.8	17.9	8.9	3.0	0.0	6.0	6.0	3.0
82.5°	226.4	89.4	32.8	23.8	14.9	8.9	3.0	0.0	6.0	6.0	6.0
85°	89.4	41.7	29.8	23.8	17.9	8.9	3.0	0.0	6.0	6.0	6.0
87.5°	41.7	29.8	29.8	26.8	20.8	8.9	3.0	0.0	6.0	3.0	6.0
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)