

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: P457910

Luminaire Tested: **GALN-SA9B-740-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457910
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-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 42218 lumens
Efficiency: N/A
Efficacy: 116.0 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

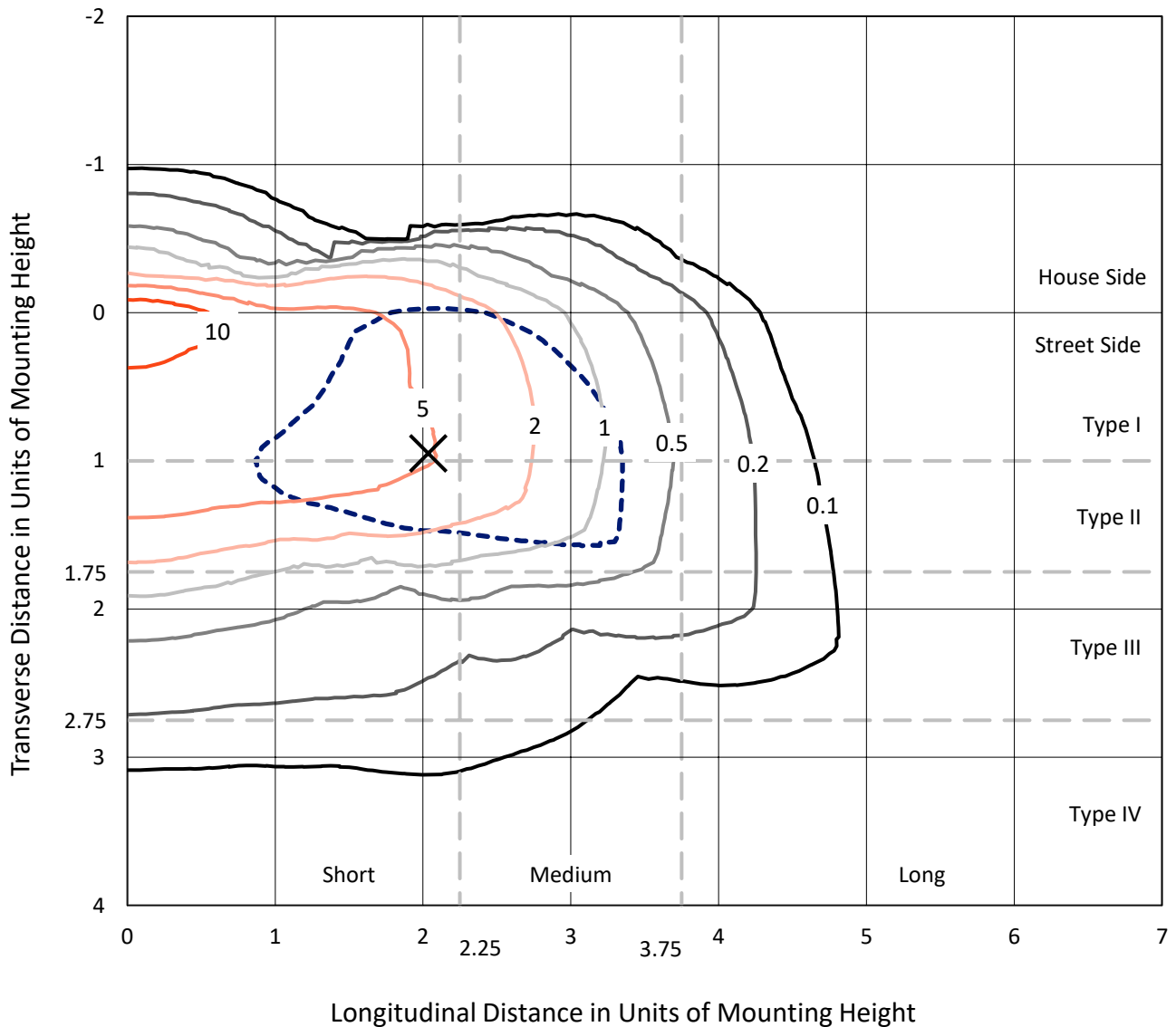




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Iso-Footcandle Lines of Horizontal Illumination

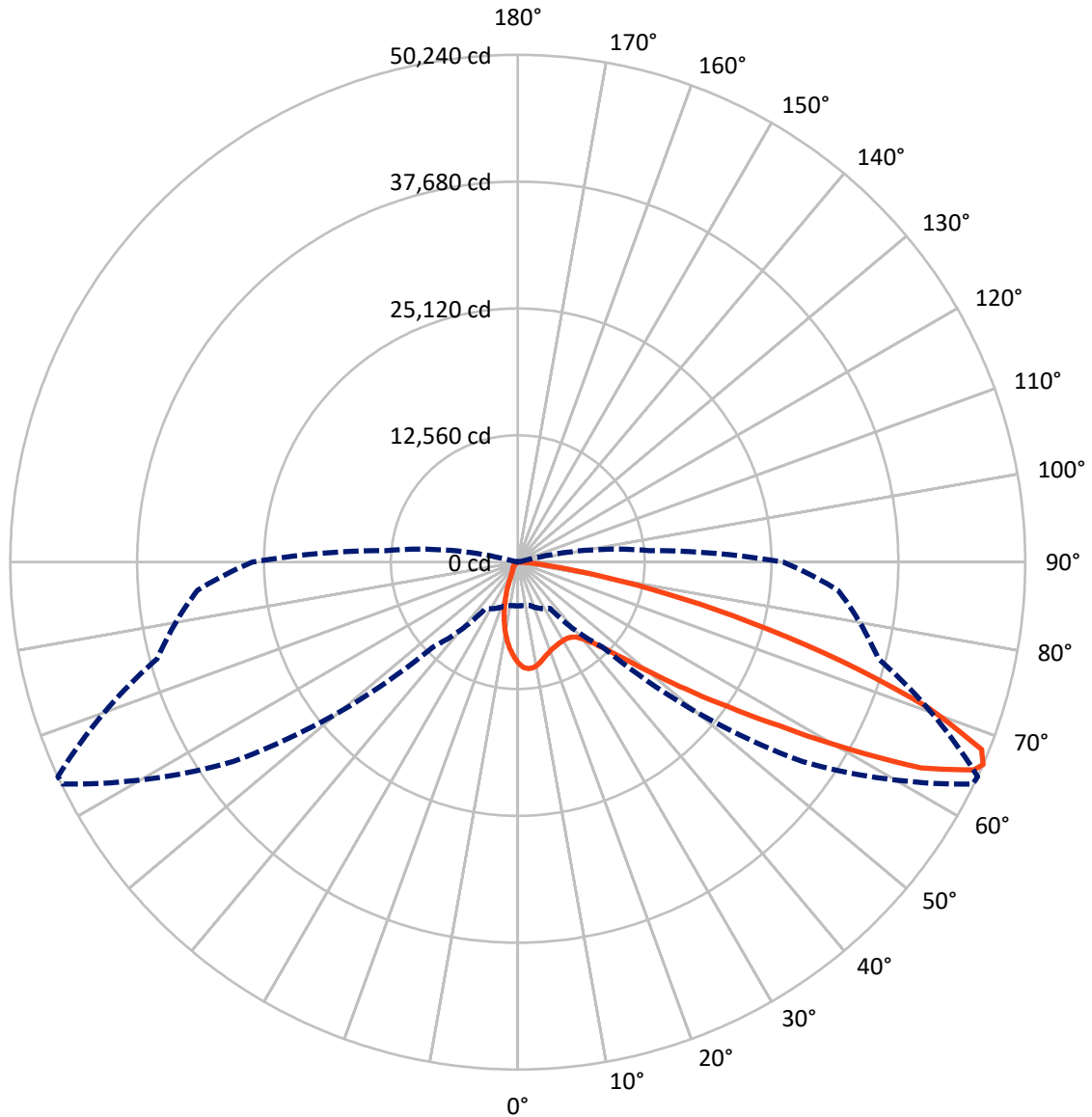
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 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	4365.9	0.0	4365.9
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	37852.1	0.0	37852.1
	% Fixture	89.7	0.0	89.7
Total	Lumens	42218.0	0.0	42218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.8	1.9
10°-20°	1784.0	4.2
20°-30°	2555.6	6.1
30°-40°	3732.7	8.8
40°-50°	6259.0	14.8
50°-60°	10445.3	24.7
60°-70°	11087.4	26.3
70°-80°	5021.4	11.9
80°-90°	513.8	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°	42218.0	100.0
0°-180°	42218.0	100.0

Coefficient of Utilization



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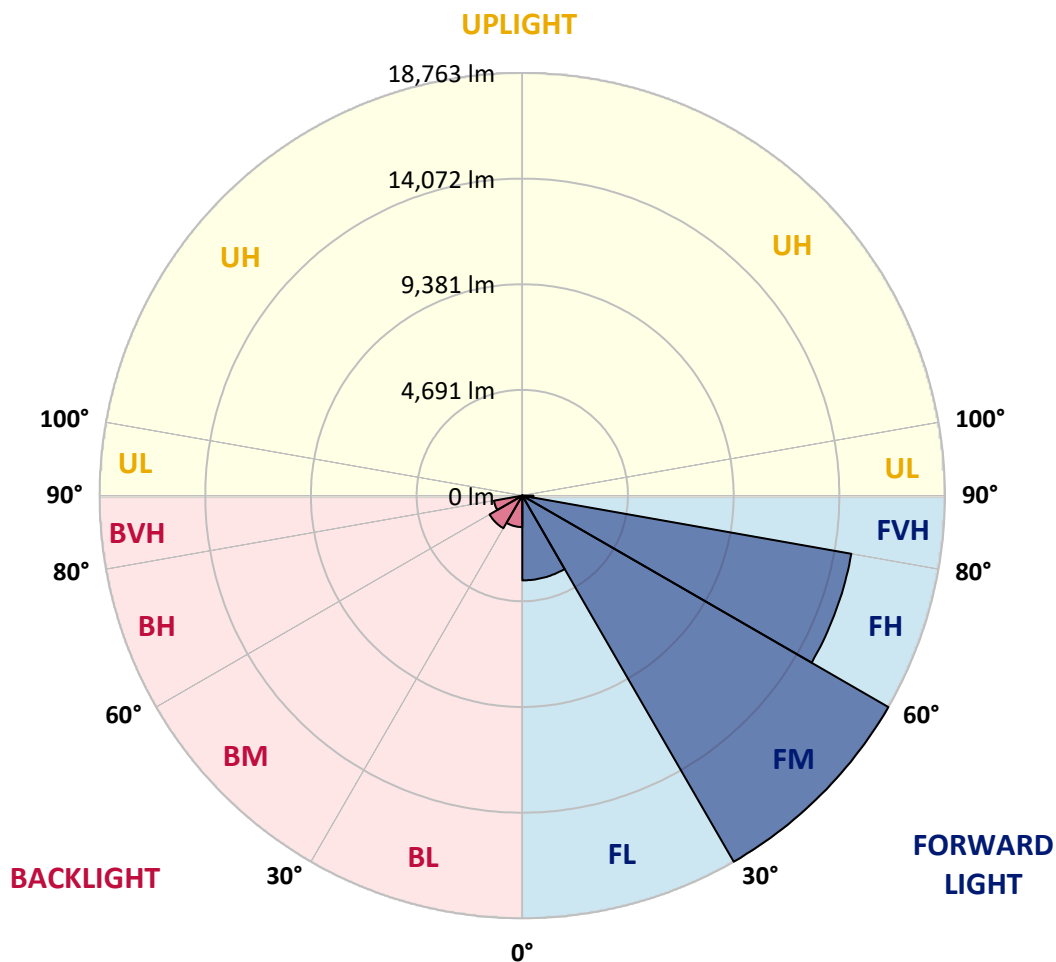
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3761.8	8.9			
FM	(30°-60°)	18762.6	44.4			
FH	(60°-80°)	14830.2	35.1			G5
FVH	(80°-90°)	497.4	1.2			G3/500
BL	(0°-30°)	1396.6	3.3	B3/2500		
BM	(30°-60°)	1674.4	4.0	B2/2500		
BH	(60°-80°)	1278.6	3.0	B3/2500		G3/2500
BVH	(80°-90°)	16.4	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°	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4
2.5°	10550.4	10561.8	10576.0	10596.0	10610.2	10567.5	10507.6	10439.2	10424.9	10279.5	10102.7
5°	9985.8	10002.9	10128.4	10196.8	10350.8	10490.5	10578.9	10590.3	10584.6	10447.7	10165.4
7.5°	9181.7	9230.1	9352.8	9472.5	9760.5	10025.7	10339.4	10558.9	10573.2	10536.1	10185.4
10°	8528.7	8560.1	8622.8	8859.5	9099.0	9503.9	9943.0	10356.5	10390.7	10539.0	10168.3
12.5°	8018.3	8063.9	8140.9	8323.4	8611.4	8993.5	9492.5	10048.5	10119.8	10484.8	10119.8
15°	7661.8	7684.7	7761.6	7941.3	8220.7	8574.3	9079.0	9726.3	9789.0	10413.5	10111.2
17.5°	7493.6	7519.3	7573.5	7716.0	7947.0	8274.9	8768.2	9466.8	9546.7	10367.9	10142.6
20°	7539.2	7562.0	7564.9	7639.0	7795.9	8072.5	8540.1	9224.4	9327.1	10339.4	10193.9
22.5°	7798.7	7801.6	7767.4	7733.1	7787.3	7986.9	8400.4	9070.5	9176.0	10333.7	10253.8
25°	8186.5	8195.1	8138.0	8018.3	7909.9	8012.6	8369.0	8970.7	9064.8	10319.4	10290.9
27.5°	8722.6	8719.7	8702.6	8503.0	8195.1	8126.6	8394.7	8916.5	8996.3	10279.5	10305.1
30°	9472.5	9449.7	9412.6	9187.4	8716.9	8403.2	8503.0	8882.3	8956.4	10222.5	10268.1
32.5°	10211.0	10296.6	10290.9	10077.0	9489.6	8896.5	8728.3	8927.9	8982.1	10185.4	10213.9
35°	11072.2	11069.3	11288.9	11209.1	10521.9	9526.7	9113.2	9079.0	9121.8	10211.0	10188.2
37.5°	11870.6	11944.7	12286.9	12369.6	11742.3	10416.4	9657.9	9404.1	9418.3	10385.0	10251.0
40°	12865.7	13008.3	13518.7	13795.3	13242.1	11736.6	10462.0	10000.0	10002.9	10812.7	10487.6
42.5°	14148.9	14374.2	14850.4	15312.3	15015.7	13299.2	11668.1	10943.9	10938.2	11565.5	11029.4
45°	15708.6	15865.5	16407.2	17140.1	16951.9	15480.5	13424.6	12406.7	12332.5	12800.2	11990.4
47.5°	17054.5	17268.4	17818.7	18654.2	19509.6	18143.8	15523.3	14416.9	14368.5	14764.8	13638.5
50°	17641.9	17830.1	18409.0	19580.9	21653.9	21639.7	18648.5	17351.1	17268.4	17482.2	16187.7
52.5°	16997.5	17174.3	17758.8	19218.8	22663.3	25899.7	23176.6	21032.3	20932.5	20658.8	19233.0
55°	14790.5	14935.9	15799.9	17476.5	22275.5	28739.8	29415.6	25580.4	25192.6	24129.0	22680.4
57.5°	11776.5	11702.4	12238.4	14186.0	20000.1	29692.2	35819.9	31246.2	30553.3	27128.7	25597.5
60°	8160.9	8389.0	8605.7	9888.8	15038.6	28041.2	39803.4	38369.1	37456.7	30080.0	28391.9
62.5°	5999.5	6150.6	6293.2	6886.3	9455.4	22389.6	40507.7	45685.9	44876.1	33213.7	31058.0
65°	4744.8	4756.2	4813.2	5397.8	6230.4	14559.5	37123.0	49812.0	49603.8	36230.5	32138.7
66°	4322.8	4325.7	4414.0	5041.4	5591.7	11856.3	34411.3	50125.7	50239.7	36954.8	31822.2
67.5°	3778.2	3766.8	3895.1	4531.0	5092.7	8548.7	29558.1	48853.9	49529.7	37510.8	30684.5
70°	2928.4	2914.2	3071.0	3801.0	4690.6	5702.9	19646.5	41947.7	43037.0	36373.1	27148.7
72.5°	1950.4	1961.8	2229.8	2999.7	4476.8	5021.4	11819.3	31910.6	33450.4	30037.2	21357.4
75°	1137.7	1157.7	1462.8	2229.8	3886.5	4787.6	6689.5	22754.6	23738.3	20741.5	13304.9
77.5°	596.0	604.5	818.4	1471.3	2979.8	4445.4	4456.8	14536.7	14998.6	10079.9	5266.6
80°	316.5	308.0	439.1	886.8	2050.2	3903.6	3615.6	7696.1	8001.2	2994.0	1331.6
82.5°	119.8	131.2	233.8	581.7	1211.9	2803.0	3113.8	3401.8	3296.3	658.7	558.9
85°	22.8	28.5	99.8	345.0	610.2	1171.9	2295.4	1668.1	1545.5	248.1	322.2
87.5°	2.9	5.7	28.5	82.7	88.4	396.4	678.6	461.9	399.2	91.2	134.0
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°	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4	10011.4
2.5°	10017.1	9940.2	9683.5	9429.7	9170.3	8936.4	8776.8	8517.3	8451.7	8357.6	8303.4
5°	9997.2	9817.5	9324.2	8785.3	8283.5	7741.7	7328.2	6929.0	6715.2	6606.8	6566.9
7.5°	9940.2	9655.0	8885.1	8041.1	7237.0	6427.2	5722.9	5186.8	4841.8	4605.1	4445.4
10°	9826.1	9432.6	8374.7	7214.2	5999.5	4930.2	4037.7	3359.0	2834.3	2669.0	2674.7
12.5°	9709.2	9184.5	7804.4	6296.0	4790.4	3441.7	2495.0	1958.9	1708.0	1625.3	1608.2
15°	9600.8	8947.9	7245.5	5406.4	3567.2	2229.8	1608.2	1420.0	1351.6	1337.3	1334.5
17.5°	9543.8	8728.3	6649.6	4388.4	2489.3	1514.1	1288.9	1237.5	1217.6	1203.3	1197.6
20°	9495.3	8537.2	6079.3	3436.0	1702.3	1240.4	1154.8	1106.4	1072.1	1057.9	1049.3
22.5°	9461.1	8340.5	5489.0	2660.4	1303.1	1100.7	1023.7	960.9	912.5	895.4	883.9
25°	9409.8	8123.8	4893.1	1944.7	1097.8	978.0	889.7	815.5	752.8	721.4	715.7
27.5°	9335.7	7878.6	4240.1	1440.0	980.9	869.7	761.3	670.1	607.4	573.1	576.0
30°	9215.9	7621.9	3587.1	1143.4	886.8	758.5	641.6	553.2	493.3	467.6	464.8
32.5°	9073.3	7311.1	2988.3	980.9	801.3	658.7	536.1	459.1	413.5	393.5	390.6
35°	8939.3	6997.5	2378.1	881.1	712.9	567.4	450.5	384.9	350.7	333.6	336.5
37.5°	8865.2	6718.0	1853.4	801.3	641.6	487.6	387.8	330.8	299.4	285.1	282.3
40°	8913.6	6489.9	1474.2	730.0	561.7	419.2	333.6	285.1	253.8	233.8	233.8
42.5°	9141.8	6390.1	1189.1	661.5	487.6	362.1	290.8	245.2	211.0	191.0	193.9
45°	9837.5	6495.6	995.2	598.8	419.2	313.7	250.9	202.5	171.1	156.8	154.0
47.5°	10992.3	6892.0	861.1	533.2	359.3	268.0	211.0	168.2	136.9	125.5	122.6
50°	13011.2	7710.3	761.3	467.6	305.1	228.1	173.9	134.0	108.4	96.9	96.9
52.5°	15788.5	9495.3	690.1	393.5	256.6	193.9	142.6	108.4	85.5	77.0	74.1
55°	18691.3	11377.3	653.0	330.8	213.9	159.7	114.1	85.5	65.6	57.0	54.2
57.5°	21482.8	12854.3	610.2	268.0	171.1	122.6	88.4	65.6	45.6	39.9	37.1
60°	24160.3	14049.1	519.0	213.9	134.0	88.4	65.6	45.6	31.4	25.7	25.7
62.5°	26555.6	14744.9	407.8	171.1	102.7	62.7	42.8	34.2	22.8	17.1	17.1
65°	26835.0	13840.9	308.0	131.2	74.1	39.9	25.7	25.7	17.1	11.4	11.4
66°	26273.3	13073.9	270.9	119.8	65.6	34.2	22.8	20.0	14.3	8.6	8.6
67.5°	25018.6	11765.1	233.8	102.7	54.2	25.7	17.1	17.1	11.4	5.7	5.7
70°	21616.9	9609.4	185.3	77.0	39.9	20.0	11.4	11.4	8.6	5.7	5.7
72.5°	16475.7	7174.3	151.1	57.0	28.5	14.3	8.6	8.6	8.6	5.7	5.7
75°	9937.3	3863.7	116.9	42.8	25.7	11.4	5.7	8.6	11.4	8.6	5.7
77.5°	3661.3	1314.5	91.2	34.2	20.0	11.4	5.7	5.7	11.4	8.6	8.6
80°	898.2	342.2	65.6	28.5	20.0	11.4	5.7	5.7	11.4	11.4	11.4
82.5°	416.3	145.4	45.6	25.7	20.0	11.4	5.7	5.7	8.6	11.4	11.4
85°	239.5	68.4	37.1	28.5	20.0	11.4	5.7	5.7	8.6	11.4	11.4
87.5°	96.9	34.2	34.2	28.5	22.8	14.3	5.7	5.7	5.7	8.6	8.6
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)