

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: P459476

Luminaire Tested: **GALN-SA9B-735-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459476
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-SA9B-735-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 39328 lumens
Efficiency: N/A
Efficacy: 108.0 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

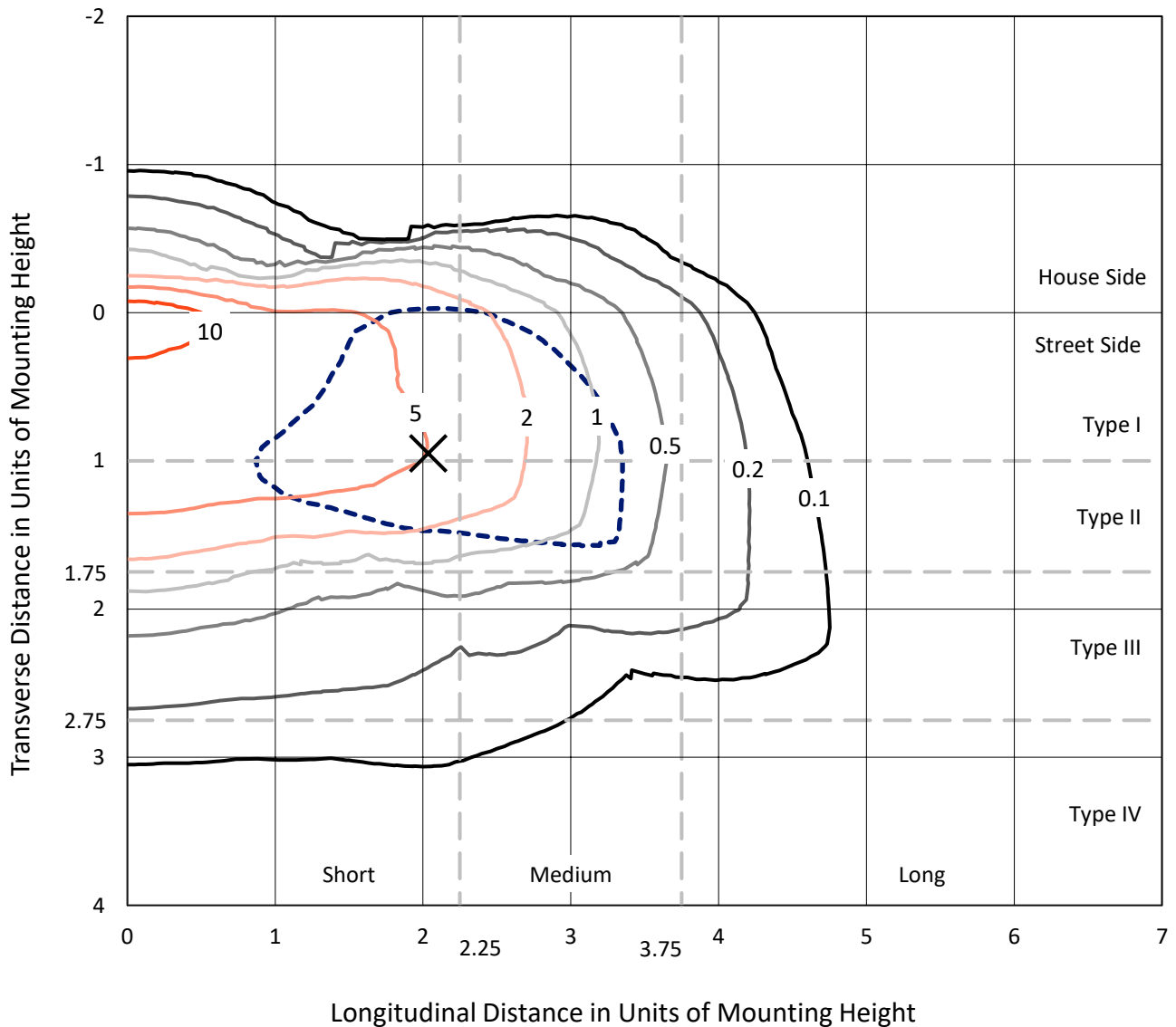
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

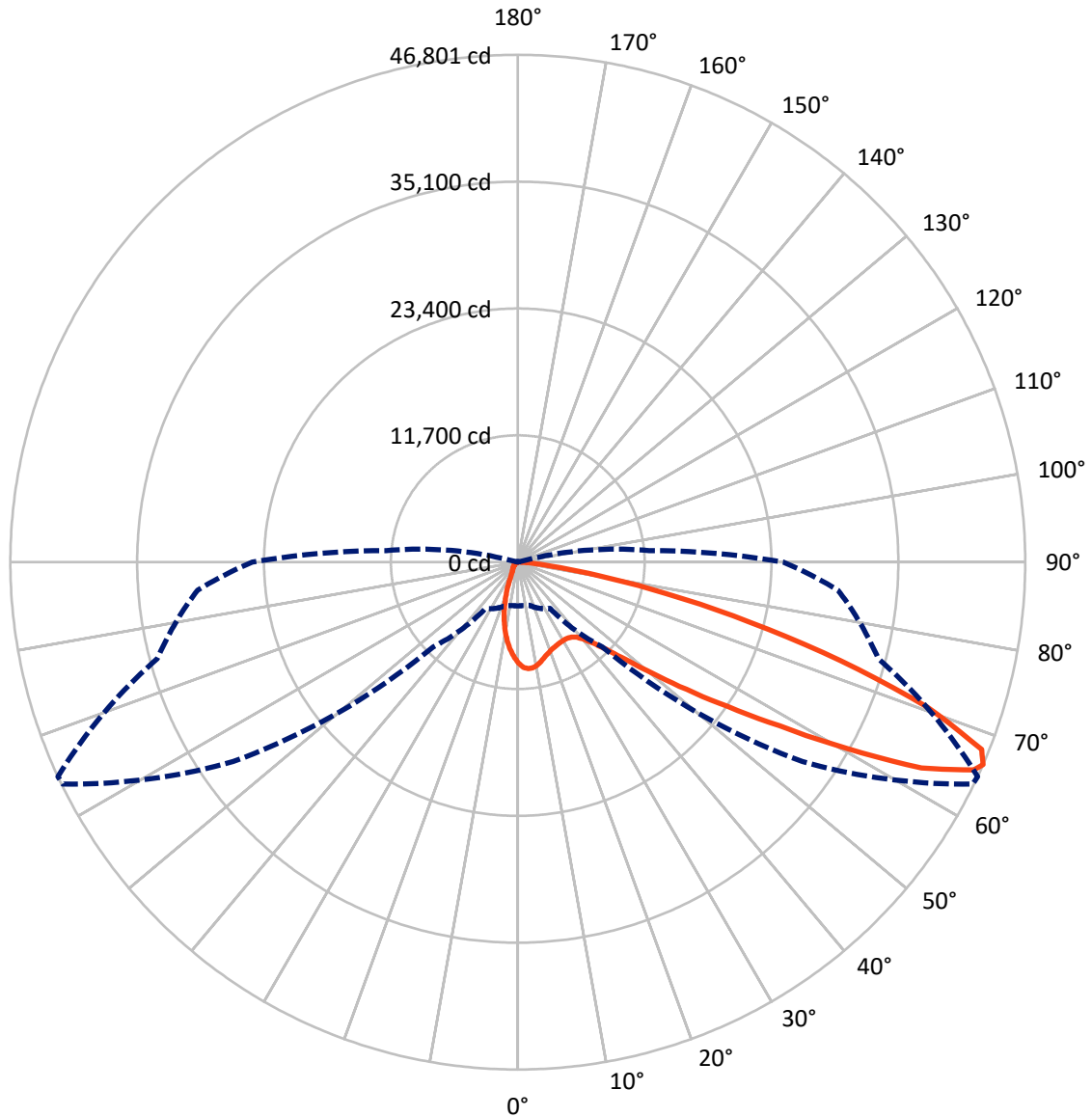
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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	4067.1	0.0	4067.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	35260.9	0.0	35260.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	39328.0	0.0	39328.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.7	1.9
10°-20°	1661.9	4.2
20°-30°	2380.7	6.1
30°-40°	3477.2	8.8
40°-50°	5830.6	14.8
50°-60°	9730.3	24.7
60°-70°	10328.4	26.3
70°-80°	4677.7	11.9
80°-90°	478.6	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°	39328.0	100.0
0°-180°	39328.0	100.0

Coefficient of Utilization



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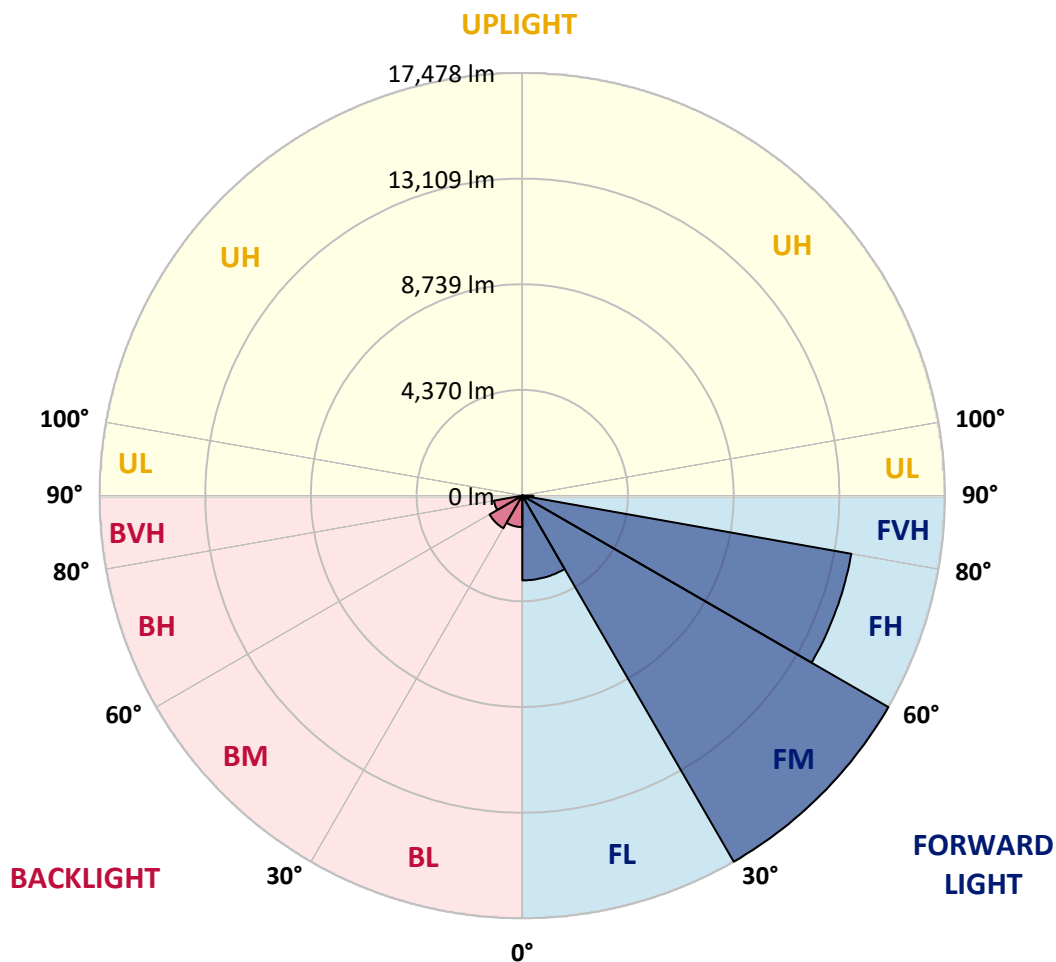
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3504.3	8.9			
FM (30°-60°)	17478.3	44.4			
FH (60°-80°)	13815.0	35.1			G5
FVH (80°-90°)	463.4	1.2			G3/500
BL (0°-30°)	1301.0	3.3	B3/2500		
BM (30°-60°)	1559.8	4.0	B2/2500		
BH (60°-80°)	1191.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	15.2	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°	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1
2.5°	9828.2	9838.8	9852.1	9870.7	9883.9	9844.1	9788.3	9724.6	9711.3	9575.8	9411.1
5°	9302.2	9318.2	9435.0	9498.8	9642.2	9772.4	9854.7	9865.3	9860.0	9732.5	9469.6
7.5°	8553.1	8598.3	8712.5	8824.1	9092.4	9339.4	9631.6	9836.1	9849.4	9814.9	9488.2
10°	7944.9	7974.1	8032.5	8253.0	8476.1	8853.3	9262.4	9647.5	9679.4	9817.5	9472.2
12.5°	7469.4	7511.9	7583.6	7753.6	8021.9	8377.8	8842.7	9360.7	9427.1	9767.1	9427.1
15°	7137.4	7158.6	7230.3	7397.7	7658.0	7987.4	8457.5	9060.5	9118.9	9700.7	9419.1
17.5°	6980.6	7004.6	7055.0	7187.8	7403.0	7708.5	8168.0	8818.8	8893.1	9658.2	9448.3
20°	7023.1	7044.4	7047.1	7116.1	7262.2	7519.9	7955.5	8593.0	8688.6	9631.6	9496.1
22.5°	7264.9	7267.5	7235.6	7203.8	7254.2	7440.2	7825.3	8449.6	8547.8	9626.3	9551.9
25°	7626.1	7634.1	7581.0	7469.4	7368.5	7464.1	7796.1	8356.6	8444.2	9613.0	9586.4
27.5°	8125.5	8122.8	8106.9	7921.0	7634.1	7570.3	7820.0	8306.1	8380.5	9575.8	9599.7
30°	8824.1	8802.8	8768.3	8558.5	8120.2	7828.0	7921.0	8274.2	8343.3	9522.7	9565.2
32.5°	9512.1	9591.7	9586.4	9387.2	8840.0	8287.5	8130.8	8316.7	8367.2	9488.2	9514.7
35°	10314.2	10311.6	10516.1	10441.7	9801.6	8874.6	8489.4	8457.5	8497.4	9512.1	9490.8
37.5°	11058.0	11127.1	11445.8	11522.8	10938.5	9703.3	8996.7	8760.3	8773.6	9674.1	9549.2
40°	11985.0	12117.8	12593.3	12851.0	12335.7	10933.2	9745.8	9315.5	9318.2	10072.5	9769.7
42.5°	13180.3	13390.2	13833.8	14264.1	13987.9	12388.8	10869.4	10194.7	10189.4	10773.8	10274.4
45°	14633.3	14779.4	15284.1	15966.8	15791.4	14420.8	12505.7	11557.4	11488.3	11923.9	11169.6
47.5°	15887.1	16086.3	16599.0	17377.2	18174.1	16901.8	14460.7	13430.0	13384.9	13754.1	12704.9
50°	16434.3	16609.6	17148.8	18240.5	20171.6	20158.3	17371.9	16163.3	16086.3	16285.5	15079.6
52.5°	15833.9	15998.6	16543.2	17903.2	21111.9	24126.8	21590.1	19592.6	19499.6	19244.6	17916.5
55°	13778.0	13913.5	14718.3	16280.2	20750.7	26772.4	27401.9	23829.3	23468.0	22477.2	21127.9
57.5°	10970.3	10901.3	11400.7	13214.9	18631.0	27659.6	33367.9	29107.3	28461.8	25271.6	23845.2
60°	7602.2	7814.7	8016.6	9211.9	14009.1	26121.6	37078.7	35742.6	34892.6	28020.9	26448.4
62.5°	5588.8	5729.5	5862.4	6414.9	8808.1	20856.9	37734.8	42558.6	41804.2	30940.1	28932.0
65°	4420.0	4430.6	4483.8	5028.3	5803.9	13562.8	34581.8	46402.2	46208.3	33750.4	29938.7
66°	4026.9	4029.5	4111.9	4696.3	5208.9	11044.7	32055.7	46694.3	46800.6	34425.1	29643.8
67.5°	3519.5	3508.9	3628.4	4220.8	4744.1	7963.5	27534.8	45509.7	46139.2	34943.1	28584.0
70°	2728.0	2714.7	2860.8	3540.8	4369.5	5312.5	18301.6	39076.2	40090.9	33883.2	25290.2
72.5°	1816.9	1827.5	2077.2	2794.4	4170.3	4677.7	11010.2	29726.2	31160.6	27981.0	19895.4
75°	1059.8	1078.4	1362.7	2077.2	3620.5	4459.9	6231.6	21196.9	22113.3	19321.6	12394.1
77.5°	555.2	563.1	762.3	1370.6	2775.8	4141.1	4151.7	13541.6	13971.9	9389.9	4906.1
80°	294.8	286.9	409.1	826.1	1909.8	3636.4	3368.1	7169.2	7453.5	2789.1	1240.5
82.5°	111.6	122.2	217.8	541.9	1128.9	2611.1	2900.6	3168.9	3070.6	613.6	520.6
85°	21.3	26.6	93.0	321.4	568.4	1091.7	2138.3	1553.9	1439.7	231.1	300.2
87.5°	2.7	5.3	26.6	77.0	82.3	369.2	632.2	430.3	371.9	85.0	124.8
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°	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1	9326.1
2.5°	9331.4	9259.7	9020.6	8784.2	8542.5	8324.7	8176.0	7934.2	7873.1	7785.5	7735.0
5°	9312.8	9145.5	8686.0	8183.9	7716.4	7211.7	6826.6	6454.7	6255.5	6154.5	6117.4
7.5°	9259.7	8994.1	8276.9	7490.6	6741.6	5987.2	5331.1	4831.7	4510.3	4289.9	4141.1
10°	9153.5	8786.9	7801.4	6720.3	5588.8	4592.7	3761.3	3129.1	2640.3	2486.3	2491.6
12.5°	9044.6	8555.8	7270.2	5865.0	4462.5	3206.1	2324.2	1824.8	1591.1	1514.1	1498.1
15°	8943.6	8335.3	6749.5	5036.3	3323.0	2077.2	1498.1	1322.8	1259.1	1245.8	1243.1
17.5°	8890.5	8130.8	6194.4	4088.0	2318.9	1410.5	1200.6	1152.8	1134.2	1120.9	1115.6
20°	8845.3	7952.8	5663.1	3200.8	1585.8	1155.5	1075.8	1030.6	998.8	985.5	977.5
22.5°	8813.5	7769.6	5113.3	2478.3	1213.9	1025.3	953.6	895.2	850.0	834.1	823.4
25°	8765.6	7567.7	4558.1	1811.6	1022.7	911.1	828.8	759.7	701.3	672.0	666.7
27.5°	8696.6	7339.2	3949.9	1341.4	913.8	810.2	709.2	624.2	565.8	533.9	536.6
30°	8585.0	7100.2	3341.6	1065.2	826.1	706.6	597.7	515.3	459.5	435.6	433.0
32.5°	8452.2	6810.6	2783.8	913.8	746.4	613.6	499.4	427.7	385.2	366.6	363.9
35°	8327.4	6518.5	2215.3	820.8	664.1	528.6	419.7	358.6	326.7	310.8	313.4
37.5°	8258.3	6258.1	1726.6	746.4	597.7	454.2	361.3	308.1	278.9	265.6	263.0
40°	8303.5	6045.6	1373.3	680.0	523.3	390.5	310.8	265.6	236.4	217.8	217.8
42.5°	8516.0	5952.7	1107.7	616.3	454.2	337.3	270.9	228.4	196.6	178.0	180.6
45°	9164.1	6051.0	927.0	557.8	390.5	292.2	233.8	188.6	159.4	146.1	143.4
47.5°	10239.9	6420.2	802.2	496.7	334.7	249.7	196.6	156.7	127.5	116.9	114.2
50°	12120.5	7182.5	709.2	435.6	284.2	212.5	162.0	124.8	100.9	90.3	90.3
52.5°	14707.7	8845.3	642.8	366.6	239.1	180.6	132.8	100.9	79.7	71.7	69.1
55°	17411.8	10598.5	608.3	308.1	199.2	148.8	106.3	79.7	61.1	53.1	50.5
57.5°	20012.2	11974.4	568.4	249.7	159.4	114.2	82.3	61.1	42.5	37.2	34.5
60°	22506.5	13087.4	483.4	199.2	124.8	82.3	61.1	42.5	29.2	23.9	23.9
62.5°	24737.7	13735.5	379.8	159.4	95.6	58.4	39.8	31.9	21.3	15.9	15.9
65°	24998.0	12893.5	286.9	122.2	69.1	37.2	23.9	23.9	15.9	10.6	10.6
66°	24474.8	12178.9	252.3	111.6	61.1	31.9	21.3	18.6	13.3	8.0	8.0
67.5°	23306.0	10959.7	217.8	95.6	50.5	23.9	15.9	15.9	10.6	5.3	5.3
70°	20137.1	8951.6	172.7	71.7	37.2	18.6	10.6	10.6	8.0	5.3	5.3
72.5°	15347.9	6683.1	140.8	53.1	26.6	13.3	8.0	8.0	8.0	5.3	5.3
75°	9257.1	3599.2	108.9	39.8	23.9	10.6	5.3	8.0	10.6	8.0	5.3
77.5°	3410.6	1224.5	85.0	31.9	18.6	10.6	5.3	5.3	10.6	8.0	8.0
80°	836.7	318.8	61.1	26.6	18.6	10.6	5.3	5.3	10.6	10.6	10.6
82.5°	387.8	135.5	42.5	23.9	18.6	10.6	5.3	5.3	8.0	10.6	10.6
85°	223.1	63.8	34.5	26.6	18.6	10.6	5.3	5.3	8.0	10.6	10.6
87.5°	90.3	31.9	31.9	26.6	21.3	13.3	5.3	5.3	5.3	8.0	8.0
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)