

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: P457301

Luminaire Tested: **GALN-SA8C-827-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457301
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-SA8C-827-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 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: 34156 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 429
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

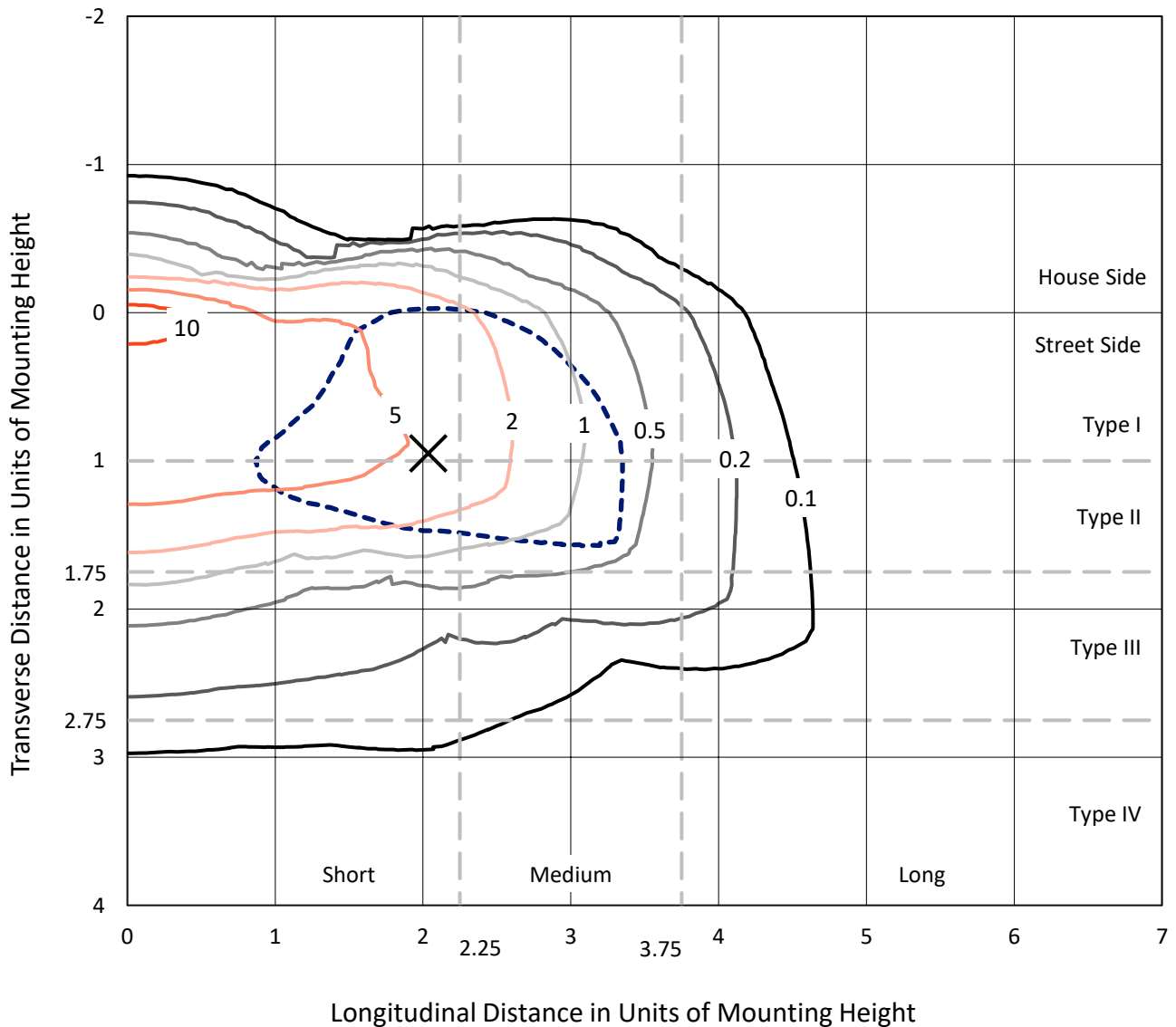




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Iso-Footcandle Lines of Horizontal Illumination

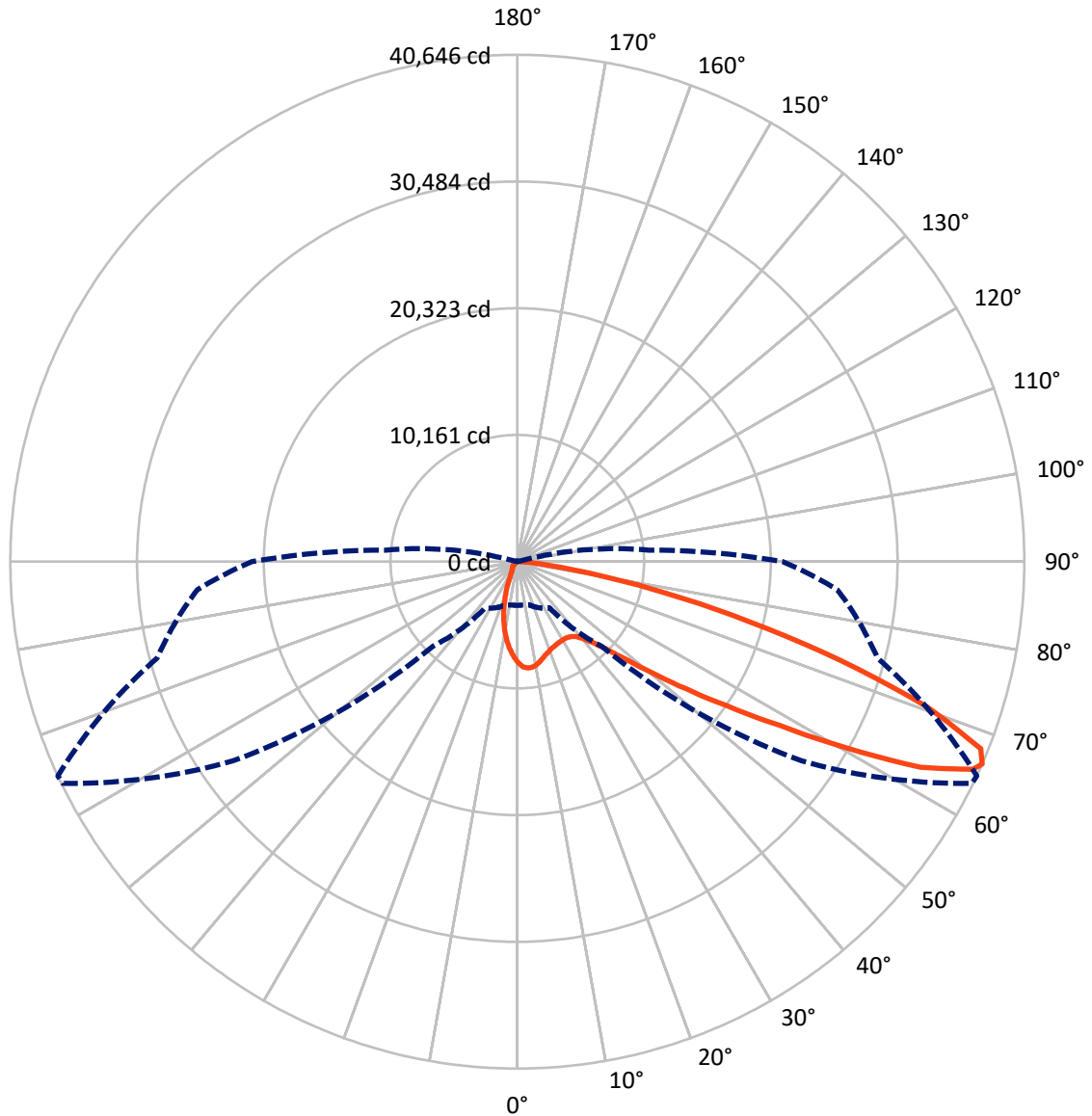
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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	3532.2	0.0	3532.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	30623.8	0.0	30623.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	34156.0	0.0	34156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.4	1.9
10°-20°	1443.3	4.2
20°-30°	2067.6	6.1
30°-40°	3019.9	8.8
40°-50°	5063.8	14.8
50°-60°	8450.7	24.7
60°-70°	8970.1	26.3
70°-80°	4062.5	11.9
80°-90°	415.7	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°	34156.0	100.0
0°-180°	34156.0	100.0

Coefficient of Utilization



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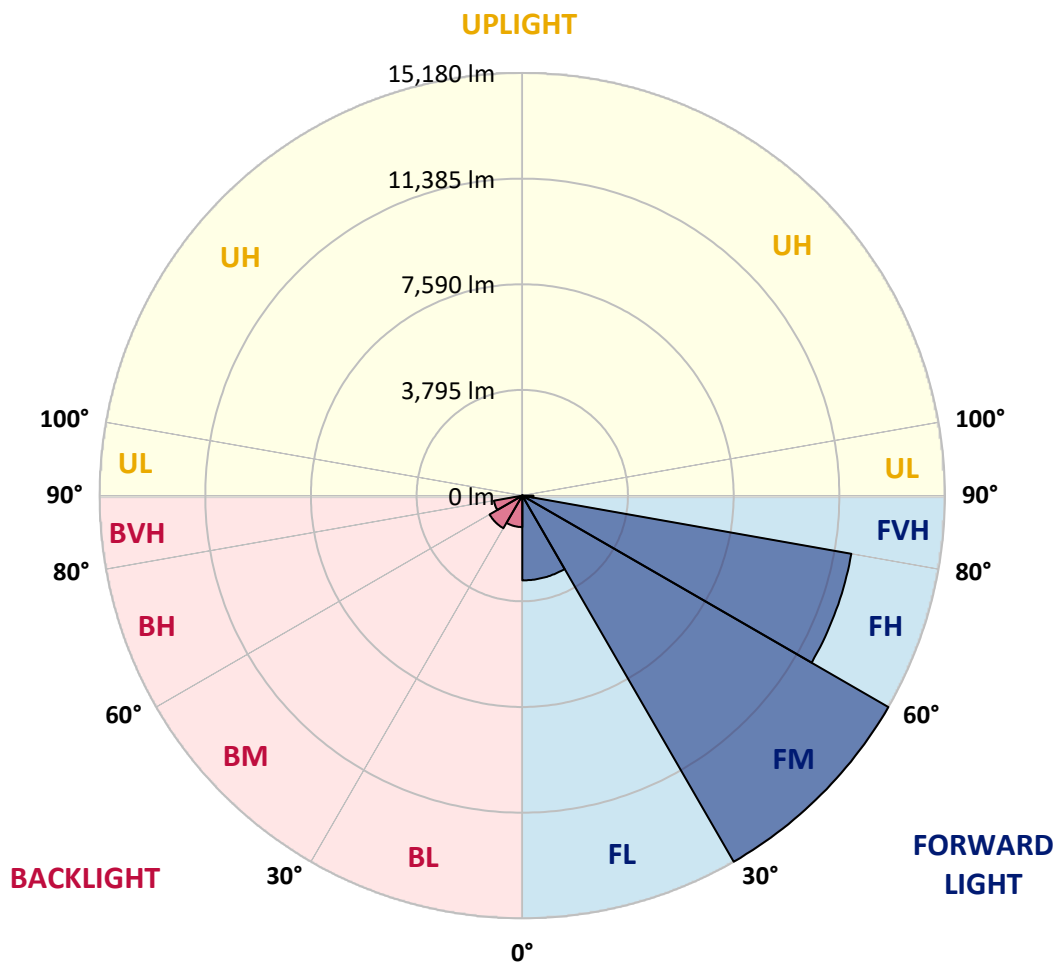
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3043.4	8.9			
FM (30°-60°)	15179.7	44.4			
FH (60°-80°)	11998.2	35.1			G4/12000
FVH (80°-90°)	402.4	1.2			G3/500
BL (0°-30°)	1129.9	3.3	B3/2500		
BM (30°-60°)	1354.6	4.0	B2/2500		
BH (60°-80°)	1034.4	3.0	B3/2500		G3/2500
BVH (80°-90°)	13.2	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-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6
2.5°	8535.7	8544.9	8556.4	8572.6	8584.1	8549.5	8501.1	8445.7	8434.2	8316.5	8173.5
5°	8078.9	8092.7	8194.2	8249.6	8374.2	8487.2	8558.7	8568.0	8563.3	8452.6	8224.2
7.5°	7428.3	7467.5	7566.7	7663.6	7896.6	8111.2	8364.9	8542.6	8554.1	8524.1	8240.4
10°	6900.0	6925.4	6976.2	7167.6	7361.4	7689.0	8044.3	8378.8	8406.5	8526.4	8226.5
12.5°	6487.1	6524.0	6586.3	6733.9	6966.9	7276.1	7679.8	8129.6	8187.3	8482.6	8187.3
15°	6198.7	6217.2	6279.5	6424.8	6650.9	6937.0	7345.3	7869.0	7919.7	8424.9	8180.4
17.5°	6062.6	6083.4	6127.2	6242.6	6429.4	6694.7	7093.8	7659.0	7723.6	8388.0	8205.8
20°	6099.5	6118.0	6120.3	6180.3	6307.2	6530.9	6909.3	7462.9	7546.0	8364.9	8247.3
22.5°	6309.5	6311.8	6284.1	6256.4	6300.2	6461.7	6796.2	7338.4	7423.7	8360.3	8295.7
25°	6623.2	6630.1	6584.0	6487.1	6399.4	6482.5	6770.9	7257.6	7333.7	8348.8	8325.7
27.5°	7056.9	7054.6	7040.8	6879.3	6630.1	6574.8	6791.6	7213.8	7278.4	8316.5	8337.3
30°	7663.6	7645.2	7615.2	7432.9	7052.3	6798.5	6879.3	7186.1	7246.1	8270.4	8307.3
32.5°	8261.1	8330.3	8325.7	8152.7	7677.5	7197.6	7061.5	7223.0	7266.8	8240.4	8263.4
35°	8957.8	8955.5	9133.2	9068.6	8512.6	7707.5	7373.0	7345.3	7379.9	8261.1	8242.7
37.5°	9603.8	9663.7	9940.6	10007.5	9500.0	8427.2	7813.6	7608.3	7619.8	8401.9	8293.4
40°	10408.9	10524.2	10937.2	11160.9	10713.4	9495.3	8464.1	8090.4	8092.7	8747.9	8484.9
42.5°	11447.0	11629.3	12014.5	12388.2	12148.3	10759.5	9440.0	8854.0	8849.4	9356.9	8923.2
45°	12708.9	12835.8	13274.1	13867.0	13714.7	12524.3	10861.0	10037.5	9977.5	10355.8	9700.7
47.5°	13797.8	13970.8	14416.0	15092.0	15784.0	14679.0	12559.0	11663.9	11624.6	11945.3	11034.1
50°	14273.0	14425.3	14893.6	15841.7	17518.9	17507.3	15087.4	14037.7	13970.8	14143.8	13096.5
52.5°	13751.6	13894.7	14367.6	15548.7	18335.5	20953.9	18750.8	17015.9	16935.2	16713.7	15560.3
55°	11966.1	12083.7	12782.7	14139.2	18021.8	23251.6	23798.3	20695.5	20381.8	19521.3	18349.4
57.5°	9527.6	9467.7	9901.4	11477.0	16180.8	24022.1	28979.7	25279.4	24718.8	21948.2	20709.4
60°	6602.4	6787.0	6962.3	8000.4	12166.8	22686.4	32202.5	31042.1	30303.9	24335.9	22970.1
62.5°	4853.8	4976.1	5091.4	5571.2	7649.8	18114.1	32772.3	36961.7	36306.5	26871.2	25127.1
65°	3838.7	3848.0	3894.1	4367.0	5040.7	11779.2	30034.0	40299.8	40131.4	29311.9	26001.5
66°	3497.3	3499.6	3571.1	4078.7	4523.9	9592.2	27840.1	40553.6	40645.9	29897.9	25745.4
67.5°	3056.7	3047.5	3151.3	3665.7	4120.2	6916.2	23913.7	39524.7	40071.5	30347.7	24824.9
70°	2369.2	2357.7	2484.6	3075.1	3794.9	4613.9	15894.8	33937.3	34818.6	29427.3	21964.3
72.5°	1577.9	1587.2	1804.0	2426.9	3621.9	4062.5	9562.2	25816.9	27062.6	24301.2	17278.9
75°	920.5	936.6	1183.5	1804.0	3144.4	3873.3	5412.1	18409.3	19205.2	16780.6	10764.2
77.5°	482.1	489.1	662.1	1190.4	2410.7	3596.5	3605.7	11760.8	12134.5	8155.0	4260.9
80°	256.1	249.1	355.3	717.5	1658.7	3158.2	2925.2	6226.4	6473.3	2422.3	1077.3
82.5°	96.9	106.1	189.2	470.6	980.4	2267.7	2519.2	2752.2	2666.8	532.9	452.2
85°	18.5	23.1	80.7	279.1	493.7	948.2	1857.1	1349.6	1250.4	200.7	260.7
87.5°	2.3	4.6	23.1	66.9	71.5	320.7	549.1	373.7	323.0	73.8	108.4
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°	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6	8099.6
2.5°	8104.3	8042.0	7834.3	7629.0	7419.1	7229.9	7100.7	6890.8	6837.8	6761.6	6717.8
5°	8088.1	7942.8	7543.7	7107.7	6701.6	6263.3	5928.8	5605.9	5432.8	5345.2	5312.9
7.5°	8042.0	7811.3	7188.4	6505.6	5855.0	5199.8	4630.0	4196.3	3917.2	3725.7	3596.5
10°	7949.7	7631.3	6775.5	5836.5	4853.8	3988.7	3266.6	2717.6	2293.1	2159.3	2163.9
12.5°	7855.1	7430.6	6314.1	5093.7	3875.7	2784.5	2018.6	1584.9	1381.9	1315.0	1301.1
15°	7767.4	7239.2	5861.9	4373.9	2886.0	1804.0	1301.1	1148.9	1093.5	1082.0	1079.6
17.5°	7721.3	7061.5	5379.8	3550.4	2014.0	1225.0	1042.7	1001.2	985.1	973.5	968.9
20°	7682.1	6907.0	4918.4	2779.9	1377.2	1003.5	934.3	895.1	867.4	855.9	849.0
22.5°	7654.4	6747.8	4440.8	2152.4	1054.3	890.5	828.2	777.4	738.2	724.4	715.1
25°	7612.9	6572.5	3958.7	1573.3	888.2	791.3	719.8	659.8	609.0	583.7	579.0
27.5°	7552.9	6374.1	3430.4	1165.0	793.6	703.6	616.0	542.1	491.4	463.7	466.0
30°	7456.0	6166.4	2902.1	925.1	717.5	613.6	519.1	447.5	399.1	378.3	376.0
32.5°	7340.7	5915.0	2417.7	793.6	648.2	532.9	433.7	371.4	334.5	318.4	316.1
35°	7232.2	5661.2	1924.0	712.8	576.7	459.1	364.5	311.4	283.8	269.9	272.2
37.5°	7172.3	5435.1	1499.5	648.2	519.1	394.5	313.7	267.6	242.2	230.7	228.4
40°	7211.5	5250.6	1192.7	590.6	454.5	339.1	269.9	230.7	205.3	189.2	189.2
42.5°	7396.0	5169.8	962.0	535.2	394.5	293.0	235.3	198.4	170.7	154.6	156.9
45°	7958.9	5255.2	805.1	484.5	339.1	253.8	203.0	163.8	138.4	126.9	124.6
47.5°	8893.2	5575.9	696.7	431.4	290.7	216.9	170.7	136.1	110.7	101.5	99.2
50°	10526.5	6238.0	616.0	378.3	246.8	184.6	140.7	108.4	87.7	78.4	78.4
52.5°	12773.5	7682.1	558.3	318.4	207.6	156.9	115.3	87.7	69.2	62.3	60.0
55°	15122.0	9204.7	528.3	267.6	173.0	129.2	92.3	69.2	53.1	46.1	43.8
57.5°	17380.4	10399.7	493.7	216.9	138.4	99.2	71.5	53.1	36.9	32.3	30.0
60°	19546.7	11366.3	419.9	173.0	108.4	71.5	53.1	36.9	25.4	20.8	20.8
62.5°	21484.5	11929.2	329.9	138.4	83.0	50.8	34.6	27.7	18.5	13.8	13.8
65°	21710.6	11197.9	249.1	106.1	60.0	32.3	20.8	20.8	13.8	9.2	9.2
66°	21256.1	10577.3	219.2	96.9	53.1	27.7	18.5	16.1	11.5	6.9	6.9
67.5°	20241.0	9518.4	189.2	83.0	43.8	20.8	13.8	13.8	9.2	4.6	4.6
70°	17488.9	7774.4	150.0	62.3	32.3	16.1	9.2	9.2	6.9	4.6	4.6
72.5°	13329.5	5804.2	122.3	46.1	23.1	11.5	6.9	6.9	6.9	4.6	4.6
75°	8039.7	3125.9	94.6	34.6	20.8	9.2	4.6	6.9	9.2	6.9	4.6
77.5°	2962.1	1063.5	73.8	27.7	16.1	9.2	4.6	4.6	9.2	6.9	6.9
80°	726.7	276.8	53.1	23.1	16.1	9.2	4.6	4.6	9.2	9.2	9.2
82.5°	336.8	117.7	36.9	20.8	16.1	9.2	4.6	4.6	6.9	9.2	9.2
85°	193.8	55.4	30.0	23.1	16.1	9.2	4.6	4.6	6.9	9.2	9.2
87.5°	78.4	27.7	27.7	23.1	18.5	11.5	4.6	4.6	4.6	6.9	6.9
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)