

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: P528565

Luminaire Tested: **GALN-SA3C-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12441 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

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



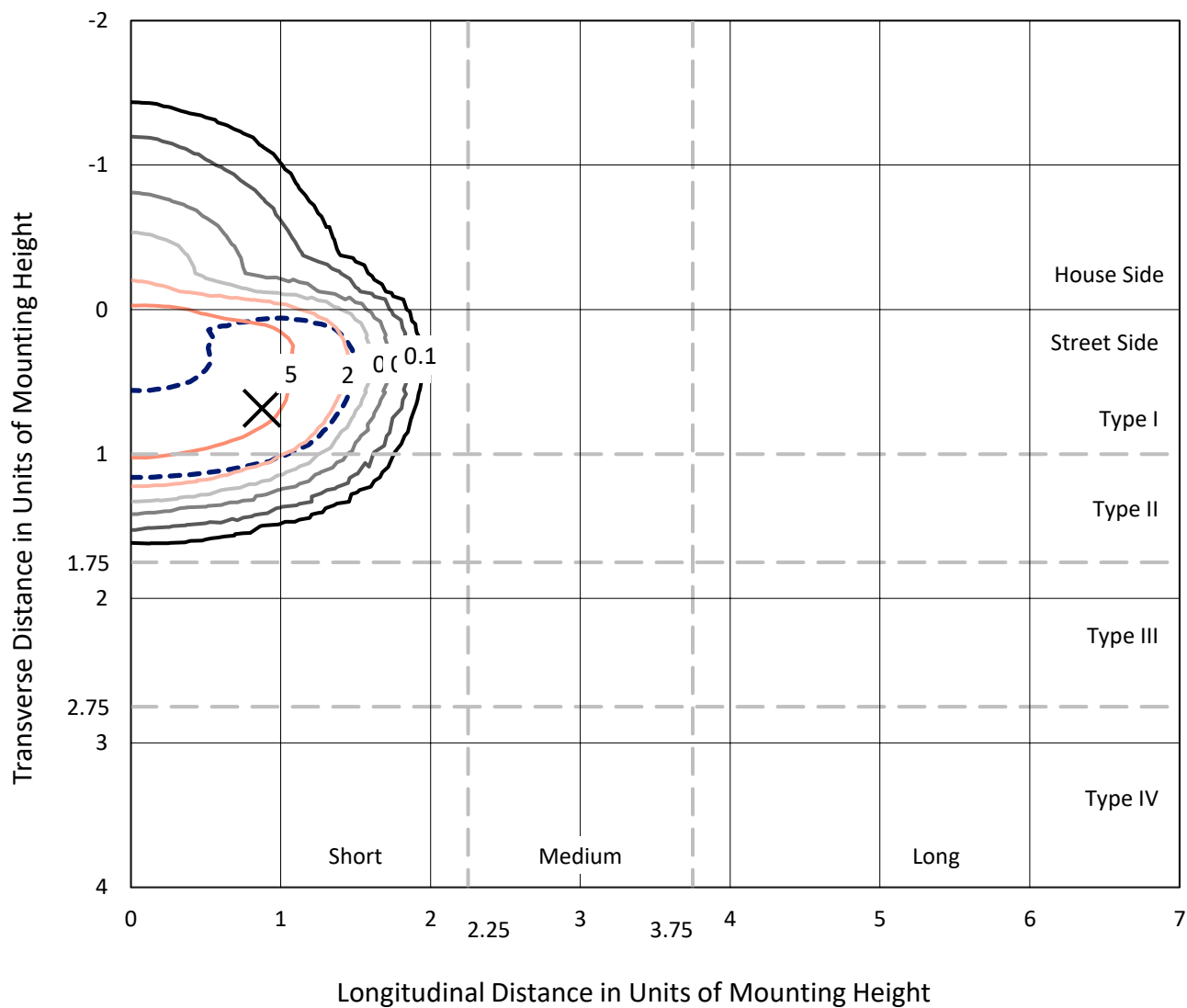
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



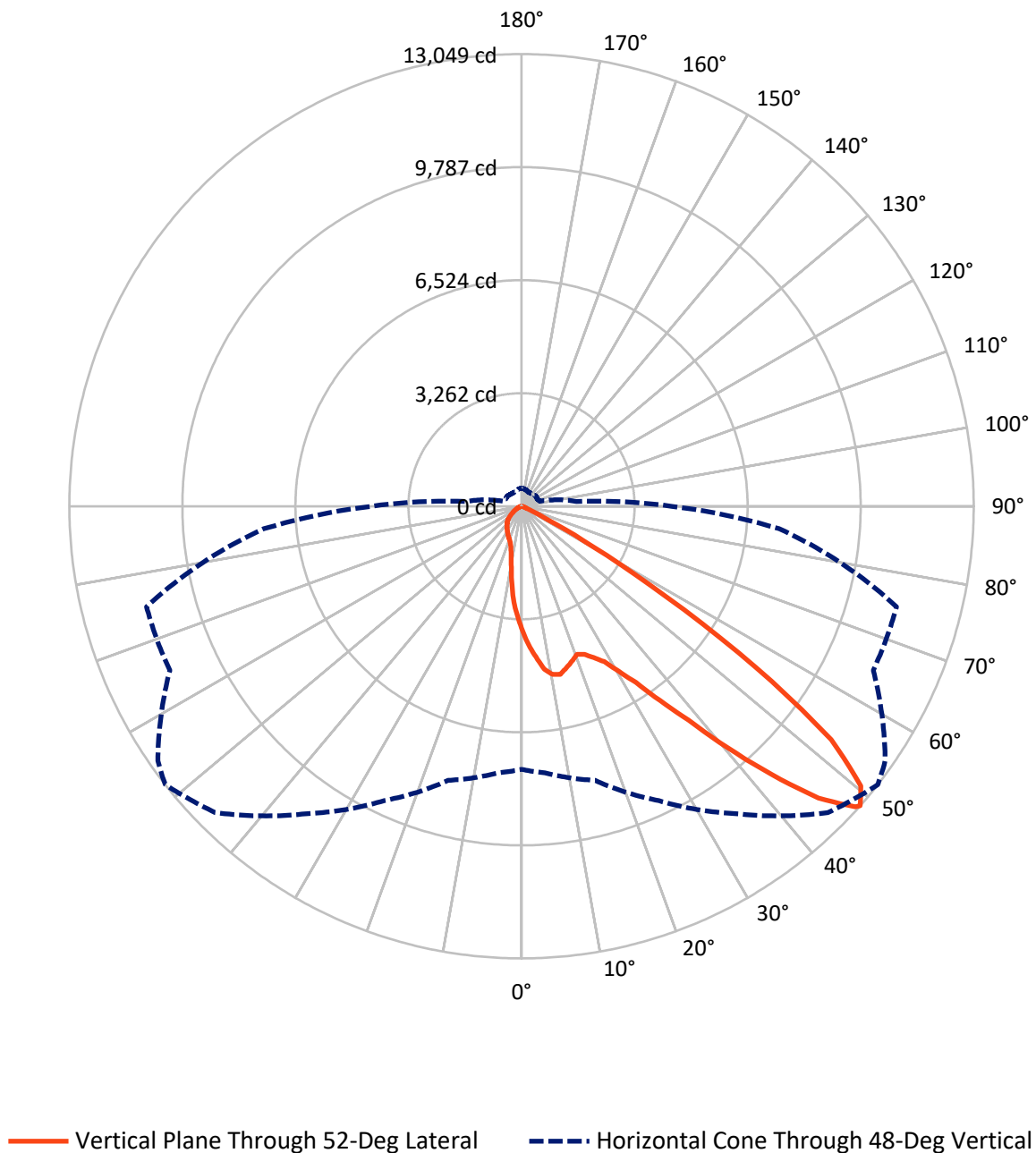
Based on 25 foot mounting height. Maximum calculated value = 8 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1514.8	0.0	1514.8
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	10926.2	0.0	10926.2
	% Fixture	87.8	0.0	87.8
Total	Lumens	12441.0	0.0	12441.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.8	2.6
10°-20°	859.4	6.9
20°-30°	1467.3	11.8
30°-40°	2702.0	21.7
40°-50°	4196.3	33.7
50°-60°	2525.4	20.3
60°-70°	292.1	2.3
70°-80°	56.5	0.5
80°-90°	13.1	0.1
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°	12441.0	100.0
0°-180°	12441.0	100.0

Coefficient of Utilization



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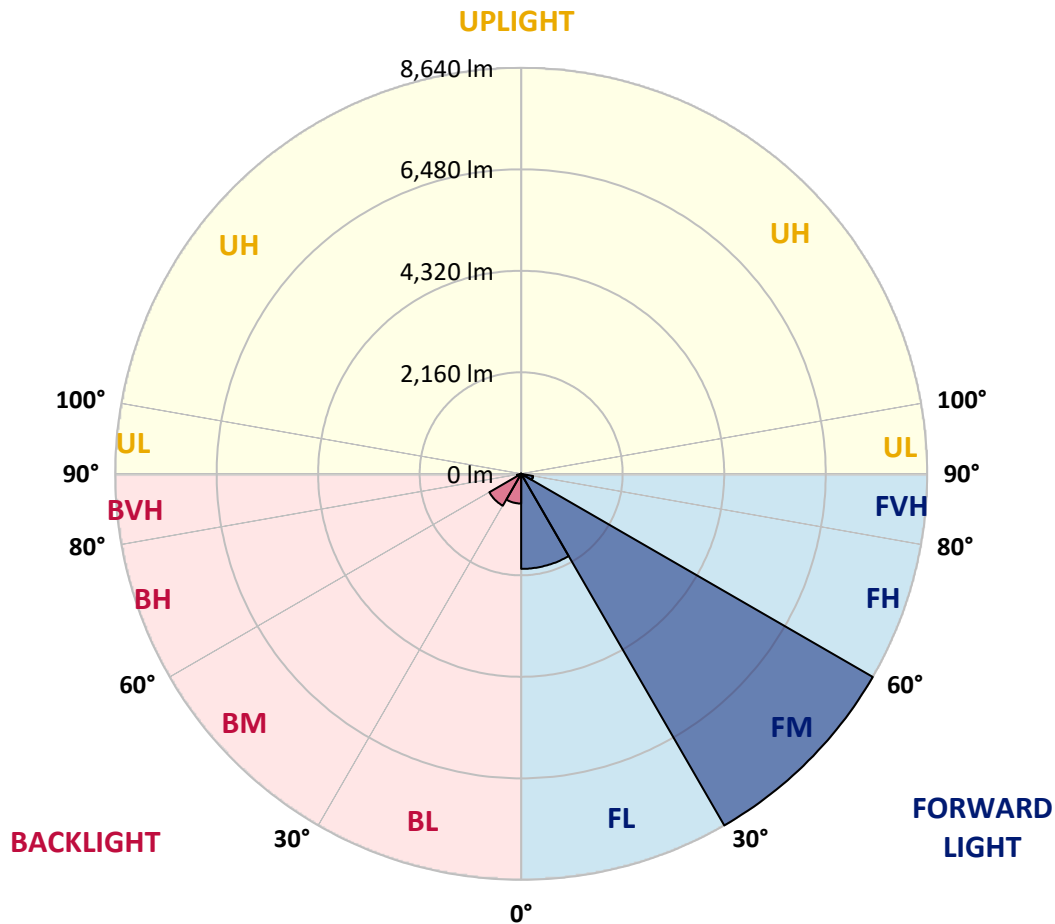
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2022.7	16.3			
FM	(30°-60°)	8640.0	69.4			
FH	(60°-80°)	257.2	2.1			G0/660
FVH	(80°-90°)	6.2	0.0			G0/10
BL	(0°-30°)	632.8	5.1	B2/1000		
BM	(30°-60°)	783.7	6.3	B1/1000		
BH	(60°-80°)	91.4	0.7	B0/110		G0/110
BVH	(80°-90°)	6.8	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8
2.5°	4354.5	4254.7	4263.8	4198.5	4160.4	4098.8	4015.3	3999.0	3908.3	3785.0	3659.9
5°	4746.2	4722.6	4753.5	4659.2	4662.8	4561.2	4365.4	4369.0	4160.4	3959.1	3765.0
7.5°	4771.6	4717.2	4748.0	4831.4	4880.4	4862.3	4751.6	4655.5	4457.8	4162.2	3879.3
10°	4272.9	4376.2	4408.9	4546.7	4742.6	4949.3	4936.6	4942.1	4777.0	4390.7	3977.2
12.5°	3973.6	3904.7	4015.3	4098.8	4394.4	4795.2	4978.3	5018.2	5030.9	4612.0	4075.2
15°	3837.6	3837.6	3855.7	3879.3	4093.3	4463.3	4836.9	4953.0	5226.8	4902.2	4229.3
17.5°	3922.8	3919.2	3944.6	3895.6	3975.4	4260.2	4706.3	4838.7	5446.3	5186.9	4350.8
20°	4182.2	4194.9	4178.5	4037.1	4042.5	4256.5	4561.2	4769.8	5595.0	5433.6	4512.3
22.5°	4543.1	4550.3	4457.8	4303.7	4258.3	4363.5	4644.6	4804.2	5714.7	5729.2	4561.2
25°	4960.2	4931.2	4913.1	4695.4	4557.6	4648.3	4833.3	4925.8	5789.0	5983.1	4700.9
27.5°	5538.8	5480.7	5370.1	5176.0	5074.5	4945.7	5078.1	5230.4	6001.2	6338.6	4853.2
30°	6393.0	6342.2	6126.4	5876.1	5609.5	5482.5	5524.2	5607.7	6383.9	6750.2	5054.5
32.5°	7678.8	7571.8	7259.9	6782.9	6420.2	6070.1	6059.3	6148.1	6726.7	7319.7	5293.9
35°	9095.2	9062.6	8603.7	8112.3	7410.4	6869.9	6879.0	6926.2	7383.2	8066.9	5607.7
37.5°	10036.5	10216.0	9924.1	9396.3	8806.9	8034.3	7838.4	7854.7	8284.6	8952.0	6173.5
40°	10763.8	10611.4	10645.9	10522.5	10119.9	9594.0	9160.5	9075.3	9327.4	9931.3	6735.7
42.5°	10446.4	10453.6	10665.8	10957.8	11057.6	11019.5	10577.0	10415.5	10219.7	10732.9	7270.7
45°	9550.5	9737.3	10012.9	10785.5	11463.8	12100.4	12013.3	11744.9	10836.3	11367.7	7579.1
47.5°	8121.3	8114.1	8565.7	9570.4	11077.5	12568.3	12963.7	12775.0	11273.4	11297.0	7515.6
48°	7593.6	7724.1	8190.2	9372.7	10832.7	12499.4	13048.9	12811.3	11199.0	11202.6	7461.2
50°	5613.1	5589.5	6169.9	7620.8	9675.6	11744.9	12689.8	12874.8	11197.2	10725.7	7080.3
52.5°	2965.2	3066.8	3489.4	4791.5	6840.9	9612.1	11193.6	11481.9	10801.8	9945.8	6532.6
55°	1260.5	1138.9	1463.6	2163.6	3848.5	6422.0	8212.0	8854.0	9133.3	8801.4	5714.7
57.5°	449.8	491.5	565.8	814.3	1617.7	3514.8	4896.7	5395.5	6327.7	6458.3	3893.8
60°	288.4	293.8	317.4	373.6	607.6	1354.8	2323.2	2720.4	3143.0	3244.5	1817.2
62.5°	223.1	224.9	235.8	244.8	288.4	525.9	872.3	1033.8	1073.7	923.1	477.0
65°	186.8	188.6	192.2	192.2	204.9	246.7	304.7	335.5	326.4	322.8	270.2
67.5°	143.3	146.9	154.2	154.2	161.4	150.5	168.7	179.5	203.1	246.7	230.3
70°	112.4	114.3	119.7	123.3	123.3	108.8	121.5	132.4	148.7	183.2	181.4
72.5°	87.1	90.7	94.3	94.3	88.9	74.4	87.1	96.1	107.0	127.0	123.3
75°	67.1	67.1	68.9	56.2	43.5	38.1	52.6	63.5	79.8	83.4	68.9
77.5°	18.1	19.9	18.1	16.3	18.1	27.2	34.5	39.9	50.8	50.8	45.3
80°	0.0	1.8	5.4	10.9	18.1	25.4	30.8	34.5	39.9	43.5	41.7
82.5°	0.0	1.8	5.4	10.9	16.3	19.9	27.2	29.0	32.6	38.1	38.1
85°	0.0	1.8	3.6	7.3	10.9	12.7	12.7	10.9	10.9	9.1	7.3
87.5°	0.0	0.0	1.8	3.6	3.6	5.4	5.4	5.4	5.4	5.4	5.4
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°	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8	3592.8
2.5°	3610.9	3554.7	3469.4	3335.2	3206.5	3123.0	3043.2	2954.4	2905.4	2901.8	2874.6
5°	3654.4	3527.5	3324.3	3094.0	2847.4	2635.2	2421.2	2281.5	2156.4	2087.5	2074.8
7.5°	3678.0	3513.0	3184.7	2798.4	2377.6	2031.2	1791.8	1615.9	1547.0	1496.2	1494.4
10°	3727.0	3487.6	2976.1	2406.7	1886.2	1536.1	1371.1	1291.3	1253.2	1238.7	1216.9
12.5°	3763.2	3440.4	2762.1	2004.0	1490.8	1273.2	1200.6	1182.5	1184.3	1191.5	1182.5
15°	3814.0	3398.7	2473.8	1644.9	1251.4	1146.2	1146.2	1149.8	1175.2	1178.8	1177.0
17.5°	3810.4	3317.1	2176.3	1354.8	1106.3	1091.8	1097.2	1131.7	1148.0	1153.5	1140.8
20°	3853.9	3240.9	1869.8	1157.1	1024.7	1046.5	1082.7	1091.8	1111.7	1115.4	1100.9
22.5°	3841.2	3050.5	1585.1	1001.1	963.0	1004.7	1041.0	1051.9	1046.5	1035.6	1033.8
25°	3817.6	2887.3	1323.9	897.7	917.7	963.0	997.5	977.5	966.7	968.5	970.3
27.5°	3775.9	2680.5	1108.1	825.2	856.0	923.1	921.3	914.1	924.9	915.9	924.9
30°	3768.7	2473.8	930.4	759.9	810.7	859.6	863.3	876.0	888.7	872.3	888.7
32.5°	3779.6	2247.1	803.4	720.0	783.5	785.3	825.2	837.9	828.8	792.5	796.2
35°	3863.0	2073.0	710.9	698.2	740.0	741.8	779.9	763.5	723.6	701.9	714.6
37.5°	4038.9	1927.9	667.4	678.3	681.9	705.5	707.3	674.7	678.3	676.5	683.7
40°	4263.8	1817.2	636.6	660.2	656.5	672.8	607.6	625.7	642.0	647.5	651.1
42.5°	4417.9	1737.4	616.6	631.1	623.9	594.9	558.6	576.7	589.4	609.4	613.0
45°	4486.9	1674.0	593.0	580.4	580.4	527.8	513.3	516.9	545.9	567.7	564.0
47.5°	4374.4	1612.3	551.3	513.3	525.9	482.4	466.1	466.1	496.9	524.1	518.7
48°	4330.9	1586.9	553.1	498.7	507.8	475.2	458.8	455.2	489.7	515.1	515.1
50°	4115.1	1492.6	506.0	458.8	440.7	437.1	426.2	429.8	451.6	475.2	475.2
52.5°	3694.3	1289.5	428.0	393.6	360.9	382.7	388.1	380.9	391.7	413.5	411.7
55°	3083.1	990.2	342.8	326.4	301.1	324.6	335.5	326.4	315.6	331.9	331.9
57.5°	1975.0	533.2	273.9	277.5	252.1	275.7	284.7	263.0	243.0	255.7	253.9
60°	890.5	319.2	224.9	219.4	203.1	230.3	244.8	219.4	192.2	201.3	210.4
62.5°	333.7	226.7	170.5	166.9	163.2	188.6	195.9	175.9	148.7	154.2	156.0
65°	244.8	199.5	136.0	123.3	130.6	148.7	145.1	125.1	107.0	107.0	110.6
67.5°	208.6	174.1	110.6	96.1	96.1	97.9	90.7	79.8	74.4	78.0	81.6
70°	163.2	137.8	87.1	74.4	67.1	59.8	52.6	50.8	45.3	50.8	49.0
72.5°	105.2	92.5	67.1	56.2	50.8	41.7	34.5	32.6	27.2	25.4	25.4
75°	56.2	56.2	52.6	45.3	39.9	32.6	27.2	21.8	14.5	10.9	10.9
77.5°	39.9	43.5	47.2	43.5	36.3	27.2	21.8	14.5	7.3	3.6	3.6
80°	38.1	43.5	47.2	41.7	36.3	27.2	19.9	10.9	5.4	1.8	1.8
82.5°	34.5	39.9	43.5	38.1	32.6	23.6	18.1	10.9	5.4	1.8	1.8
85°	7.3	9.1	10.9	10.9	12.7	16.3	12.7	9.1	3.6	1.8	1.8
87.5°	5.4	5.4	5.4	5.4	5.4	5.4	3.6	3.6	1.8	1.8	1.8
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)