

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: P531859

Luminaire Tested: **GALN-SA7A-830-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531859
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-830-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15394 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 215
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

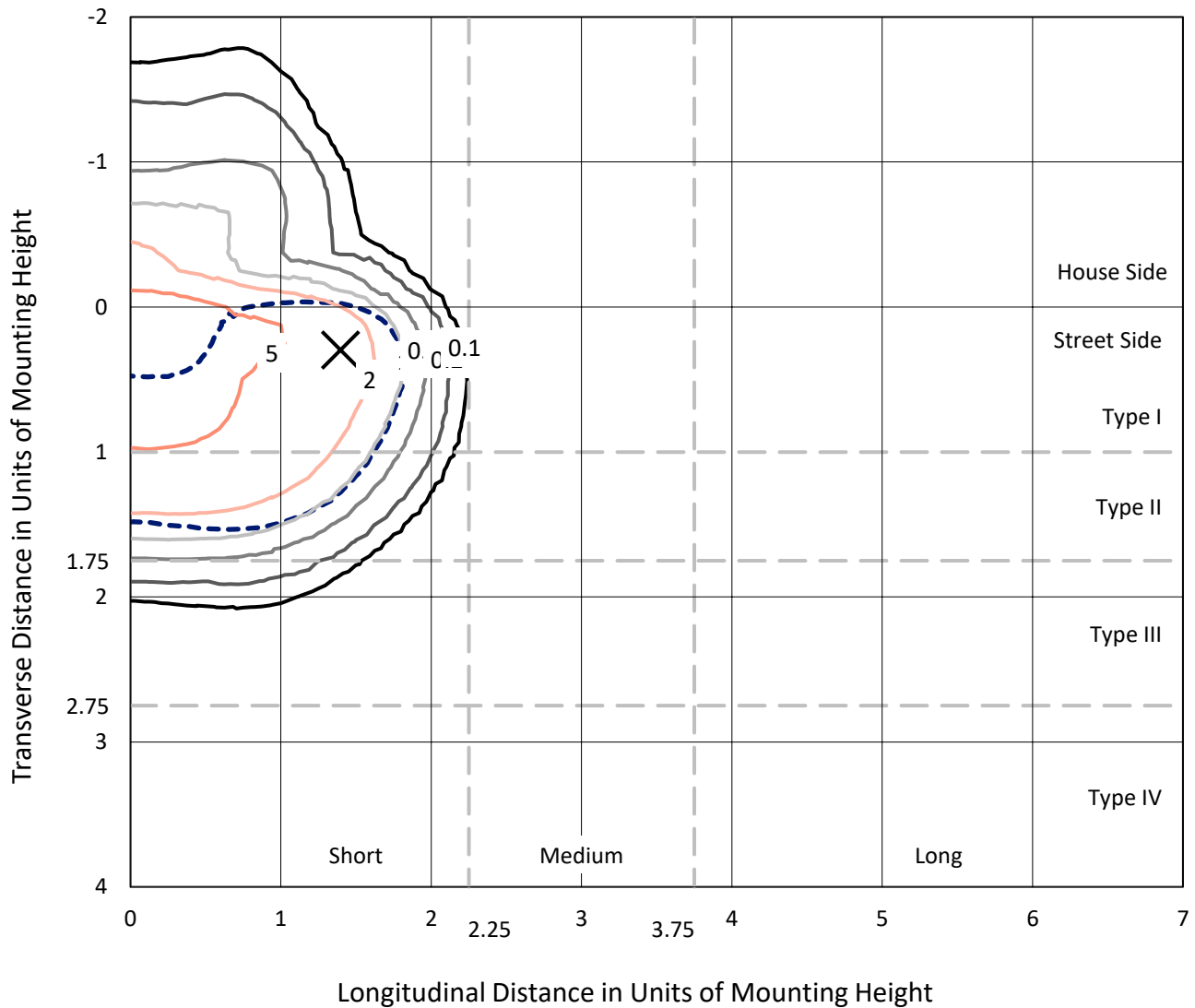


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

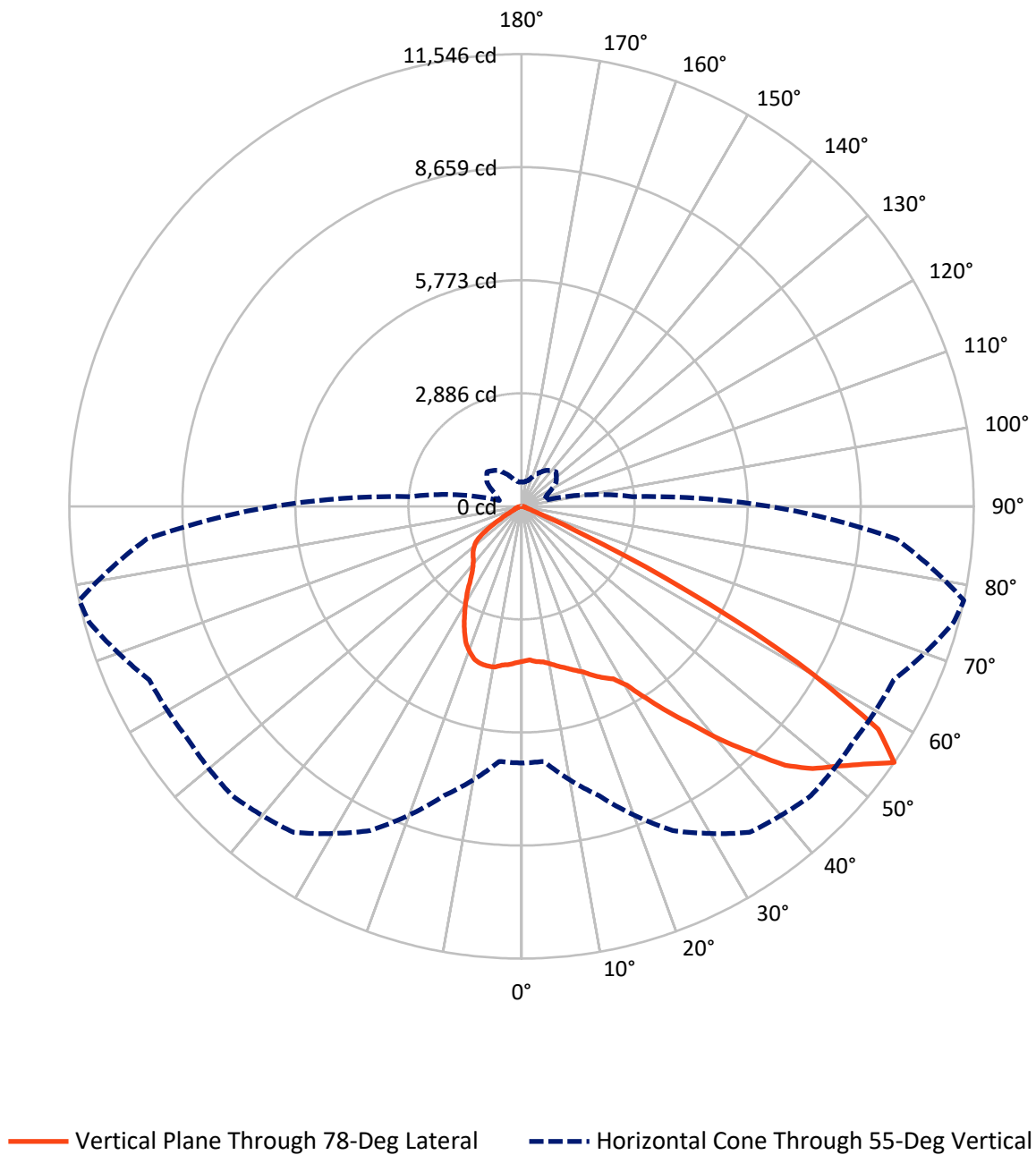


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2859.3	0.0	2859.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	12534.7	0.0	12534.7
	% Fixture	81.4	0.0	81.4
Total	Lumens	15394.0	0.0	15394.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.9	2.3
10°-20°	934.0	6.1
20°-30°	1637.1	10.6
30°-40°	2699.4	17.5
40°-50°	3927.9	25.5
50°-60°	4450.8	28.9
60°-70°	1272.6	8.3
70°-80°	98.8	0.6
80°-90°	20.6	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°	15394.0	100.0
0°-180°	15394.0	100.0

Coefficient of Utilization



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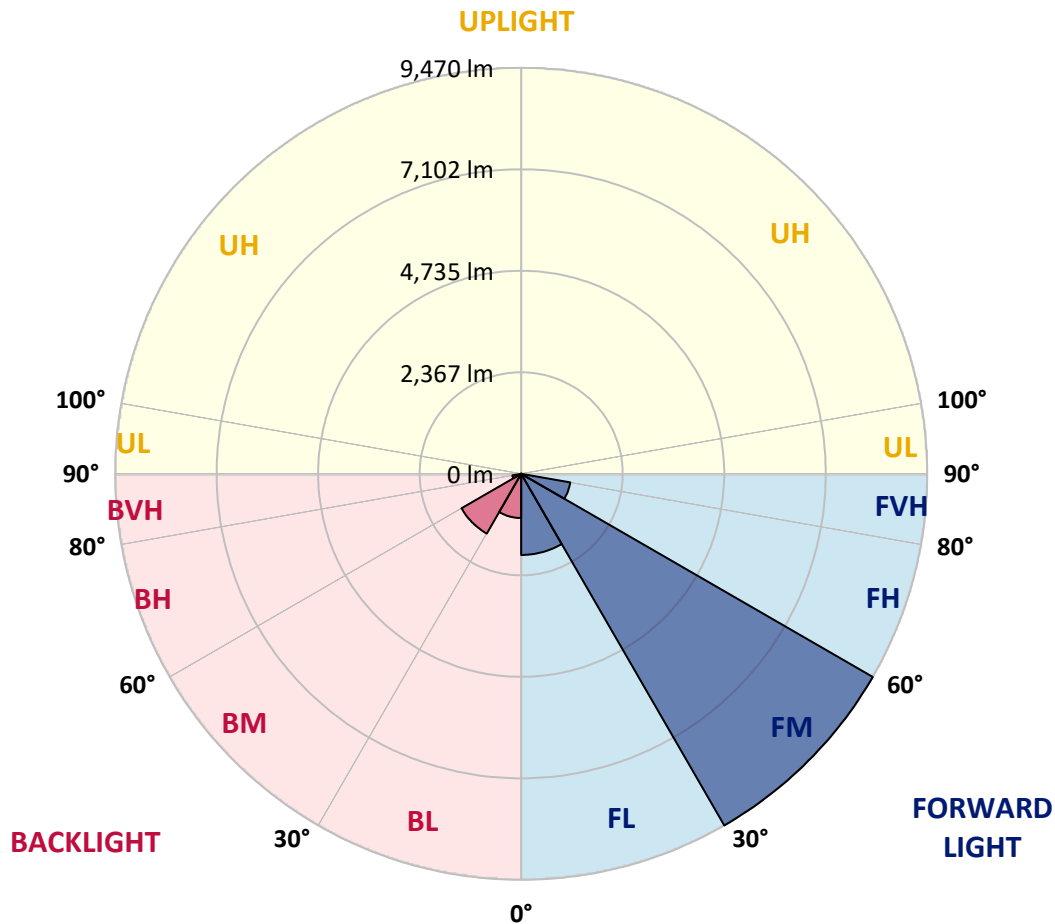
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1892.4	12.3			
FM	(30°-60°)	9469.7	61.5			
FH	(60°-80°)	1162.7	7.6			G1/1800
FVH	(80°-90°)	10.0	0.1			G1/100
BL	(0°-30°)	1031.6	6.7	B3/2500		
BM	(30°-60°)	1608.4	10.4	B2/2500		
BH	(60°-80°)	208.7	1.4	B1/500		G1/500
BVH	(80°-90°)	10.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8
2.5°	3721.1	3756.9	3762.4	3806.4	3803.7	3878.0	3900.0	3902.8	3952.3	3927.5	3990.8
5°	3616.5	3597.3	3589.0	3666.1	3688.1	3754.1	3809.2	3842.2	3944.0	3979.8	4045.9
7.5°	3522.9	3522.9	3528.4	3597.3	3589.0	3674.3	3732.1	3834.0	3982.6	4012.9	4092.7
10°	3432.1	3399.1	3440.4	3511.9	3572.5	3611.0	3732.1	3828.4	4001.8	4089.9	4200.0
12.5°	3385.3	3401.8	3407.3	3459.6	3525.7	3641.3	3707.3	3867.0	4139.5	4191.8	4310.1
15°	3679.8	3646.8	3567.0	3520.2	3575.2	3630.3	3795.4	3957.8	4211.0	4285.3	4417.4
17.5°	4021.1	3993.6	3927.5	3800.9	3677.1	3778.9	3908.3	4056.9	4288.1	4398.2	4593.6
20°	4467.0	4422.9	4356.9	4109.2	4001.8	3891.8	4029.4	4205.5	4414.7	4513.8	4714.7
22.5°	4998.2	4998.2	4849.6	4549.6	4326.6	4222.0	4279.8	4381.7	4555.1	4689.9	4888.1
25°	5551.4	5534.9	5400.0	5089.0	4711.9	4588.1	4654.1	4725.7	4772.5	4846.8	4978.9
27.5°	6184.4	6088.1	5917.4	5573.4	5240.4	5000.9	5072.5	5009.2	4951.4	4989.9	5179.8
30°	6613.8	6674.3	6456.9	6126.6	5812.9	5545.9	5559.6	5504.6	5240.4	5295.4	5408.3
32.5°	7059.6	7098.2	6977.1	6795.4	6481.7	6170.7	6057.8	6011.0	5812.9	5837.6	5727.5
35°	7431.2	7505.5	7398.2	7318.4	7227.5	6977.1	6666.1	6817.4	6498.2	6437.6	6151.4
37.5°	7772.5	7750.5	7877.1	7794.5	7775.2	7599.1	7257.8	7288.1	7073.4	7059.6	6729.4
40°	8078.0	8083.5	8256.9	8295.4	8218.4	7904.6	7409.2	7648.6	7822.0	7838.5	7414.7
42.5°	8331.2	8405.5	8554.1	8865.2	8749.6	8226.6	7566.1	7827.5	8471.6	8573.4	8064.2
45°	8551.4	8702.8	8887.2	9165.2	9099.1	8683.5	7956.9	8196.3	9165.2	9432.1	8675.2
47.5°	8565.2	8763.3	8964.2	9377.1	9459.7	8928.5	8361.5	8779.8	9715.6	10004.6	9121.1
50°	8510.1	8614.7	9016.5	9465.2	9652.3	9327.5	8928.5	9269.7	10249.6	10431.2	9346.8
52.5°	7857.8	7937.6	8744.1	9547.7	9999.1	9778.9	9679.8	9952.3	10794.5	10929.4	9558.7
55°	6550.5	6536.7	7645.9	9132.1	10158.7	10447.7	10387.2	10483.5	11424.8	11545.9	9611.0
57.5°	4480.7	4731.2	5689.0	7604.6	9181.7	10290.8	10354.2	10194.5	10689.9	10736.7	8378.0
60°	2416.5	2521.1	3291.8	5075.2	6990.8	8386.3	8551.4	8262.4	8223.9	8091.8	5980.7
62.5°	960.6	1012.8	1450.5	2512.8	3809.2	5097.3	5452.3	5334.0	5080.7	4734.0	3096.3
65°	456.9	489.9	721.1	1175.2	1689.9	2124.8	2479.8	2589.9	1910.1	1720.2	1021.1
67.5°	311.0	335.8	525.7	671.6	602.8	630.3	820.2	762.4	448.6	382.6	283.5
70°	236.7	253.2	421.1	456.9	269.7	189.9	211.9	198.2	184.4	187.2	184.4
72.5°	167.9	181.7	308.3	269.7	118.3	88.1	112.8	134.9	134.9	134.9	132.1
75°	101.8	115.6	178.9	104.6	46.8	46.8	71.6	90.8	96.3	99.1	93.6
77.5°	52.3	66.1	60.6	30.3	30.3	35.8	52.3	63.3	68.8	68.8	66.1
80°	11.0	11.0	11.0	16.5	30.3	38.5	52.3	57.8	66.1	66.1	60.6
82.5°	0.0	2.8	8.3	16.5	27.5	35.8	49.5	57.8	66.1	68.8	63.3
85°	0.0	2.8	5.5	11.0	19.3	22.0	19.3	16.5	16.5	16.5	16.5
87.5°	0.0	0.0	2.8	2.8	2.8	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°	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8	3957.8
2.5°	3996.3	4004.6	3990.8	3988.1	3977.1	4010.1	3930.3	3911.0	3960.6	3913.8	3924.8
5°	4048.6	4067.9	4043.1	4001.8	3941.3	3847.7	3767.9	3663.3	3613.8	3578.0	3572.5
7.5°	4087.2	4100.9	4076.2	3944.0	3762.4	3525.7	3349.5	3220.2	3118.4	3088.1	3038.5
10°	4244.0	4246.8	4122.9	3831.2	3476.2	3165.1	2895.4	2697.3	2595.4	2532.1	2504.6
12.5°	4348.6	4343.1	4092.7	3608.3	3134.9	2722.0	2413.8	2174.3	2080.7	2050.5	2031.2
15°	4480.7	4450.5	4021.1	3379.8	2694.5	2248.6	1970.6	1805.5	1797.3	1778.0	1797.3
17.5°	4585.3	4500.0	3916.5	2964.2	2273.4	1852.3	1670.6	1681.7	1703.7	1722.9	1725.7
20°	4756.0	4579.8	3677.1	2600.9	1882.6	1588.1	1585.3	1634.9	1689.9	1711.9	1733.9
22.5°	4885.3	4612.9	3421.1	2212.8	1563.3	1480.7	1527.5	1601.8	1643.1	1665.1	1698.2
25°	4932.1	4522.0	3079.8	1824.8	1409.2	1431.2	1502.8	1552.3	1604.6	1629.4	1615.6
27.5°	4978.9	4475.2	2672.5	1502.8	1326.6	1398.2	1458.7	1508.3	1524.8	1557.8	1579.8
30°	5091.8	4312.9	2306.4	1299.1	1285.3	1376.1	1420.2	1436.7	1480.7	1500.0	1500.0
32.5°	5182.6	4249.6	1918.4	1202.8	1279.8	1387.2	1392.7	1392.7	1398.2	1384.4	1378.9
35°	5369.7	4032.1	1571.6	1145.0	1277.1	1389.9	1403.7	1356.9	1230.3	1180.7	1167.0
37.5°	5600.9	3891.8	1315.6	1131.2	1296.3	1422.9	1445.0	1268.8	1103.7	1023.9	1010.1
40°	5881.7	3792.7	1147.7	1125.7	1340.4	1500.0	1433.9	1200.0	985.3	869.7	864.2
42.5°	6209.2	3701.8	1034.9	1122.9	1395.4	1579.8	1422.9	1142.2	864.2	787.2	798.2
45°	6470.7	3652.3	957.8	1103.7	1414.7	1626.6	1431.2	1040.4	814.7	765.1	770.6
47.5°	6674.3	3547.7	894.5	1070.6	1411.9	1643.1	1356.9	999.1	789.9	803.7	817.4
50°	6679.8	3407.3	814.7	999.1	1370.6	1612.8	1271.6	960.6	784.4	842.2	869.7
52.5°	6605.5	3209.2	729.4	897.2	1274.3	1508.3	1194.5	944.0	759.6	754.1	787.2
55°	6341.3	2837.6	586.2	726.6	1076.1	1244.0	1125.7	913.8	685.3	622.0	627.5
57.5°	5124.8	2033.9	432.1	520.2	762.4	911.0	1015.6	900.0	616.5	528.4	531.2
60°	3173.4	1153.2	316.5	355.0	470.6	553.2	822.9	836.7	550.5	445.9	440.4
62.5°	1629.4	569.7	245.0	250.5	289.0	324.8	564.2	701.8	498.2	423.9	423.9
65°	545.0	280.7	214.7	192.7	192.7	200.9	341.3	487.2	421.1	355.0	355.0
67.5°	233.9	209.2	187.2	167.9	154.1	145.9	192.7	283.5	313.8	269.7	258.7
70°	181.7	176.1	162.4	140.4	121.1	110.1	112.8	145.9	178.9	173.4	167.9
72.5°	134.9	134.9	129.4	110.1	93.6	79.8	74.3	77.1	85.3	88.1	90.8
75°	93.6	96.3	96.3	85.3	68.8	57.8	49.5	41.3	33.0	27.5	24.8
77.5°	63.3	66.1	71.6	63.3	52.3	38.5	30.3	22.0	13.8	5.5	5.5
80°	55.0	63.3	68.8	63.3	55.0	41.3	30.3	16.5	8.3	0.0	0.0
82.5°	57.8	63.3	71.6	60.6	52.3	38.5	30.3	19.3	8.3	2.8	0.0
85°	13.8	13.8	16.5	19.3	24.8	27.5	22.0	13.8	8.3	2.8	0.0
87.5°	5.5	5.5	5.5	5.5	5.5	2.8	2.8	2.8	2.8	0.0	0.0
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)