

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: P651882

Luminaire Tested: **GALN-SA5A-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651882
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-SA5A-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 615mA 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: 14367.6 lumens
Efficiency: N/A
Efficacy: 93.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

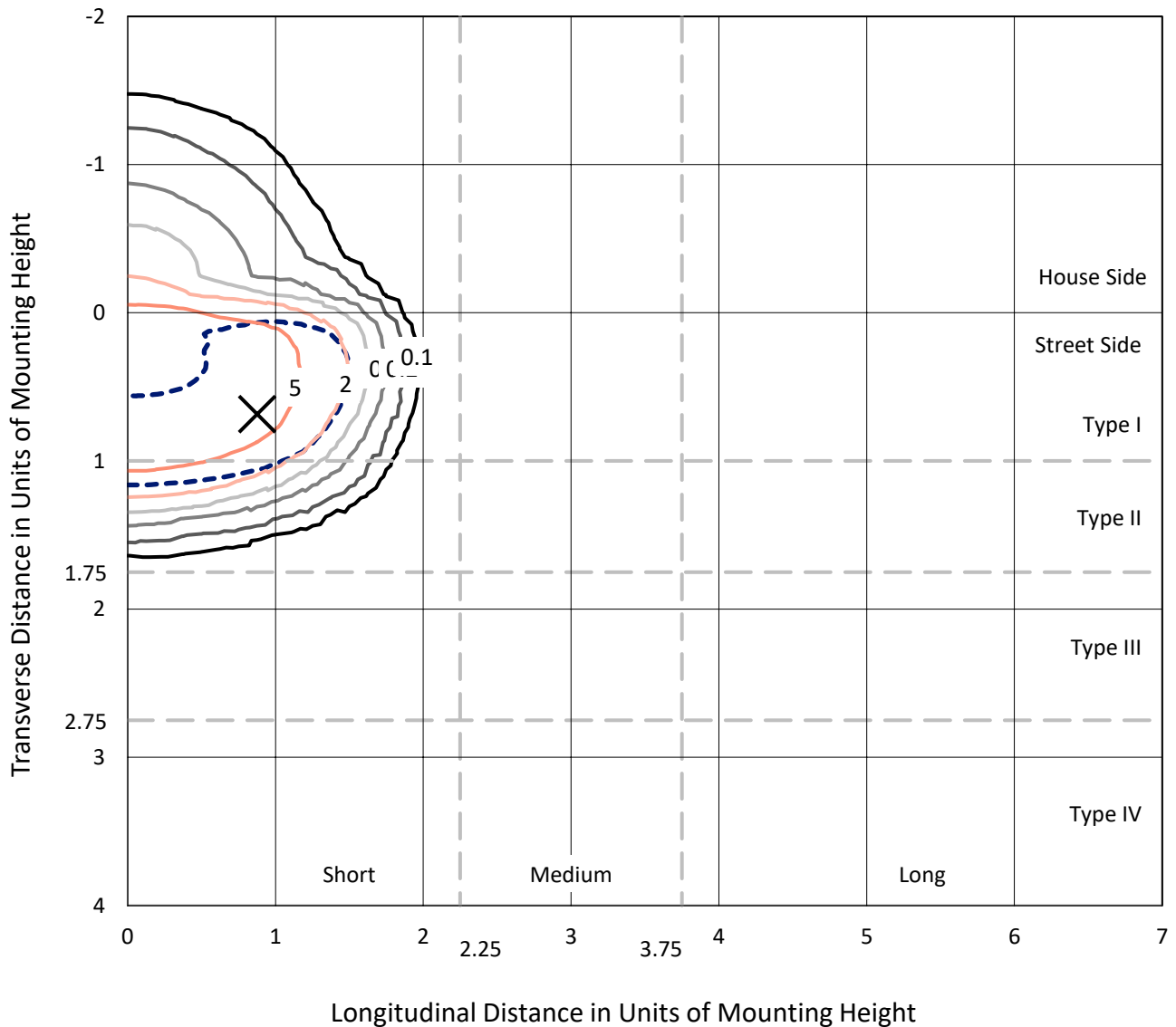
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

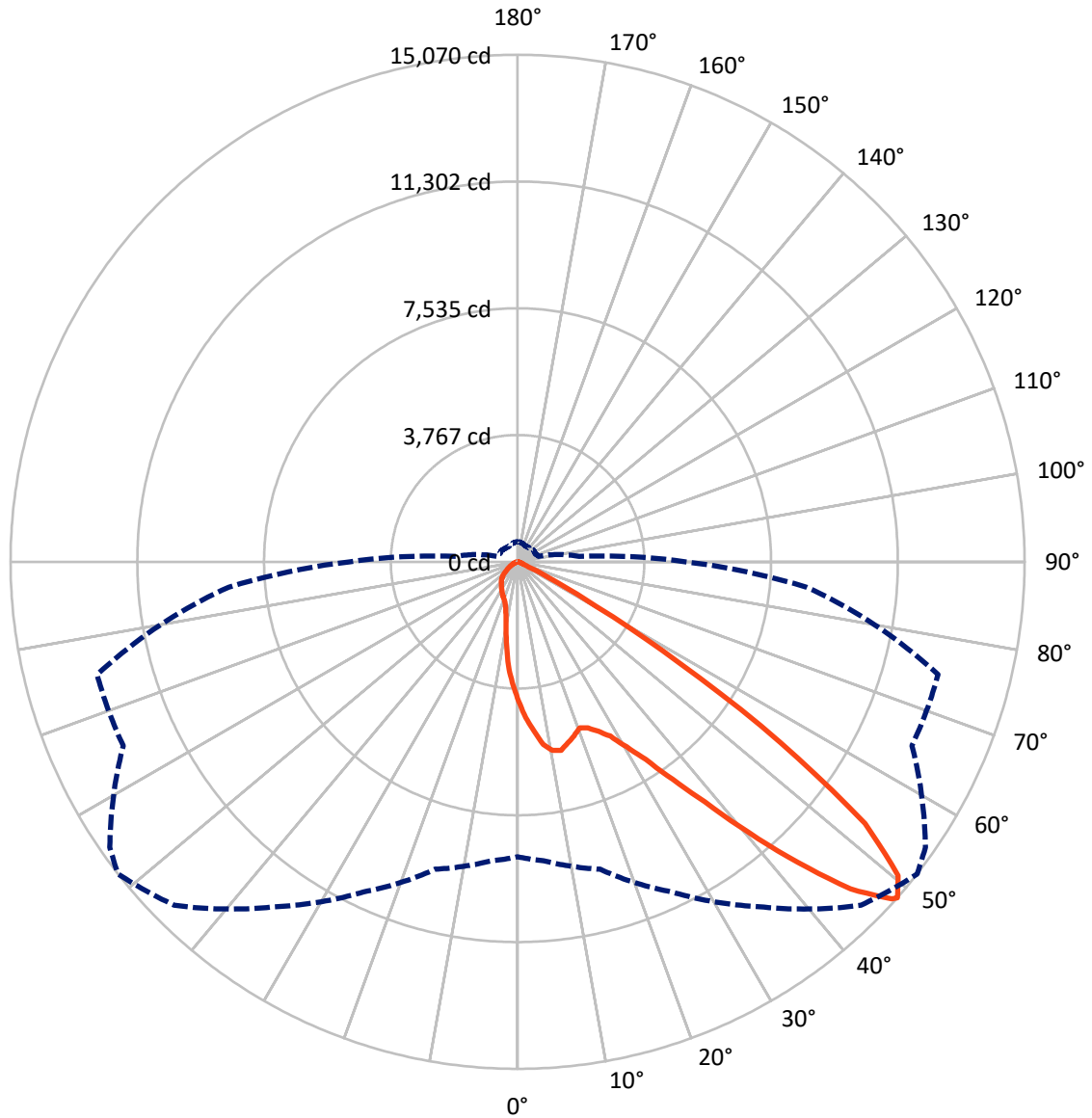
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1749.4	0.0	1749.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	12618.3	0.0	12618.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	14367.6	0.0	14367.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	379.8	2.6
10°-20°	992.5	6.9
20°-30°	1694.5	11.8
30°-40°	3120.5	21.7
40°-50°	4846.1	33.7
50°-60°	2916.5	20.3
60°-70°	337.3	2.3
70°-80°	65.3	0.5
80°-90°	15.1	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°	14367.6	100.0
0°-180°	14367.6	100.0

Coefficient of Utilization

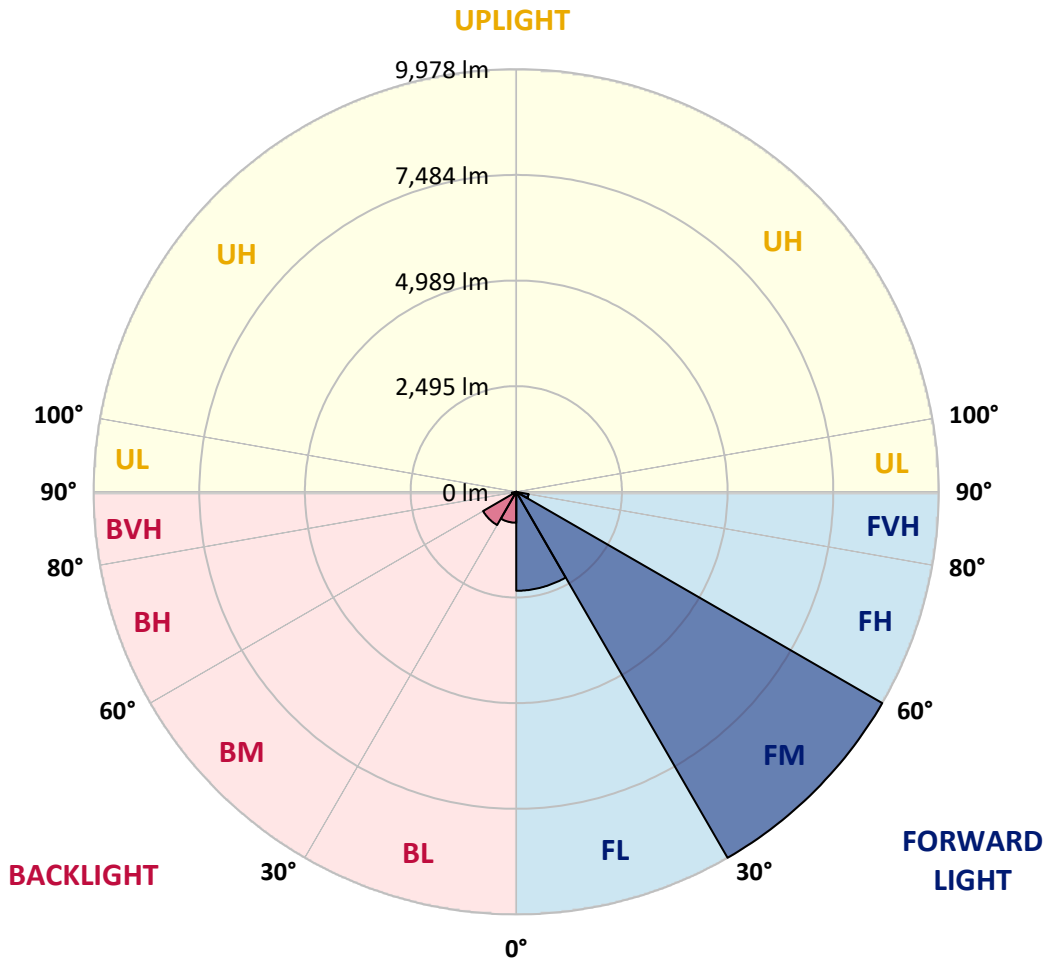


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2336.0	16.3			
FM (30°-60°)	9978.0	69.4			
FH (60°-80°)	297.0	2.1			G0/660
FVH (80°-90°)	7.2	0.1			G0/10
BL (0°-30°)	730.8	5.1	B2/1000		
BM (30°-60°)	905.1	6.3	B1/1000		
BH (60°-80°)	105.6	0.7	B0/110		G0/110
BVH (80°-90°)	7.9	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°	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2
2.5°	5028.8	4913.6	4924.1	4848.7	4804.7	4733.5	4637.1	4618.3	4513.6	4371.2	4226.6
5°	5481.2	5454.0	5489.6	5380.7	5384.8	5267.6	5041.4	5045.6	4804.7	4572.2	4348.1
7.5°	5510.6	5447.7	5483.3	5579.7	5636.2	5615.3	5487.5	5376.5	5148.2	4806.8	4480.1
10°	4934.6	5053.9	5091.7	5250.9	5477.0	5715.8	5701.1	5707.4	5516.8	5070.7	4593.2
12.5°	4589.0	4509.4	4637.1	4733.5	5074.9	5537.7	5749.3	5795.4	5810.0	5326.2	4706.2
15°	4431.9	4431.9	4452.8	4480.1	4727.2	5154.5	5585.9	5720.0	6036.3	5661.4	4884.3
17.5°	4530.3	4526.2	4555.4	4498.9	4591.1	4919.9	5435.1	5588.0	6289.7	5990.2	5024.6
20°	4829.9	4844.5	4825.7	4662.3	4668.6	4915.7	5267.6	5508.5	6461.4	6275.0	5211.0
22.5°	5246.7	5255.0	5148.2	4970.1	4917.8	5039.3	5363.9	5548.2	6599.7	6616.4	5267.6
25°	5728.4	5694.8	5673.9	5422.6	5263.4	5368.1	5581.7	5688.6	6685.5	6909.7	5428.8
27.5°	6396.5	6329.5	6201.7	5977.6	5860.3	5711.6	5864.5	6040.4	6930.6	7320.1	5604.8
30°	7383.0	7324.4	7075.1	6786.0	6478.2	6331.6	6379.7	6476.1	7372.5	7795.6	5837.3
32.5°	8868.0	8744.4	8384.2	7833.3	7414.4	7010.2	6997.6	7100.2	7768.4	8453.2	6113.7
35°	10503.8	10466.1	9936.2	9368.6	8558.0	7933.8	7944.3	7998.8	8526.6	9316.2	6476.1
37.5°	11590.7	11798.1	11460.9	10851.4	10170.7	9278.5	9052.3	9071.1	9567.6	10338.2	7129.6
40°	12430.7	12254.7	12294.5	12152.1	11687.1	11079.8	10579.1	10480.7	10771.9	11469.3	7778.8
42.5°	12064.1	12072.5	12317.5	12654.8	12770.0	12726.0	12214.9	12028.5	11802.3	12395.1	8396.7
45°	11029.5	11245.2	11563.6	12455.8	13239.1	13974.3	13873.7	13563.7	12514.4	13128.1	8752.8
47.5°	9379.0	9370.7	9892.2	11052.5	12793.0	14514.7	14971.2	14753.4	13019.2	13046.4	8679.5
48°	8769.5	8920.3	9458.6	10824.2	12510.2	14435.1	15069.7	14795.3	12933.3	12937.5	8616.6
50°	6482.3	6455.2	7125.4	8801.0	11173.9	13563.7	14655.0	14868.6	12931.2	12386.7	8176.8
52.5°	3424.5	3541.7	4029.7	5533.6	7900.4	11100.7	12927.0	13260.0	12474.6	11486.0	7544.3
55°	1455.7	1315.3	1690.2	2498.7	4444.4	7416.5	9483.7	10225.2	10547.7	10164.4	6599.7
57.5°	519.4	567.6	653.5	940.4	1868.3	4059.1	5655.1	6231.1	7307.6	7458.4	4496.8
60°	333.0	339.3	366.5	431.4	701.6	1564.6	2683.0	3141.7	3629.7	3747.0	2098.6
62.5°	257.6	259.7	272.3	282.7	333.0	607.4	1007.4	1193.9	1239.9	1066.1	550.9
65°	215.7	217.8	222.0	222.0	236.7	284.8	351.9	387.4	377.0	372.8	312.1
67.5°	165.4	169.6	178.0	178.0	186.4	173.8	194.8	207.4	234.6	284.8	266.0
70°	129.9	132.0	138.3	142.5	142.5	125.6	140.4	152.9	171.7	211.5	209.4
72.5°	100.5	104.7	108.9	108.9	102.6	85.9	100.5	111.0	123.5	146.6	142.5
75°	77.5	77.5	79.6	64.9	50.3	44.0	60.7	73.3	92.2	96.4	79.6
77.5°	20.9	23.0	20.9	18.8	20.9	31.5	39.8	46.1	58.6	58.6	52.4
80°	0.0	2.1	6.3	12.5	20.9	29.4	35.6	39.8	46.1	50.3	48.2
82.5°	0.0	2.1	6.3	12.5	18.8	23.0	31.5	33.5	37.7	44.0	44.0
85°	0.0	2.1	4.2	8.4	12.5	14.6	14.6	12.5	12.5	10.5	8.4
87.5°	0.0	0.0	2.1	4.2	4.2	6.3	6.3	6.3	6.3	6.3	6.3
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°	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2	4149.2
2.5°	4170.1	4105.2	4006.7	3851.7	3703.0	3606.6	3514.5	3411.9	3355.3	3351.1	3319.8
5°	4220.4	4073.7	3839.2	3573.2	3288.3	3043.2	2796.1	2634.9	2490.3	2410.7	2396.1
7.5°	4247.6	4057.0	3677.9	3231.8	2745.9	2345.8	2069.4	1866.2	1786.6	1727.9	1725.8
10°	4304.2	4027.6	3437.0	2779.3	2178.3	1774.0	1583.4	1491.3	1447.3	1430.5	1405.4
12.5°	4346.0	3973.2	3189.9	2314.3	1721.6	1470.3	1386.6	1365.6	1367.7	1376.0	1365.6
15°	4404.7	3925.0	2856.9	1899.7	1445.2	1323.7	1323.7	1327.9	1357.2	1361.4	1359.3
17.5°	4400.4	3830.8	2513.3	1564.6	1277.6	1260.8	1267.1	1306.9	1325.8	1332.1	1317.4
20°	4450.7	3742.8	2159.4	1336.3	1183.4	1208.5	1250.4	1260.8	1283.9	1288.1	1271.3
22.5°	4436.1	3522.9	1830.6	1156.1	1112.1	1160.3	1202.2	1214.8	1208.5	1195.9	1193.9
25°	4408.9	3334.4	1528.9	1036.8	1059.8	1112.1	1151.9	1129.0	1116.3	1118.4	1120.5
27.5°	4360.7	3095.6	1279.7	953.0	988.6	1066.1	1063.9	1055.6	1068.2	1057.7	1068.2
30°	4352.3	2856.9	1074.5	877.6	936.2	992.8	997.0	1011.6	1026.3	1007.4	1026.3
32.5°	4364.9	2595.1	927.9	831.5	904.8	906.9	953.0	967.7	957.1	915.3	919.5
35°	4461.3	2394.0	821.1	806.4	854.5	856.6	900.6	881.8	835.7	810.6	825.2
37.5°	4664.4	2226.4	770.8	783.3	787.5	814.8	816.9	779.1	783.3	781.2	789.6
40°	4924.1	2098.6	735.1	762.4	758.2	777.1	701.6	722.6	741.4	747.7	751.9
42.5°	5102.1	2006.5	712.2	728.9	720.5	687.0	645.1	666.1	680.7	703.7	708.0
45°	5181.7	1933.2	684.9	670.2	670.2	609.5	592.7	596.9	630.4	655.6	651.4
47.5°	5051.9	1862.0	636.7	592.7	607.4	557.2	538.2	538.2	573.9	605.3	599.0
48°	5001.6	1832.6	638.8	576.0	586.4	548.8	529.9	525.7	565.5	594.8	594.8
50°	4752.3	1723.7	584.3	529.9	509.0	504.8	492.2	496.4	521.5	548.8	548.8
52.5°	4266.4	1489.2	494.3	454.5	416.8	441.9	448.3	439.8	452.4	477.5	475.4
55°	3560.6	1143.6	395.9	377.0	347.7	374.9	387.4	377.0	364.4	383.3	383.3
57.5°	2280.9	615.8	316.3	320.4	291.2	318.3	328.8	303.7	280.6	295.4	293.3
60°	1028.4	368.6	259.7	253.4	234.6	266.0	282.7	253.4	222.0	232.5	243.0
62.5°	385.3	261.8	196.9	192.7	188.5	217.8	226.2	203.2	171.7	178.0	180.1
65°	282.7	230.3	157.1	142.5	150.8	171.7	167.5	144.5	123.5	123.5	127.7
67.5°	240.9	201.1	127.7	111.0	111.0	113.1	104.7	92.2	85.9	90.1	94.3
70°	188.5	159.2	100.5	85.9	77.5	69.1	60.7	58.6	52.4	58.6	56.5
72.5°	121.4	106.8	77.5	64.9	58.6	48.2	39.8	37.7	31.5	29.4	29.4
75°	64.9	64.9	60.7	52.4	46.1	37.7	31.5	25.1	16.7	12.5	12.5
77.5°	46.1	50.3	54.5	50.3	41.9	31.5	25.1	16.7	8.4	4.2	4.2
80°	44.0	50.3	54.5	48.2	41.9	31.5	23.0	12.5	6.3	2.1	2.1
82.5°	39.8	46.1	50.3	44.0	37.7	27.2	20.9	12.5	6.3	2.1	2.1
85°	8.4	10.5	12.5	12.5	14.6	18.8	14.6	10.5	4.2	2.1	2.1
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	4.2	4.2	2.1	2.1	2.1
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)