

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: P459505

Luminaire Tested: **GALN-SA9C-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459505
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48591 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

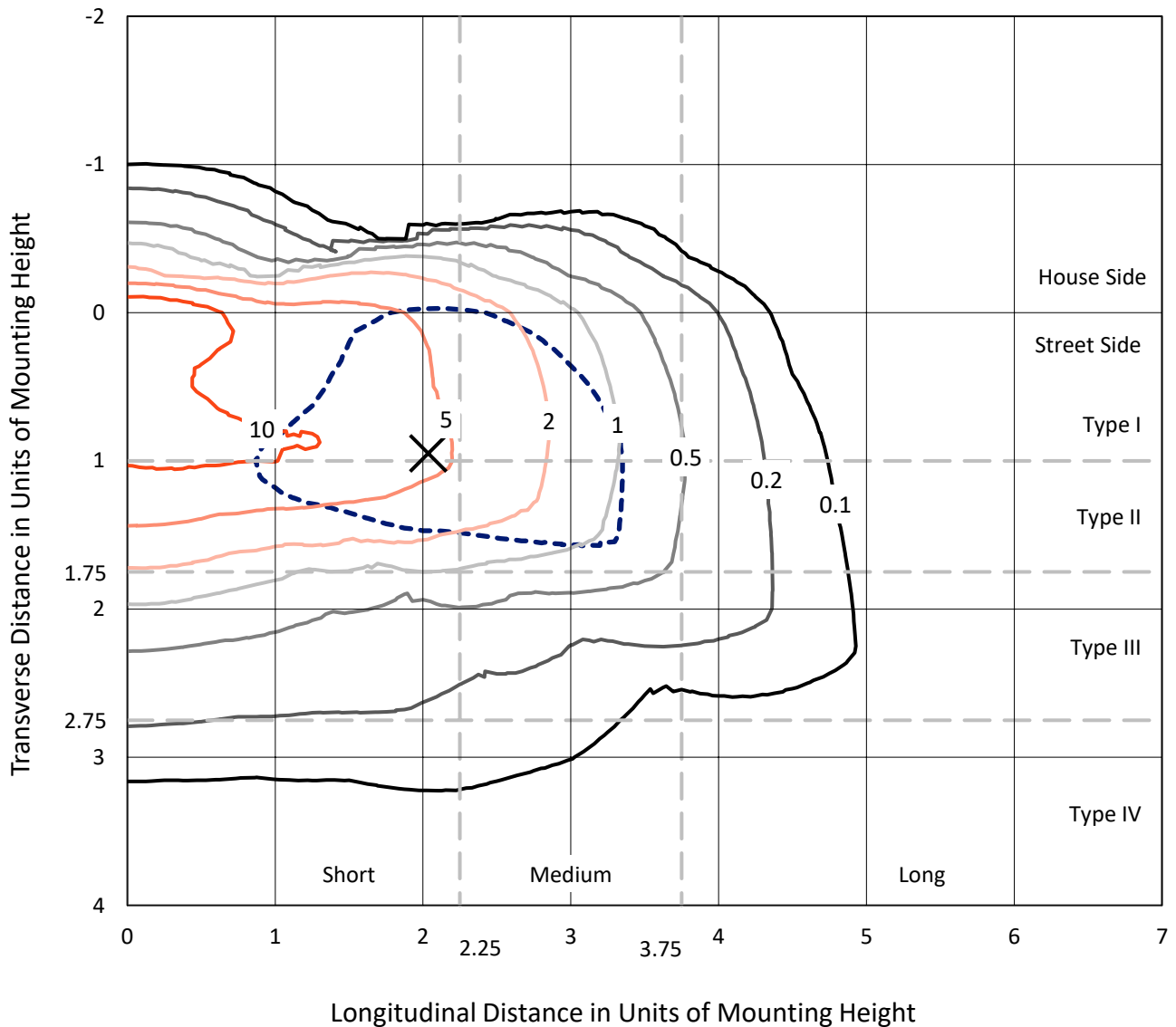
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

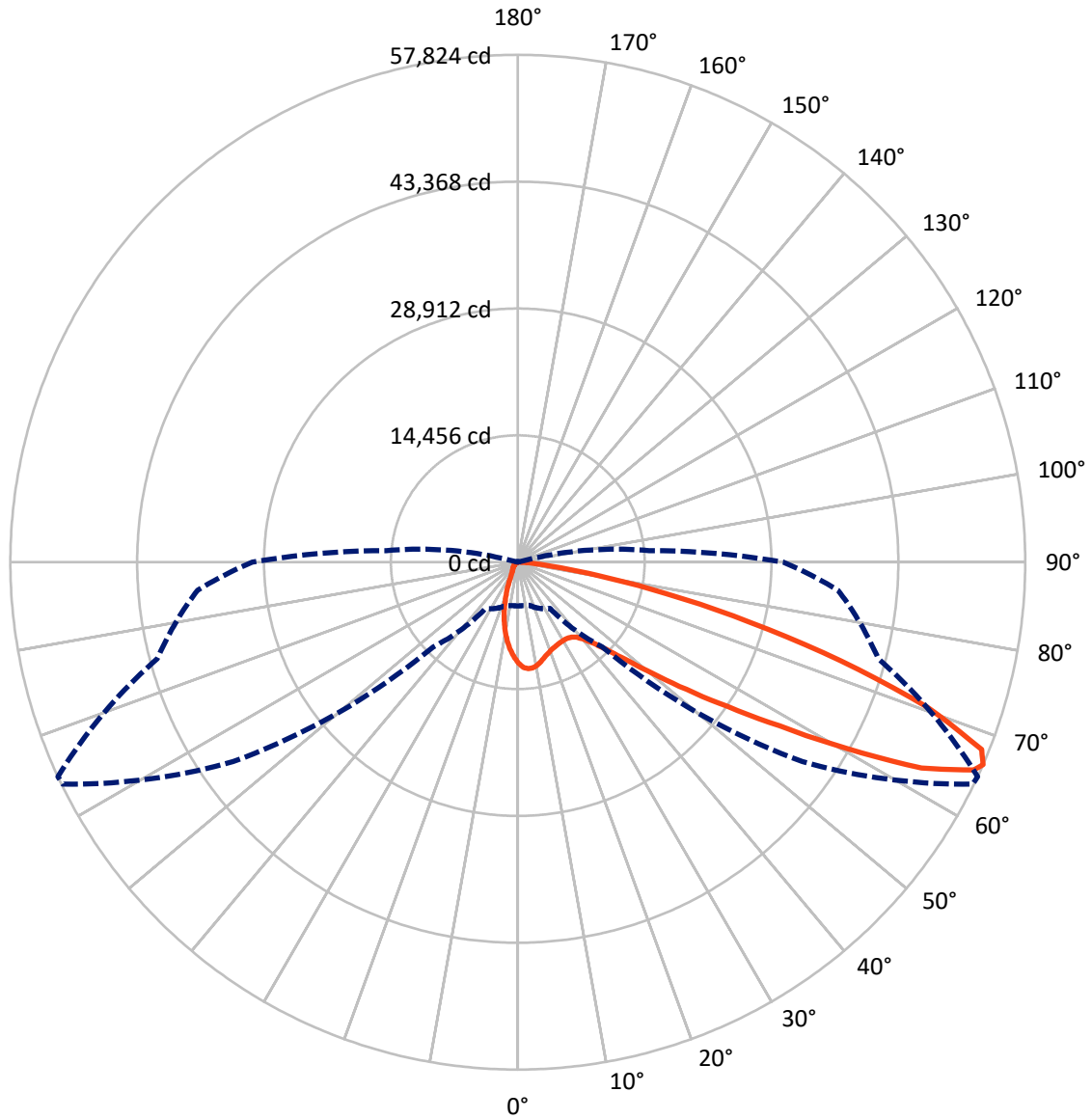
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5025.0	0.0	5025.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	43566.0	0.0	43566.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	48591.0	0.0	48591.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.4	1.9
10°-20°	2053.3	4.2
20°-30°	2941.4	6.1
30°-40°	4296.1	8.8
40°-50°	7203.8	14.8
50°-60°	12022.1	24.7
60°-70°	12761.1	26.3
70°-80°	5779.4	11.9
80°-90°	591.4	1.2
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°	48591.0	100.0
0°-180°	48591.0	100.0

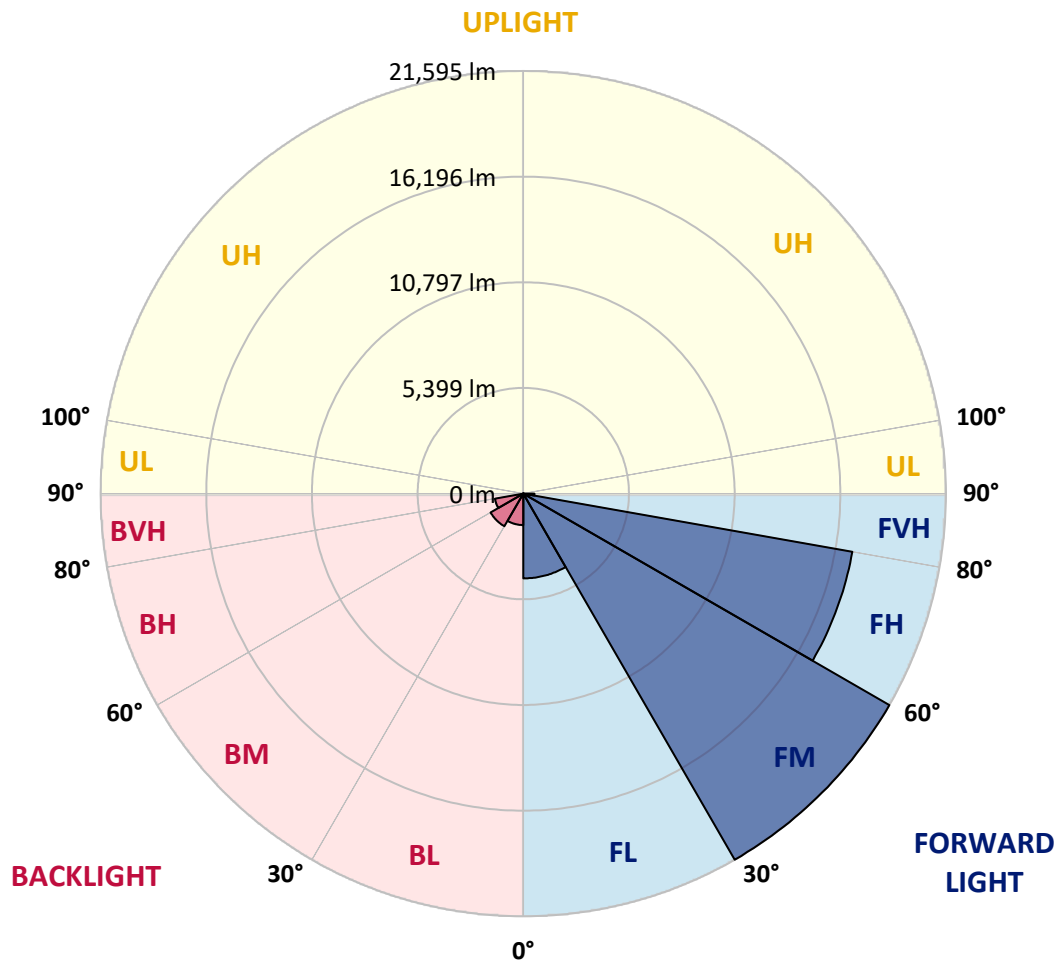


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4329.6	8.9			
FM (30°-60°)	21594.9	44.4			
FH (60°-80°)	17068.9	35.1			G5
FVH (80°-90°)	572.5	1.2			G4/750
BL (0°-30°)	1607.4	3.3	B3/2500		
BM (30°-60°)	1927.1	4.0	B2/2500		
BH (60°-80°)	1471.6	3.0	B3/2500		G3/2500
BVH (80°-90°)	18.8	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7
2.5°	12143.0	12156.1	12172.5	12195.5	12211.9	12162.7	12093.8	12015.0	11998.6	11831.2	11627.7
5°	11493.2	11512.9	11657.3	11736.0	11913.3	12074.1	12175.8	12188.9	12182.4	12024.8	11699.9
7.5°	10567.7	10623.5	10764.6	10902.4	11233.9	11539.1	11900.1	12152.8	12169.3	12126.6	11722.9
10°	9816.1	9852.2	9924.4	10196.8	10472.5	10938.5	11444.0	11919.8	11959.2	12129.9	11703.2
12.5°	9228.7	9281.2	9369.8	9579.8	9911.3	10351.1	10925.4	11565.4	11647.4	12067.5	11647.4
15°	8818.4	8844.7	8933.3	9140.1	9461.7	9868.6	10449.5	11194.5	11266.7	11985.5	11637.6
17.5°	8624.8	8654.3	8716.7	8880.8	9146.6	9524.0	10091.8	10895.9	10987.8	11933.0	11673.7
20°	8677.3	8703.6	8706.9	8792.2	8972.7	9291.0	9829.3	10616.9	10735.1	11900.1	11732.8
22.5°	8976.0	8979.3	8939.9	8900.5	8962.8	9192.6	9668.4	10439.7	10561.1	11893.6	11801.7
25°	9422.3	9432.2	9366.5	9228.7	9104.0	9222.1	9632.3	10324.8	10433.1	11877.2	11844.3
27.5°	10039.3	10036.0	10016.3	9786.6	9432.2	9353.4	9661.9	10262.5	10354.4	11831.2	11860.8
30°	10902.4	10876.2	10833.5	10574.3	10032.7	9671.7	9786.6	10223.1	10308.4	11765.6	11818.1
32.5°	11752.5	11850.9	11844.3	11598.2	10922.1	10239.5	10045.9	10275.6	10338.0	11722.9	11755.7
35°	12743.6	12740.3	12993.0	12901.1	12110.2	10964.8	10488.9	10449.5	10498.8	11752.5	11726.2
37.5°	13662.5	13747.8	14141.7	14236.8	13514.8	11988.7	11115.8	10823.7	10840.1	11952.6	11798.4
40°	14807.9	14972.0	15559.4	15877.8	15241.1	13508.3	12041.3	11509.6	11512.9	12444.9	12070.8
42.5°	16284.7	16544.0	17092.1	17623.8	17282.4	15306.7	13429.5	12595.9	12589.3	13311.3	12694.4
45°	18079.9	18260.4	18884.0	19727.4	19510.8	17817.4	15451.1	14279.5	14194.2	14732.4	13800.4
47.5°	19629.0	19875.1	20508.5	21470.1	22454.7	20882.7	17866.6	16593.2	16537.4	16993.6	15697.3
50°	20305.1	20521.7	21187.9	22536.7	24922.7	24906.3	21463.6	19970.3	19875.1	20121.3	18631.3
52.5°	19563.4	19766.8	20439.6	22119.9	26084.5	29809.4	26675.2	24207.2	24092.4	23777.3	22136.4
55°	17023.2	17190.5	18185.0	20114.7	25638.1	33078.2	33856.0	29441.8	28995.5	27771.4	26104.2
57.5°	13554.2	13468.9	14085.9	16327.4	23019.2	34174.3	41227.1	35963.0	35165.5	31223.9	29461.5
60°	9392.8	9655.3	9904.7	11381.6	17308.7	32274.1	45811.9	44161.1	43110.9	34620.7	32677.8
62.5°	6905.1	7079.0	7243.1	7925.8	10882.7	25769.4	46622.5	52582.5	51650.4	38227.5	35746.4
65°	5461.1	5474.2	5539.8	6212.6	7170.9	16757.3	42726.9	57331.3	57091.8	41699.7	36990.2
66°	4975.3	4978.6	5080.4	5802.4	6435.8	13646.1	39605.9	57692.4	57823.6	42533.3	36625.9
67.5°	4348.5	4335.4	4483.1	5214.9	5861.5	9839.1	34020.1	56228.6	57006.4	43173.3	35316.4
70°	3370.5	3354.1	3534.6	4374.8	5398.7	6563.8	22612.2	48279.9	49533.6	41863.8	31246.9
72.5°	2244.8	2257.9	2566.4	3452.5	5152.6	5779.4	13603.4	36727.6	38499.9	34571.4	24581.4
75°	1309.5	1332.4	1683.6	2566.4	4473.2	5510.3	7699.3	26189.5	27321.7	23872.5	15313.3
77.5°	685.9	695.8	941.9	1693.5	3429.6	5116.5	5129.6	16731.1	17262.7	11601.5	6061.7
80°	364.3	354.4	505.4	1020.7	2359.7	4492.9	4161.4	8857.8	9209.0	3446.0	1532.6
82.5°	137.8	151.0	269.1	669.5	1394.8	3226.1	3583.8	3915.3	3793.9	758.1	643.3
85°	26.3	32.8	114.9	397.1	702.3	1348.9	2641.9	1919.9	1778.8	285.5	370.9
87.5°	3.3	6.6	32.8	95.2	101.7	456.2	781.1	531.7	459.5	105.0	154.2
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°	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7	11522.7
2.5°	11529.3	11440.7	11145.3	10853.2	10554.6	10285.4	10101.7	9803.0	9727.5	9619.2	9556.9
5°	11506.3	11299.5	10731.8	10111.5	9533.9	8910.3	8434.5	7975.0	7728.9	7604.1	7558.2
7.5°	11440.7	11112.5	10226.4	9254.9	8329.4	7397.4	6586.8	5969.8	5572.7	5300.3	5116.5
10°	11309.4	10856.5	9638.9	8303.2	6905.1	5674.4	4647.2	3866.1	3262.2	3071.8	3078.4
12.5°	11174.8	10571.0	8982.5	7246.4	5513.6	3961.2	2871.7	2254.7	1965.9	1870.7	1851.0
15°	11050.1	10298.6	8339.3	6222.5	4105.6	2566.4	1851.0	1634.4	1555.6	1539.2	1535.9
17.5°	10984.5	10045.9	7653.4	5050.8	2865.1	1742.7	1483.4	1424.3	1401.4	1385.0	1378.4
20°	10928.7	9826.0	6997.0	3954.7	1959.3	1427.6	1329.2	1273.4	1234.0	1217.6	1207.7
22.5°	10889.3	9599.5	6317.6	3062.0	1499.8	1266.8	1178.2	1106.0	1050.2	1030.5	1017.4
25°	10830.2	9350.1	5631.7	2238.2	1263.5	1125.7	1023.9	938.6	866.4	830.3	823.8
27.5°	10744.9	9067.9	4880.2	1657.4	1129.0	1001.0	876.3	771.2	699.0	659.7	662.9
30°	10607.1	8772.5	4128.6	1316.0	1020.7	873.0	738.4	636.7	567.8	538.2	534.9
32.5°	10443.0	8414.8	3439.4	1129.0	922.2	758.1	617.0	528.4	475.9	452.9	449.6
35°	10288.7	8053.8	2737.1	1014.1	820.5	653.1	518.5	443.1	403.7	384.0	387.3
37.5°	10203.4	7732.1	2133.2	922.2	738.4	561.2	446.3	380.7	344.6	328.2	324.9
40°	10259.2	7469.6	1696.7	840.2	646.5	482.4	384.0	328.2	292.1	269.1	269.1
42.5°	10521.7	7354.7	1368.5	761.4	561.2	416.8	334.8	282.2	242.9	219.9	223.2
45°	11322.5	7476.1	1145.4	689.2	482.4	361.0	288.8	233.0	196.9	180.5	177.2
47.5°	12651.7	7932.3	991.1	613.7	413.5	308.5	242.9	193.6	157.5	144.4	141.1
50°	14975.3	8874.2	876.3	538.2	351.2	262.6	200.2	154.2	124.7	111.6	111.6
52.5°	18171.8	10928.7	794.2	452.9	295.4	223.2	164.1	124.7	98.5	88.6	85.3
55°	21512.8	13094.7	751.6	380.7	246.1	183.8	131.3	98.5	75.5	65.6	62.4
57.5°	24725.8	14794.8	702.3	308.5	196.9	141.1	101.7	75.5	52.5	45.9	42.7
60°	27807.5	16169.9	597.3	246.1	154.2	101.7	75.5	52.5	36.1	29.5	29.5
62.5°	30564.2	16970.7	469.3	196.9	118.1	72.2	49.2	39.4	26.3	19.7	19.7
65°	30885.9	15930.3	354.4	151.0	85.3	45.9	29.5	29.5	19.7	13.1	13.1
66°	30239.3	15047.5	311.8	137.8	75.5	39.4	26.3	23.0	16.4	9.8	9.8
67.5°	28795.3	13541.1	269.1	118.1	62.4	29.5	19.7	19.7	13.1	6.6	6.6
70°	24880.0	11060.0	213.3	88.6	45.9	23.0	13.1	13.1	9.8	6.6	6.6
72.5°	18962.8	8257.2	173.9	65.6	32.8	16.4	9.8	9.8	9.8	6.6	6.6
75°	11437.4	4447.0	134.6	49.2	29.5	13.1	6.6	9.8	13.1	9.8	6.6
77.5°	4213.9	1513.0	105.0	39.4	23.0	13.1	6.6	6.6	13.1	9.8	9.8
80°	1033.8	393.8	75.5	32.8	23.0	13.1	6.6	6.6	13.1	13.1	13.1
82.5°	479.2	167.4	52.5	29.5	23.0	13.1	6.6	6.6	9.8	13.1	13.1
85°	275.7	78.8	42.7	32.8	23.0	13.1	6.6	6.6	9.8	13.1	13.1
87.5°	111.6	39.4	39.4	32.8	26.3	16.4	6.6	6.6	6.6	9.8	9.8
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)