

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: P529761

Luminaire Tested: **GALN-SA5A-722-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529761
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-722-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 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: 12559 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G0

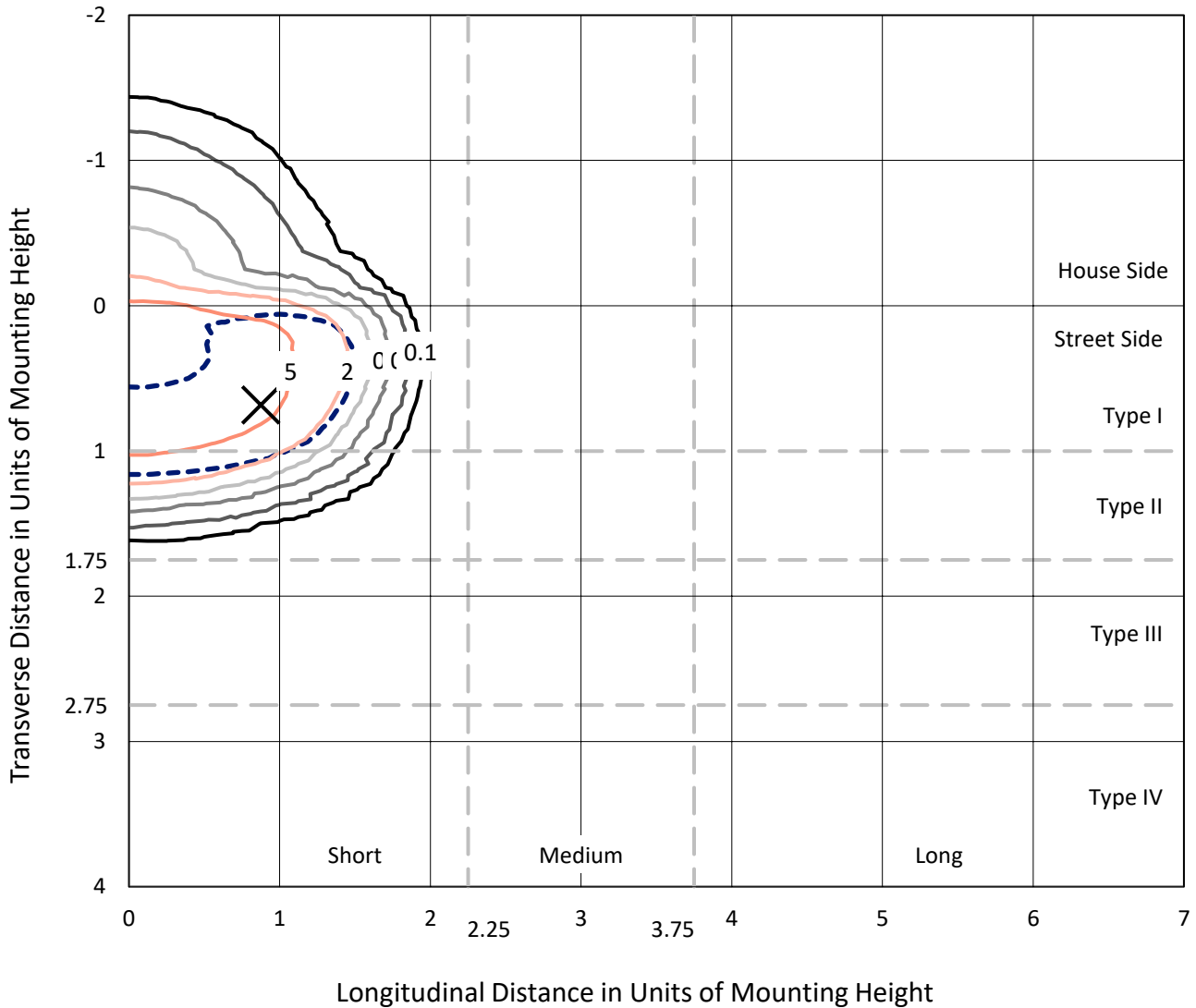
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

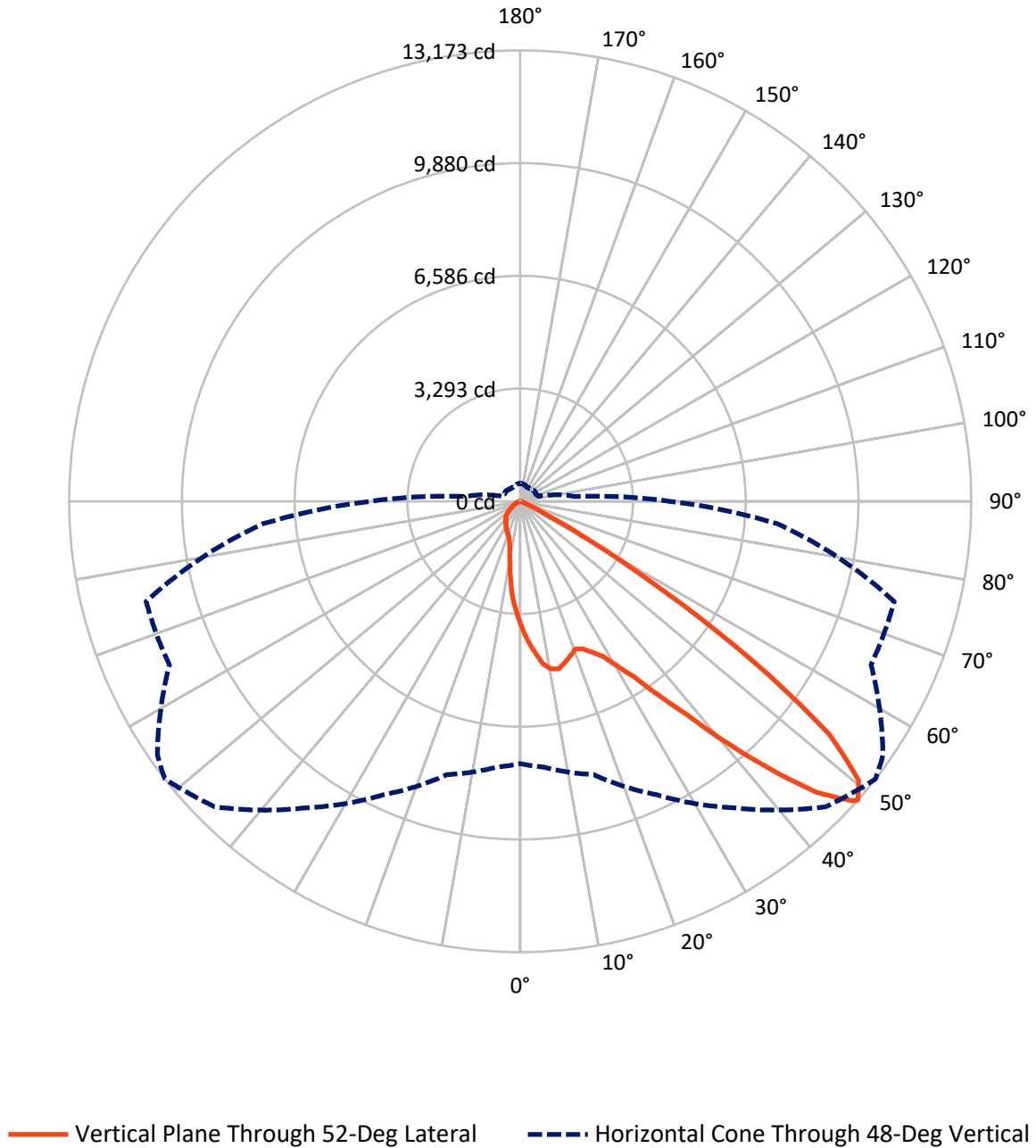
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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	1529.2	0.0	1529.2
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	11029.8	0.0	11029.8
	% Fixture	87.8	0.0	87.8
Total	Lumens	12559.0	0.0	12559.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.0	2.6
10°-20°	867.5	6.9
20°-30°	1481.2	11.8
30°-40°	2727.7	21.7
40°-50°	4236.1	33.7
50°-60°	2549.4	20.3
60°-70°	294.9	2.3
70°-80°	57.1	0.5
80°-90°	13.2	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°	12559.0	100.0
0°-180°	12559.0	100.0

Coefficient of Utilization



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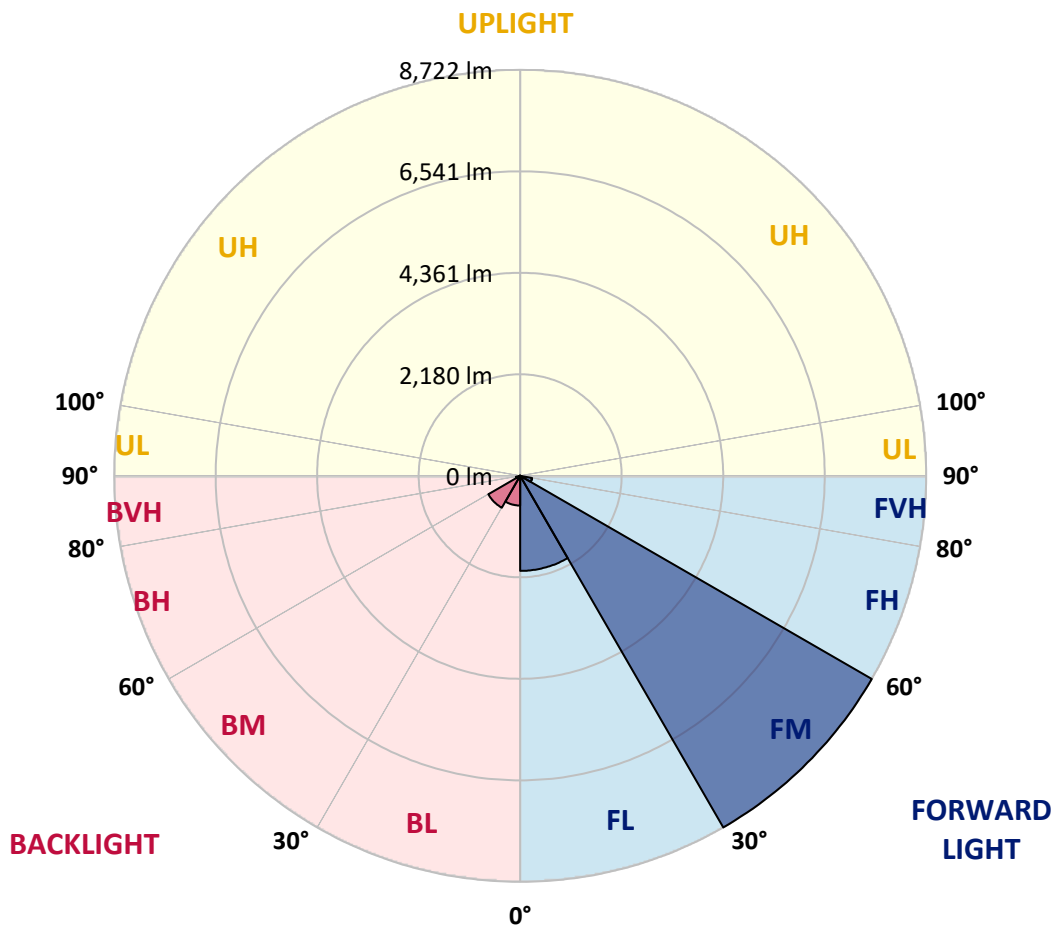
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2041.9	16.3			
FM (30°-60°)	8722.0	69.4			
FH (60°-80°)	259.7	2.1			G0/660
FVH (80°-90°)	6.3	0.1			G0/10
BL (0°-30°)	638.8	5.1	B2/1000		
BM (30°-60°)	791.2	6.3	B1/1000		
BH (60°-80°)	92.3	0.7	B0/110		G0/110
BVH (80°-90°)	6.9	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°	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8
2.5°	4395.8	4295.1	4304.2	4238.3	4199.9	4137.6	4053.4	4036.9	3945.4	3820.9	3694.6
5°	4791.2	4767.4	4798.5	4703.3	4707.0	4604.5	4406.8	4410.4	4199.9	3996.7	3800.8
7.5°	4816.9	4761.9	4793.1	4877.3	4926.7	4908.4	4796.7	4699.7	4500.1	4201.7	3916.1
10°	4313.4	4417.7	4450.7	4589.8	4787.6	4996.3	4983.5	4989.0	4822.3	4432.4	4015.0
12.5°	4011.3	3941.7	4053.4	4137.6	4436.0	4840.7	5025.6	5065.8	5078.7	4655.7	4113.8
15°	3874.0	3874.0	3892.3	3916.1	4132.1	4505.6	4882.8	4999.9	5276.4	4948.7	4269.4
17.5°	3960.0	3956.4	3982.0	3932.6	4013.1	4300.6	4750.9	4884.6	5497.9	5236.1	4392.1
20°	4221.8	4234.7	4218.2	4075.4	4080.9	4296.9	4604.5	4815.0	5648.0	5485.1	4555.1
22.5°	4586.2	4593.5	4500.1	4344.5	4298.7	4404.9	4688.7	4849.8	5768.9	5783.5	4604.5
25°	5007.3	4978.0	4959.7	4740.0	4600.8	4692.4	4879.1	4972.5	5843.9	6039.8	4745.5
27.5°	5591.3	5532.7	5421.0	5225.1	5122.6	4992.6	5126.3	5280.1	6058.1	6398.7	4899.2
30°	6453.6	6402.3	6184.5	5931.8	5662.7	5534.5	5576.6	5660.9	6444.4	6814.3	5102.5
32.5°	7751.6	7643.6	7328.7	6847.2	6481.1	6127.7	6116.7	6206.4	6790.5	7389.1	5344.1
35°	9181.5	9148.5	8685.4	8189.2	7480.7	6935.1	6944.3	6991.9	7453.2	8143.4	5660.9
37.5°	10131.7	10312.9	10018.2	9485.4	8890.4	8110.5	7912.8	7929.2	8363.1	9036.9	6232.1
40°	10865.8	10712.1	10746.8	10622.3	10215.9	9685.0	9247.4	9161.4	9415.8	10025.5	6799.6
42.5°	10545.5	10552.8	10767.0	11061.7	11162.4	11124.0	10677.3	10514.3	10316.6	10834.7	7339.7
45°	9641.0	9829.6	10107.9	10887.8	11572.5	12215.2	12127.3	11856.3	10939.1	11475.5	7650.9
47.5°	8198.4	8191.0	8646.9	9661.2	11182.6	12687.5	13086.6	12896.2	11380.3	11404.1	7586.9
48°	7665.6	7797.4	8267.9	9461.6	10935.4	12617.9	13172.7	12932.8	11305.2	11308.9	7531.9
50°	5666.4	5642.6	6228.4	7693.1	9767.4	11856.3	12810.2	12996.9	11303.4	10827.4	7147.5
52.5°	2993.4	3095.9	3522.5	4837.0	6905.8	9703.3	11299.7	11590.8	10904.3	10040.2	6594.6
55°	1272.4	1149.7	1477.5	2184.2	3885.0	6482.9	8289.9	8938.0	9219.9	8884.9	5768.9
57.5°	454.0	496.1	571.2	822.0	1633.1	3548.1	4943.2	5446.7	6387.7	6519.5	3930.7
60°	291.1	296.6	320.4	377.1	613.3	1367.6	2345.3	2746.2	3172.8	3275.3	1834.5
62.5°	225.2	227.0	238.0	247.2	291.1	530.9	880.6	1043.6	1083.8	931.9	481.5
65°	188.6	190.4	194.1	194.1	206.9	249.0	307.6	338.7	329.5	325.9	272.8
67.5°	144.6	148.3	155.6	155.6	162.9	152.0	170.3	181.2	205.1	249.0	232.5
70°	113.5	115.3	120.8	124.5	124.5	109.8	122.7	133.6	150.1	184.9	183.1
72.5°	87.9	91.5	95.2	95.2	89.7	75.1	87.9	97.0	108.0	128.2	124.5
75°	67.7	67.7	69.6	56.8	43.9	38.4	53.1	64.1	80.6	84.2	69.6
77.5°	18.3	20.1	18.3	16.5	18.3	27.5	34.8	40.3	51.3	51.3	45.8
80°	0.0	1.8	5.5	11.0	18.3	25.6	31.1	34.8	40.3	43.9	42.1
82.5°	0.0	1.8	5.5	11.0	16.5	20.1	27.5	29.3	33.0	38.4	38.4
85°	0.0	1.8	3.7	7.3	11.0	12.8	12.8	11.0	11.0	9.2	7.3
87.5°	0.0	0.0	1.8	3.7	3.7	5.5	5.5	5.5	5.5	5.5	5.5
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°	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8	3626.8
2.5°	3645.1	3588.4	3502.3	3366.9	3236.9	3152.7	3072.1	2982.4	2933.0	2929.3	2901.8
5°	3689.1	3560.9	3355.9	3123.4	2874.4	2660.2	2444.1	2303.2	2176.8	2107.3	2094.4
7.5°	3712.9	3546.3	3214.9	2824.9	2400.2	2050.5	1808.8	1631.2	1561.7	1510.4	1508.6
10°	3762.3	3520.6	3004.4	2429.5	1904.0	1550.7	1384.1	1303.5	1265.1	1250.4	1228.5
12.5°	3798.9	3473.0	2788.3	2023.0	1504.9	1285.2	1212.0	1193.7	1195.5	1202.8	1193.7
15°	3850.2	3430.9	2497.2	1660.5	1263.3	1157.1	1157.1	1160.7	1186.4	1190.0	1188.2
17.5°	3846.5	3348.5	2197.0	1367.6	1116.8	1102.1	1107.6	1142.4	1158.9	1164.4	1151.6
20°	3890.5	3271.7	1887.6	1168.1	1034.4	1056.4	1093.0	1102.1	1122.3	1125.9	1111.3
22.5°	3877.7	3079.4	1600.1	1010.6	972.2	1014.3	1050.9	1061.9	1056.4	1045.4	1043.6
25°	3853.9	2914.6	1336.5	906.2	926.4	972.2	1006.9	986.8	975.8	977.7	979.5
27.5°	3811.7	2705.9	1118.6	833.0	864.1	931.9	930.1	922.7	933.7	924.6	933.7
30°	3804.4	2497.2	939.2	767.1	818.4	867.8	871.5	884.3	897.1	880.6	897.1
32.5°	3815.4	2268.4	811.0	726.8	790.9	792.7	833.0	845.8	836.7	800.1	803.7
35°	3899.6	2092.6	717.7	704.9	747.0	748.8	787.2	770.8	730.5	708.5	721.3
37.5°	4077.2	1946.1	673.7	684.7	688.4	712.2	714.0	681.1	684.7	682.9	690.2
40°	4304.2	1834.5	642.6	666.4	662.8	679.2	613.3	631.6	648.1	653.6	657.3
42.5°	4459.8	1753.9	622.5	637.1	629.8	600.5	563.9	582.2	595.0	615.2	618.8
45°	4529.4	1689.8	598.7	585.9	585.9	532.8	518.1	521.8	551.1	573.0	569.4
47.5°	4415.9	1627.6	556.6	518.1	530.9	487.0	470.5	470.5	501.6	529.1	523.6
48°	4372.0	1602.0	558.4	503.5	512.6	479.7	463.2	459.5	494.3	519.9	519.9
50°	4154.1	1506.8	510.8	463.2	444.9	441.2	430.2	433.9	455.9	479.7	479.7
52.5°	3729.4	1301.7	432.1	397.3	364.3	386.3	391.8	384.5	395.5	417.4	415.6
55°	3112.4	999.6	346.0	329.5	303.9	327.7	338.7	329.5	318.6	335.0	335.0
57.5°	1993.7	538.3	276.5	280.1	254.5	278.3	287.4	265.5	245.3	258.1	256.3
60°	898.9	322.2	227.0	221.5	205.1	232.5	247.2	221.5	194.1	203.2	212.4
62.5°	336.9	228.9	172.1	168.4	164.8	190.4	197.7	177.6	150.1	155.6	157.4
65°	247.2	201.4	137.3	124.5	131.8	150.1	146.5	126.3	108.0	108.0	111.7
67.5°	210.5	175.8	111.7	97.0	97.0	98.9	91.5	80.6	75.1	78.7	82.4
70°	164.8	139.1	87.9	75.1	67.7	60.4	53.1	51.3	45.8	51.3	49.4
72.5°	106.2	93.4	67.7	56.8	51.3	42.1	34.8	33.0	27.5	25.6	25.6
75°	56.8	56.8	53.1	45.8	40.3	33.0	27.5	22.0	14.6	11.0	11.0
77.5°	40.3	43.9	47.6	43.9	36.6	27.5	22.0	14.6	7.3	3.7	3.7
80°	38.4	43.9	47.6	42.1	36.6	27.5	20.1	11.0	5.5	1.8	1.8
82.5°	34.8	40.3	43.9	38.4	33.0	23.8	18.3	11.0	5.5	1.8	1.8
85°	7.3	9.2	11.0	11.0	12.8	16.5	12.8	9.2	3.7	1.8	1.8
87.5°	5.5	5.5	5.5	5.5	5.5	5.5	3.7	3.7	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)