

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: P458706

Luminaire Tested: **GALN-SA2C-735-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-735-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10544 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

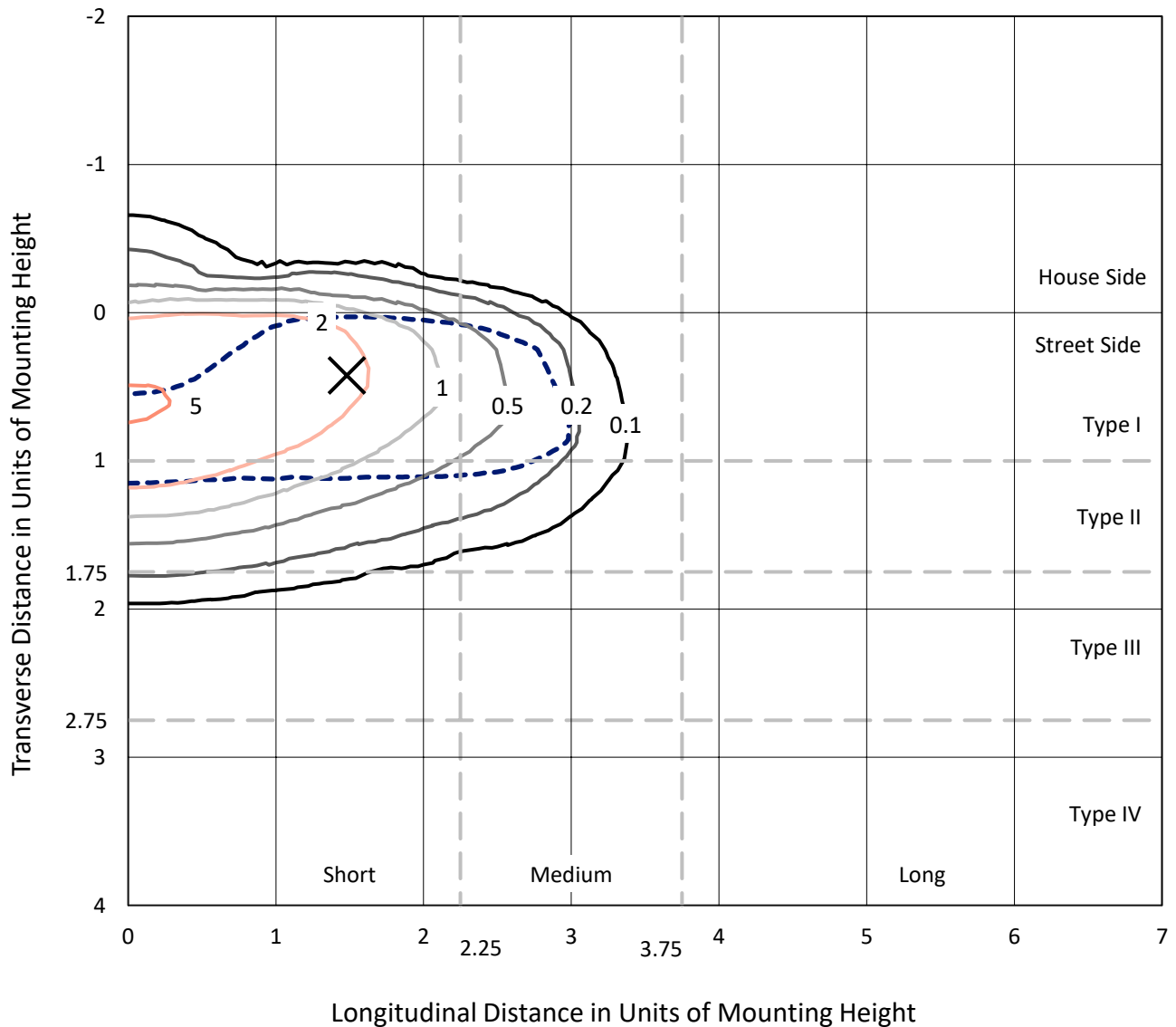
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458706
 CATALOG NUMBER: GALN-SA2C-735-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

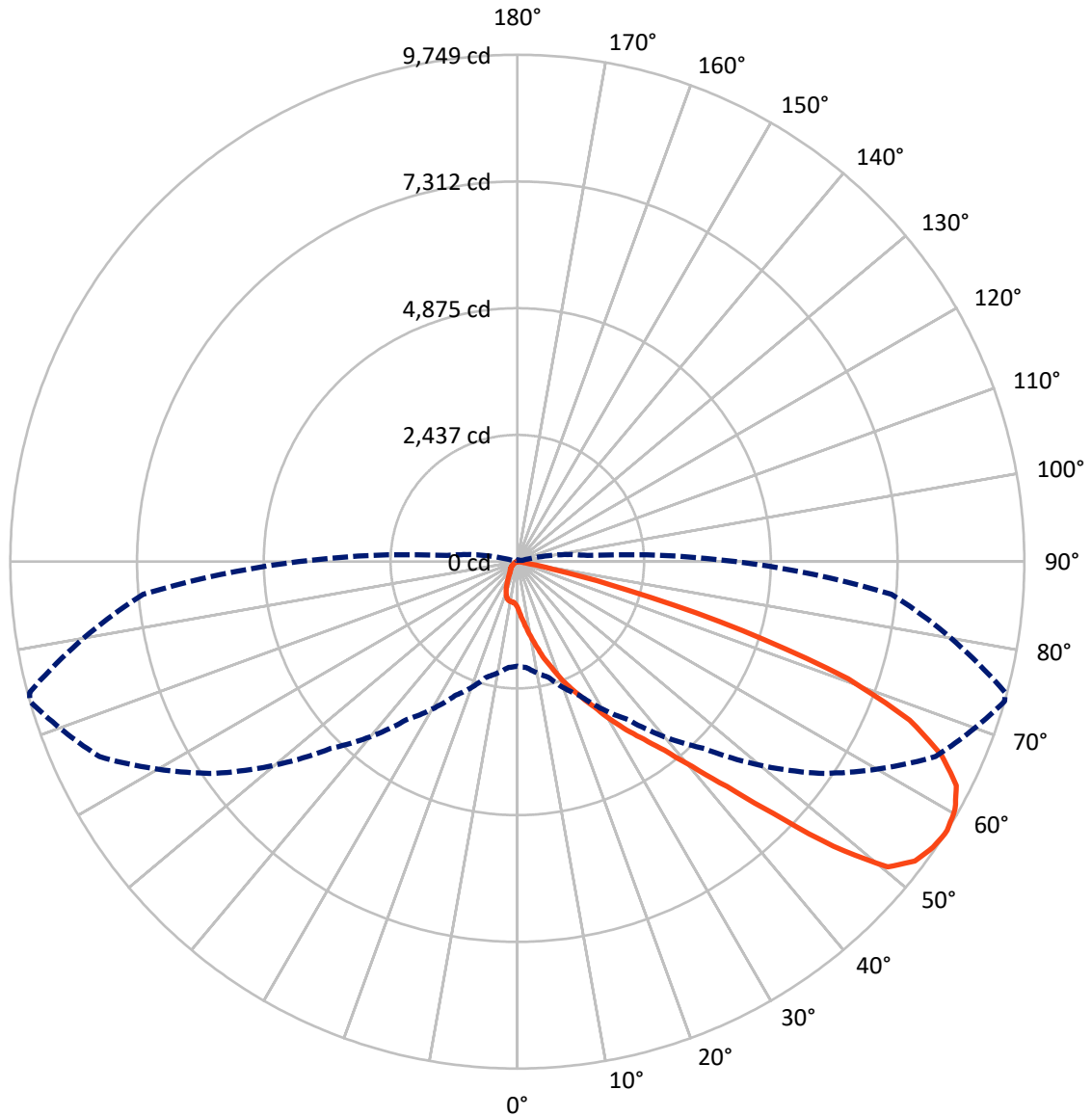
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

REPORT NUMBER: P458706
CATALOG NUMBER: GALN-SA2C-735-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

REPORT NUMBER: P458706

CATALOG NUMBER: GALN-SA2C-735-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	608.1	0.0	608.1
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	9935.9	0.0	9935.9
	% Fixture	94.2	0.0	94.2
Total	Lumens	10544.0	0.0	10544.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.0
10°-20°	420.1	4.0
20°-30°	898.9	8.5
30°-40°	1652.3	15.7
40°-50°	2532.9	24.0
50°-60°	2679.5	25.4
60°-70°	1749.8	16.6
70°-80°	478.1	4.5
80°-90°	25.7	0.2
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°	10544.0	100.0
0°-180°	10544.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458706

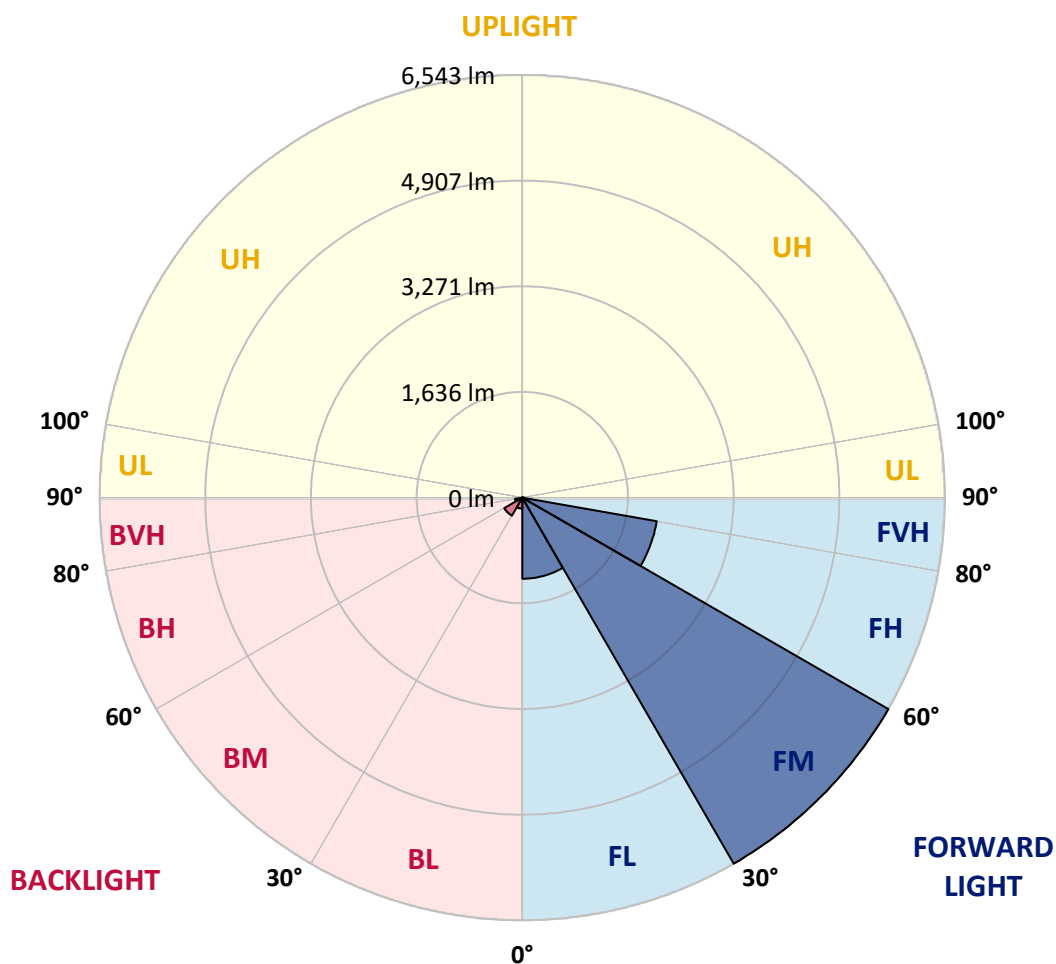
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1255.8	11.9			
FM (30°-60°)	6542.7	62.1			
FH (60°-80°)	2113.7	20.0			G2/5000
FVH (80°-90°)	23.6	0.2			G1/100
BL (0°-30°)	169.9	1.6	B1/500		
BM (30°-60°)	322.0	3.1	B1/1000		
BH (60°-80°)	114.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





REPORT NUMBER: P458706

CATALOG NUMBER: GALN-SA2C-735-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0
2.5°	1292.2	1280.5	1257.2	1249.2	1215.0	1161.9	1115.3	1052.7	1003.2	998.1	938.4
5°	1730.4	1704.2	1693.3	1640.9	1558.6	1481.5	1349.0	1248.5	1132.7	1124.0	1003.9
7.5°	2152.7	2116.3	2105.3	2055.8	1959.7	1838.2	1666.4	1483.6	1300.2	1283.4	1092.0
10°	2458.4	2463.5	2443.8	2411.1	2333.2	2209.4	1997.6	1747.9	1486.5	1465.4	1191.0
12.5°	2677.5	2676.8	2680.4	2679.7	2638.2	2544.3	2321.5	2034.0	1691.8	1650.3	1304.5
15°	2820.2	2822.4	2833.3	2871.2	2875.5	2817.3	2631.7	2307.7	1929.9	1878.2	1427.6
17.5°	2964.4	2979.6	2997.1	3032.8	3064.8	3041.5	2910.5	2593.1	2145.4	2106.8	1559.3
20°	3202.4	3223.5	3213.3	3235.2	3251.9	3254.1	3152.9	2856.6	2406.7	2341.9	1710.0
22.5°	3583.1	3582.4	3556.2	3516.9	3484.1	3482.7	3391.0	3127.4	2644.0	2581.4	1861.5
25°	4064.3	4066.5	4015.6	3903.5	3821.9	3722.2	3616.6	3364.7	2898.1	2820.9	2020.9
27.5°	4616.2	4602.3	4525.2	4370.8	4209.2	4038.9	3886.7	3640.7	3167.5	3103.4	2203.6
30°	5111.9	5106.8	5016.5	4828.0	4615.4	4444.4	4223.8	3986.4	3516.2	3437.5	2408.2
32.5°	5573.5	5580.7	5455.5	5260.4	5055.1	4857.8	4624.9	4317.0	3858.3	3746.9	2630.9
35°	5933.8	5941.1	5811.5	5649.2	5438.1	5274.3	5052.2	4669.3	4196.1	4102.2	2887.2
37.5°	6126.0	6135.5	6060.5	5938.2	5806.4	5724.1	5517.4	5122.8	4606.7	4549.9	3190.0
40°	6162.4	6173.3	6140.6	6107.8	6100.5	6159.5	6099.1	5657.2	5176.0	5087.2	3641.4
42.5°	6053.2	6067.8	6082.3	6155.1	6303.6	6519.8	6730.2	6382.2	5909.1	5789.7	4193.2
45°	5766.4	5764.9	5822.4	6011.0	6343.7	6805.2	7389.8	7290.0	6907.9	6765.9	4972.9
47.5°	5275.7	5268.4	5392.9	5661.5	6179.9	6857.6	7927.8	8392.2	8182.6	8051.5	5810.8
50°	4528.1	4563.7	4759.6	5134.5	5772.9	6698.9	8093.7	9115.1	9228.7	9089.6	6487.8
52.5°	3652.3	3650.8	3958.1	4466.9	5170.2	6349.5	7978.0	9246.1	9568.6	9462.4	6821.2
55°	2703.0	2721.9	3041.5	3554.8	4387.6	5711.8	7600.2	9111.5	9698.2	9623.2	7041.1
57°	2010.7	2044.2	2300.4	2843.5	3706.2	5080.6	7097.1	8870.5	9749.2	9708.4	7223.8
57.5°	1876.7	1878.2	2127.9	2621.5	3506.7	4838.2	6953.0	8770.0	9747.7	9725.2	7253.6
60°	1155.3	1191.7	1364.2	1771.9	2566.9	3776.1	5987.0	8192.7	9672.0	9704.8	7381.0
62.5°	691.6	706.9	819.0	1068.0	1654.7	2756.2	4899.3	7453.8	9474.7	9574.5	7372.3
65°	444.8	448.4	499.4	646.5	1034.5	1862.9	3775.3	6477.6	8964.4	9147.9	7084.0
67.5°	343.6	349.4	369.8	424.4	599.9	1160.4	2670.3	5435.9	8138.9	8375.5	6385.2
70°	305.0	307.9	315.2	332.7	396.8	655.2	1661.3	4246.3	6749.2	6816.1	4996.9
72.5°	249.0	257.0	279.5	285.4	314.5	409.1	924.5	2850.1	4534.6	4551.4	2795.5
75°	192.9	194.4	227.9	244.6	265.0	281.7	412.8	1437.0	2178.1	2061.7	1077.4
77.5°	144.1	150.7	166.0	187.1	216.2	201.7	184.9	541.6	676.3	663.9	313.0
80°	92.5	96.1	115.7	140.5	168.2	131.8	104.1	158.7	148.5	152.9	75.0
82.5°	46.6	47.3	74.3	114.3	107.0	66.2	65.5	64.8	55.3	54.6	34.9
85°	5.1	10.9	48.0	65.5	48.0	21.8	30.6	29.8	29.1	29.8	20.4
87.5°	0.7	0.7	8.0	9.5	6.6	7.3	8.7	9.5	11.6	10.9	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P458706

CATALOG NUMBER: GALN-SA2C-735-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0
2.5°	909.3	880.1	826.3	774.6	736.0	711.2	679.2	667.6	650.8	648.6	640.6
5°	948.6	893.2	799.3	725.1	665.4	620.2	580.9	548.2	522.0	516.1	519.1
7.5°	1004.6	922.4	791.3	690.1	607.1	530.0	467.4	428.8	401.1	390.9	392.4
10°	1068.0	960.9	789.9	653.0	526.3	431.7	363.3	329.0	313.0	307.2	300.7
12.5°	1142.9	1005.3	786.2	595.5	437.5	344.3	295.6	275.2	259.9	255.5	255.5
15°	1227.4	1052.7	768.8	524.1	355.3	284.6	251.9	235.9	230.8	226.4	226.4
17.5°	1315.5	1099.3	732.4	436.1	294.8	243.9	223.5	214.0	206.7	201.7	201.7
20°	1415.9	1145.1	674.1	358.2	249.0	217.7	201.7	190.7	184.9	180.5	179.1
22.5°	1511.3	1182.2	599.9	294.1	216.9	195.8	181.3	169.6	163.8	161.6	161.6
25°	1610.3	1204.8	510.3	243.1	198.0	177.6	161.6	152.1	147.1	145.6	144.9
27.5°	1706.4	1217.9	431.7	212.6	180.5	160.9	145.6	138.3	133.2	131.8	132.5
30°	1822.9	1220.1	355.3	190.7	165.3	144.9	131.0	124.5	121.6	120.1	119.4
32.5°	1940.8	1217.2	298.5	177.6	150.7	131.0	119.4	114.3	112.1	109.9	109.9
35°	2073.3	1201.9	254.1	164.5	136.9	119.4	109.2	104.8	101.9	99.7	99.0
37.5°	2237.8	1193.9	228.6	150.0	124.5	108.5	99.0	94.6	92.5	89.5	88.8
40°	2497.0	1229.6	220.6	136.9	112.1	98.3	89.5	84.4	81.5	78.6	77.9
42.5°	2820.2	1292.2	207.5	123.8	101.2	88.8	80.1	74.3	69.2	65.5	64.1
45°	3238.8	1374.4	187.1	109.9	91.7	78.6	70.6	63.3	56.8	53.9	53.1
47.5°	3677.8	1453.8	168.9	99.0	81.5	69.9	61.2	53.1	47.3	45.1	44.4
50°	3947.1	1469.8	157.2	86.6	71.3	60.4	51.7	44.4	40.8	38.6	38.6
52.5°	4070.2	1444.3	141.2	75.7	61.9	53.1	44.4	38.6	36.4	34.9	34.2
55°	4156.1	1405.0	120.1	65.5	53.1	45.1	39.3	34.9	32.0	30.6	29.8
57°	4206.3	1351.9	104.1	57.5	45.9	39.3	34.9	31.3	28.4	25.5	25.5
57.5°	4208.5	1331.5	99.7	56.8	43.7	37.9	34.2	30.6	26.9	24.0	23.3
60°	4143.7	1191.7	80.1	48.0	34.9	32.0	28.4	24.0	18.9	16.0	15.3
62.5°	3935.5	1014.1	66.2	40.8	28.4	24.8	20.4	18.2	13.1	9.5	9.5
65°	3620.3	822.6	56.8	32.8	23.3	18.2	13.8	13.1	8.0	4.4	3.6
67.5°	3164.6	640.6	48.0	26.9	19.7	13.1	9.5	8.7	4.4	1.5	0.0
70°	2411.1	436.8	40.0	21.8	14.6	9.5	6.6	5.1	2.9	0.7	0.0
72.5°	1389.7	240.2	33.5	16.7	10.9	7.3	5.1	2.9	2.9	0.0	0.0
75°	496.5	103.4	25.5	12.4	8.7	5.8	3.6	1.5	2.2	0.7	0.0
77.5°	158.0	55.3	16.7	9.5	7.3	4.4	2.9	1.5	1.5	0.7	0.0
80°	46.6	29.1	10.2	8.0	5.1	3.6	2.2	0.7	1.5	0.7	0.0
82.5°	25.5	14.6	8.0	5.8	5.1	2.9	2.2	0.7	0.7	0.7	0.0
85°	13.1	8.7	6.6	5.8	5.1	2.9	2.2	0.7	0.0	0.7	0.7
87.5°	7.3	6.6	6.6	5.8	5.1	3.6	2.2	0.7	0.0	0.0	0.0
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)