

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: P459302

Luminaire Tested: **GALN-SA7D-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459302
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-SA7D-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA 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: 41080 lumens
Efficiency: N/A
Efficacy: 94.9 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

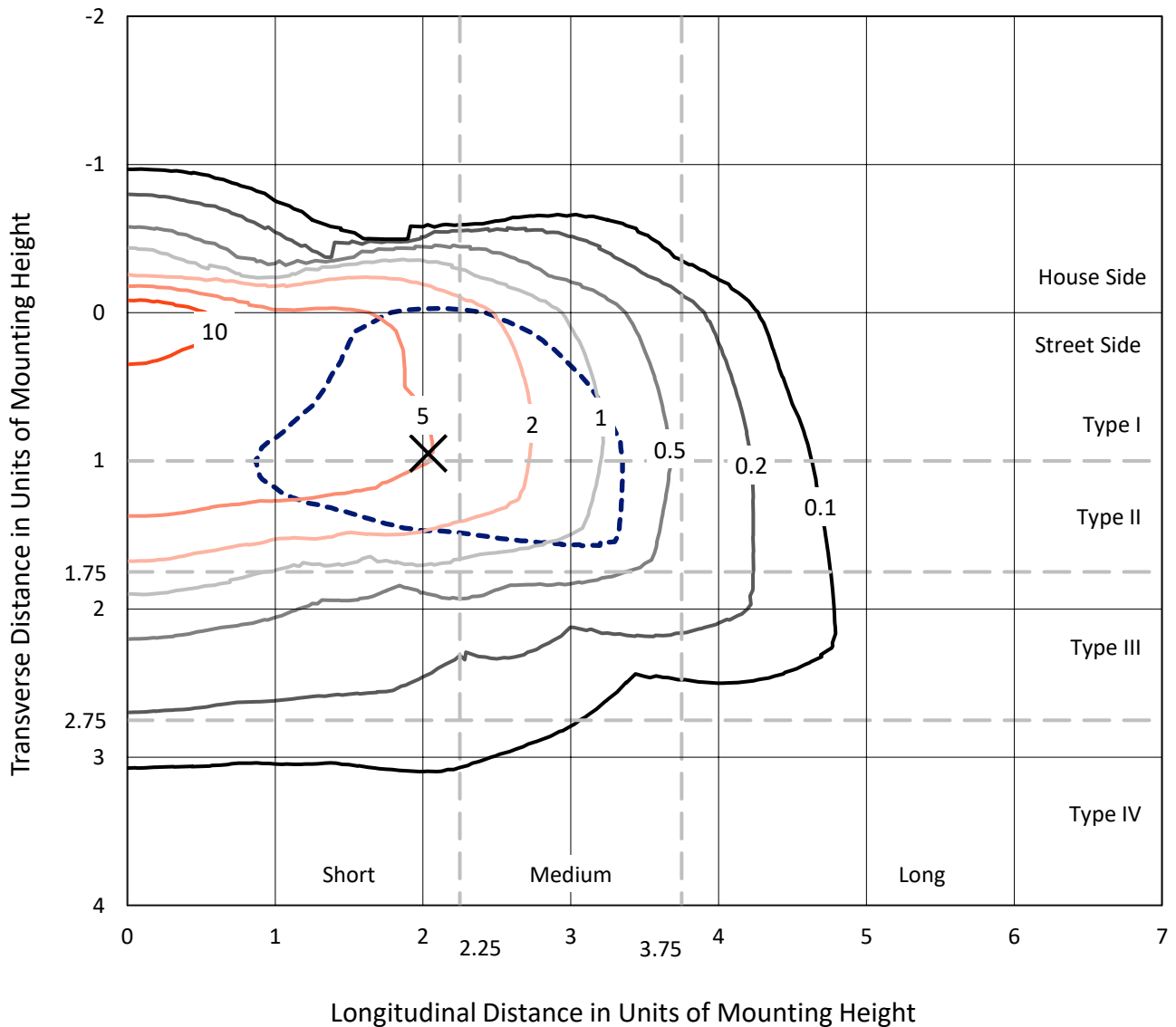
Input Watts (W): 433
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

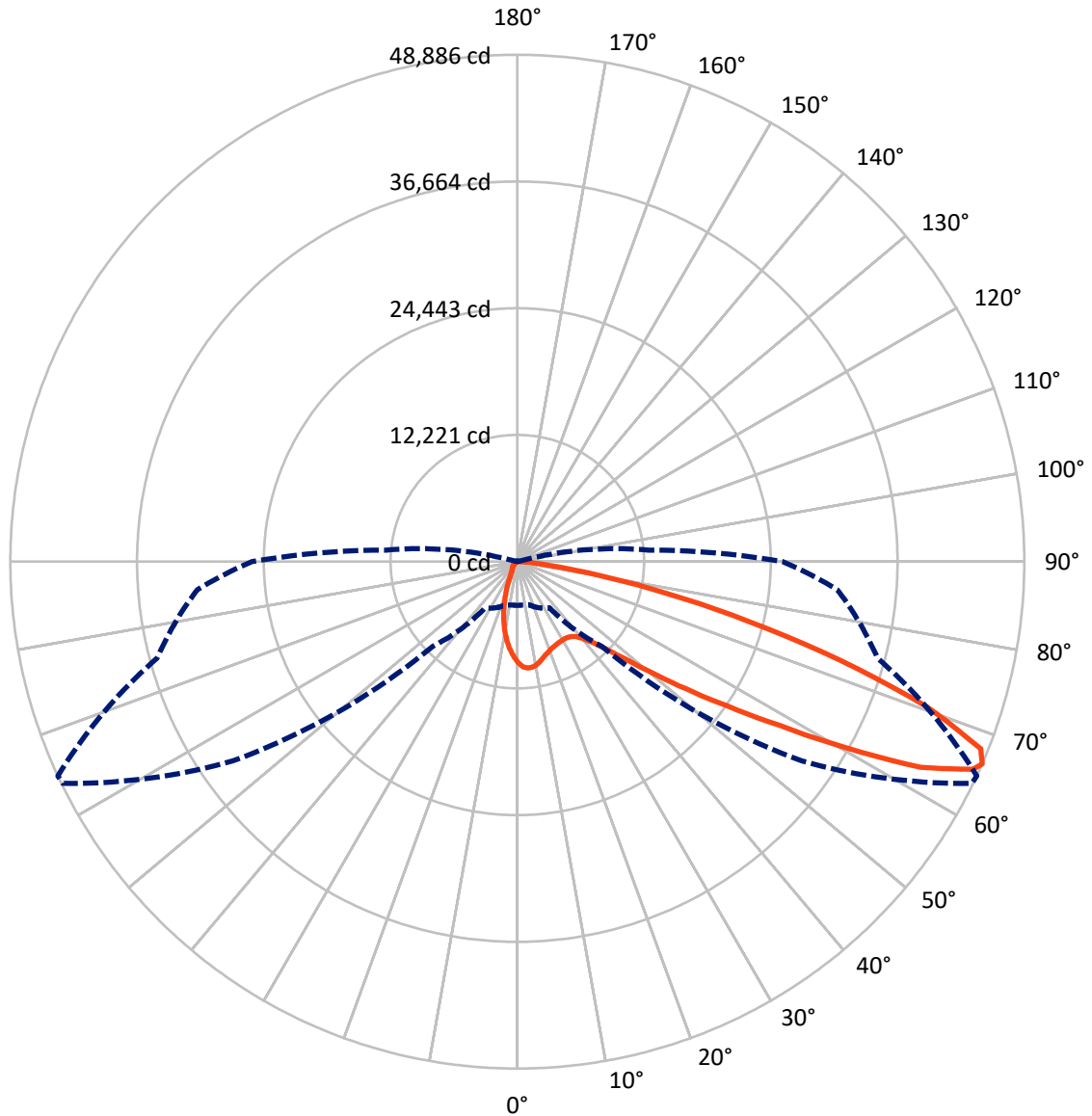
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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	4248.2	0.0	4248.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	36831.7	0.0	36831.7
	% Fixture	89.7	0.0	89.7
Total	Lumens	41080.0	0.0	41080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.7	1.9
10°-20°	1735.9	4.2
20°-30°	2486.7	6.1
30°-40°	3632.1	8.8
40°-50°	6090.3	14.8
50°-60°	10163.8	24.7
60°-70°	10788.5	26.3
70°-80°	4886.1	11.9
80°-90°	499.9	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°	41080.0	100.0
0°-180°	41080.0	100.0

Coefficient of Utilization

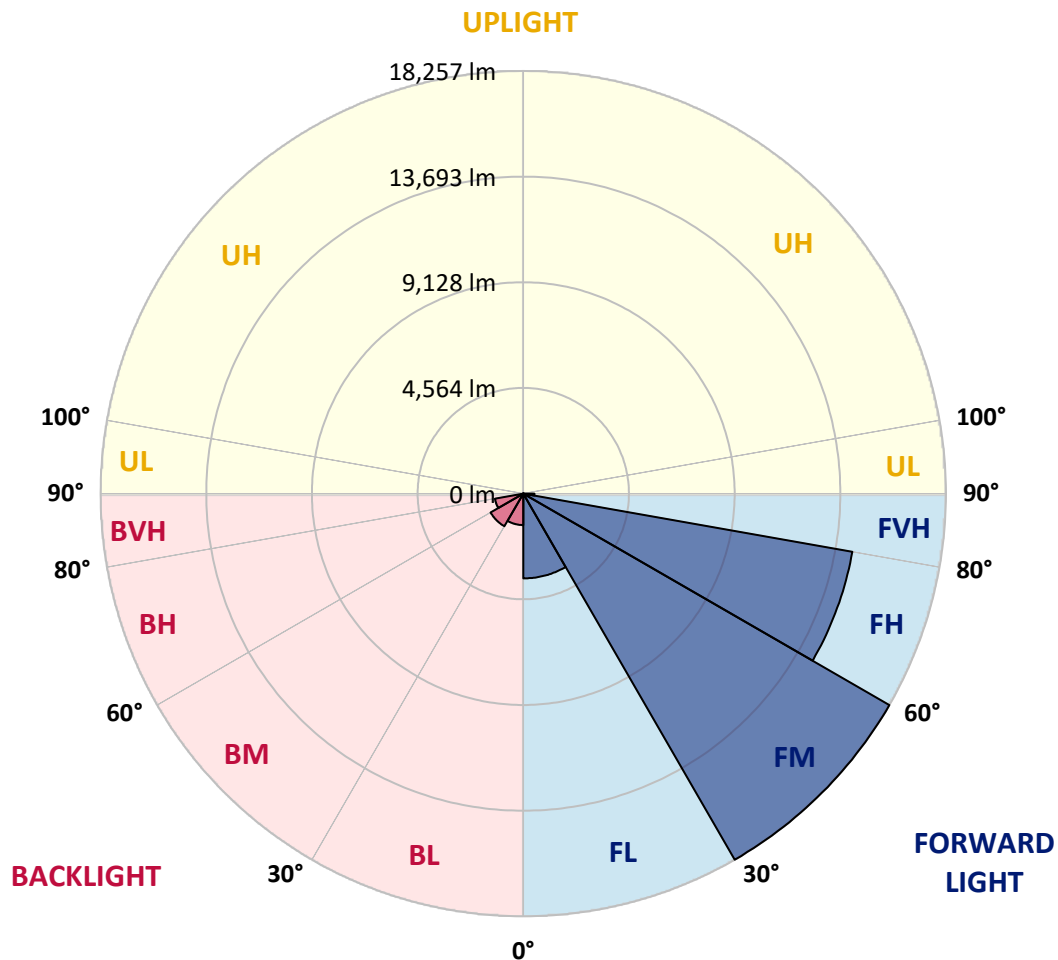


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3660.4	8.9			
FM (30°-60°)	18256.9	44.4			
FH (60°-80°)	14430.5	35.1			G5
FVH (80°-90°)	484.0	1.2			G3/500
BL (0°-30°)	1359.0	3.3	B3/2500		
BM (30°-60°)	1629.2	4.0	B2/2500		
BH (60°-80°)	1244.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	15.9	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°	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6
2.5°	10266.0	10277.1	10291.0	10310.4	10324.2	10282.6	10224.4	10157.8	10143.9	10002.4	9830.4
5°	9716.6	9733.3	9855.3	9921.9	10071.8	10207.7	10293.7	10304.8	10299.3	10166.1	9891.4
7.5°	8934.2	8981.3	9100.7	9217.2	9497.4	9755.5	10060.7	10274.3	10288.2	10252.1	9910.8
10°	8298.8	8329.3	8390.4	8620.6	8853.7	9247.7	9675.0	10077.3	10110.6	10254.9	9894.2
12.5°	7802.1	7846.5	7921.5	8099.0	8379.3	8751.1	9236.6	9777.7	9847.0	10202.2	9847.0
15°	7455.3	7477.5	7552.4	7727.2	7999.1	8343.2	8834.3	9464.1	9525.2	10132.8	9838.7
17.5°	7291.6	7316.6	7369.3	7508.0	7732.8	8051.9	8531.9	9211.6	9289.3	10088.4	9869.2
20°	7336.0	7358.2	7361.0	7433.1	7585.7	7854.9	8309.9	8975.8	9075.7	10060.7	9919.2
22.5°	7588.5	7591.3	7558.0	7524.7	7577.4	7771.6	8173.9	8826.0	8928.6	10055.1	9977.4
25°	7965.8	7974.2	7918.7	7802.1	7696.7	7796.6	8143.4	8728.9	8820.4	10041.2	10013.5
27.5°	8487.5	8484.7	8468.0	8273.8	7974.2	7907.6	8168.4	8676.1	8753.8	10002.4	10027.4
30°	9217.2	9195.0	9158.9	8939.7	8481.9	8176.7	8273.8	8642.8	8715.0	9946.9	9991.3
32.5°	9935.8	10019.0	10013.5	9805.4	9233.8	8656.7	8493.0	8687.2	8740.0	9910.8	9938.6
35°	10773.7	10771.0	10984.6	10906.9	10238.2	9269.9	8867.6	8834.3	8875.9	9935.8	9913.6
37.5°	11550.6	11622.8	11955.7	12036.2	11425.8	10135.6	9397.5	9150.6	9164.5	10105.1	9974.6
40°	12518.9	12657.7	13154.3	13423.5	12885.2	11420.2	10180.0	9730.5	9733.3	10521.2	10204.9
42.5°	13767.5	13986.7	14450.1	14899.5	14611.0	12940.7	11353.6	10648.9	10643.3	11253.7	10732.1
45°	15285.2	15437.8	15965.0	16678.1	16494.9	15063.2	13062.8	12072.2	12000.1	12455.1	11667.1
47.5°	16594.8	16802.9	17338.4	18151.4	18983.7	17654.7	15104.9	14028.3	13981.2	14366.8	13270.9
50°	17166.4	17349.5	17912.7	19053.1	21070.2	21056.4	18145.8	16883.4	16802.9	17011.0	15751.3
52.5°	16539.3	16711.4	17280.1	18700.7	22052.4	25201.6	22551.9	20465.4	20368.3	20101.9	18714.6
55°	14391.8	14533.3	15374.0	17005.5	21675.1	27965.1	28622.7	24890.8	24513.5	23478.6	22069.1
57.5°	11459.1	11386.9	11908.5	13803.6	19461.0	28891.8	34854.4	30403.9	29729.7	26397.4	24907.5
60°	7940.9	8162.8	8373.7	9622.3	14633.2	27285.3	38730.5	37334.9	36447.0	29269.1	27626.6
62.5°	5837.7	5984.8	6123.5	6700.6	9200.5	21786.1	39415.8	44454.5	43666.5	32318.4	30220.8
65°	4616.9	4628.0	4683.5	5252.3	6062.5	14167.1	36122.4	48469.3	48266.8	35253.9	31272.4
66°	4206.3	4209.1	4295.1	4905.5	5441.0	11536.7	33483.7	48774.5	48885.5	35958.7	30964.4
67.5°	3676.3	3665.2	3790.1	4408.8	4955.4	8318.2	28761.4	47537.0	48194.6	36499.7	29857.4
70°	2849.5	2835.6	2988.2	3698.5	4564.2	5549.2	19116.9	40817.0	41876.9	35392.7	26416.9
72.5°	1897.8	1908.9	2169.7	2918.9	4356.1	4886.1	11500.7	31050.4	32548.7	29227.5	20781.7
75°	1107.1	1126.5	1423.4	2169.7	3781.8	4658.5	6509.2	22141.2	23098.5	20182.4	12946.2
77.5°	579.9	588.2	796.3	1431.7	2899.4	4325.6	4336.7	14144.9	14594.3	9808.2	5124.7
80°	308.0	299.7	427.3	862.9	1994.9	3798.4	3518.2	7488.6	7785.5	2913.3	1295.7
82.5°	116.5	127.6	227.5	566.0	1179.2	2727.4	3029.9	3310.1	3207.4	640.9	543.8
85°	22.2	27.7	97.1	335.7	593.8	1140.4	2233.5	1623.1	1503.8	241.4	313.5
87.5°	2.8	5.5	27.7	80.5	86.0	385.7	660.4	449.5	388.4	88.8	130.4
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°	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6	9741.6
2.5°	9747.1	9672.2	9422.5	9175.6	8923.1	8695.6	8540.2	8287.7	8223.9	8132.3	8079.6
5°	9727.7	9552.9	9072.9	8548.5	8060.2	7533.0	7130.7	6742.3	6534.2	6428.7	6389.9
7.5°	9672.2	9394.8	8645.6	7824.3	7041.9	6253.9	5568.6	5047.0	4711.3	4481.0	4325.6
10°	9561.2	9178.3	8149.0	7019.7	5837.7	4797.3	3928.8	3268.5	2757.9	2597.0	2602.6
12.5°	9447.5	8937.0	7594.1	6126.3	4661.3	3348.9	2427.8	1906.1	1662.0	1581.5	1564.9
15°	9342.0	8706.7	7050.2	5260.6	3471.0	2169.7	1564.9	1381.7	1315.2	1301.3	1298.5
17.5°	9286.6	8493.0	6470.3	4270.1	2422.2	1473.3	1254.1	1204.2	1184.7	1170.9	1165.3
20°	9239.4	8307.1	5915.4	3343.4	1656.4	1206.9	1123.7	1076.5	1043.2	1029.4	1021.0
22.5°	9206.1	8115.7	5341.1	2588.7	1268.0	1071.0	996.1	935.0	887.9	871.2	860.1
25°	9156.1	7904.8	4761.2	1892.3	1068.2	951.7	865.7	793.5	732.5	702.0	696.4
27.5°	9084.0	7666.2	4125.8	1401.2	954.5	846.2	740.8	652.0	591.0	557.7	560.5
30°	8967.5	7416.5	3490.4	1112.6	862.9	738.0	624.3	538.3	480.0	455.0	452.3
32.5°	8828.7	7114.0	2907.8	954.5	779.7	640.9	521.6	446.7	402.3	382.9	380.1
35°	8698.3	6808.8	2314.0	857.3	693.6	552.1	438.4	374.6	341.3	324.6	327.4
37.5°	8626.2	6536.9	1803.5	779.7	624.3	474.5	377.3	321.9	291.3	277.5	274.7
40°	8673.4	6315.0	1434.5	710.3	546.6	407.9	324.6	277.5	246.9	227.5	227.5
42.5°	8895.3	6217.9	1157.0	643.7	474.5	352.4	283.0	238.6	205.3	185.9	188.7
45°	9572.3	6320.5	968.3	582.7	407.9	305.2	244.2	197.0	166.5	152.6	149.8
47.5°	10696.0	6706.2	837.9	518.8	349.6	260.8	205.3	163.7	133.2	122.1	119.3
50°	12660.5	7502.5	740.8	455.0	296.9	222.0	169.2	130.4	105.4	94.3	94.3
52.5°	15362.9	9239.4	671.5	382.9	249.7	188.7	138.7	105.4	83.2	74.9	72.1
55°	18187.4	11070.6	635.4	321.9	208.1	155.4	111.0	83.2	63.8	55.5	52.7
57.5°	20903.8	12507.8	593.8	260.8	166.5	119.3	86.0	63.8	44.4	38.8	36.1
60°	23509.1	13670.4	505.0	208.1	130.4	86.0	63.8	44.4	30.5	25.0	25.0
62.5°	25839.8	14347.4	396.8	166.5	99.9	61.0	41.6	33.3	22.2	16.6	16.6
65°	26111.7	13467.9	299.7	127.6	72.1	38.8	25.0	25.0	16.6	11.1	11.1
66°	25565.1	12721.5	263.6	116.5	63.8	33.3	22.2	19.4	13.9	8.3	8.3
67.5°	24344.2	11448.0	227.5	99.9	52.7	25.0	16.6	16.6	11.1	5.5	5.5
70°	21034.2	9350.4	180.3	74.9	38.8	19.4	11.1	11.1	8.3	5.5	5.5
72.5°	16031.6	6980.9	147.1	55.5	27.7	13.9	8.3	8.3	8.3	5.5	5.5
75°	9669.4	3759.6	113.8	41.6	25.0	11.1	5.5	8.3	11.1	8.3	5.5
77.5°	3562.6	1279.1	88.8	33.3	19.4	11.1	5.5	5.5	11.1	8.3	8.3
80°	874.0	333.0	63.8	27.7	19.4	11.1	5.5	5.5	11.1	11.1	11.1
82.5°	405.1	141.5	44.4	25.0	19.4	11.1	5.5	5.5	8.3	11.1	11.1
85°	233.1	66.6	36.1	27.7	19.4	11.1	5.5	5.5	8.3	11.1	11.1
87.5°	94.3	33.3	33.3	27.7	22.2	13.9	5.5	5.5	5.5	8.3	8.3
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)