

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: P648170

Luminaire Tested: **GALN-SA9A-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648170
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24266.7 lumens
Efficiency: N/A
Efficacy: 88.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

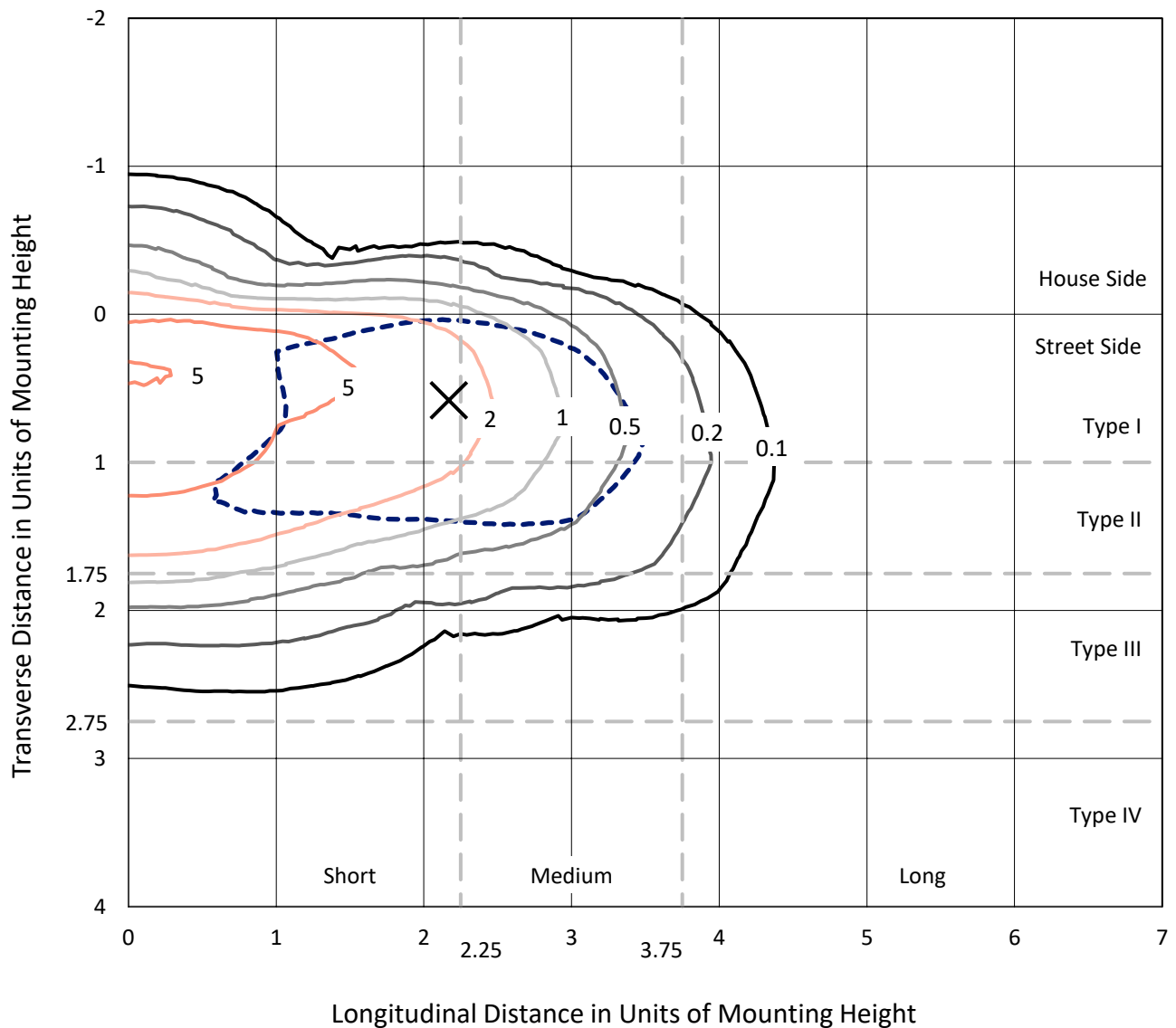
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P648170
 CATALOG NUMBER: GALN-SA9A-835-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

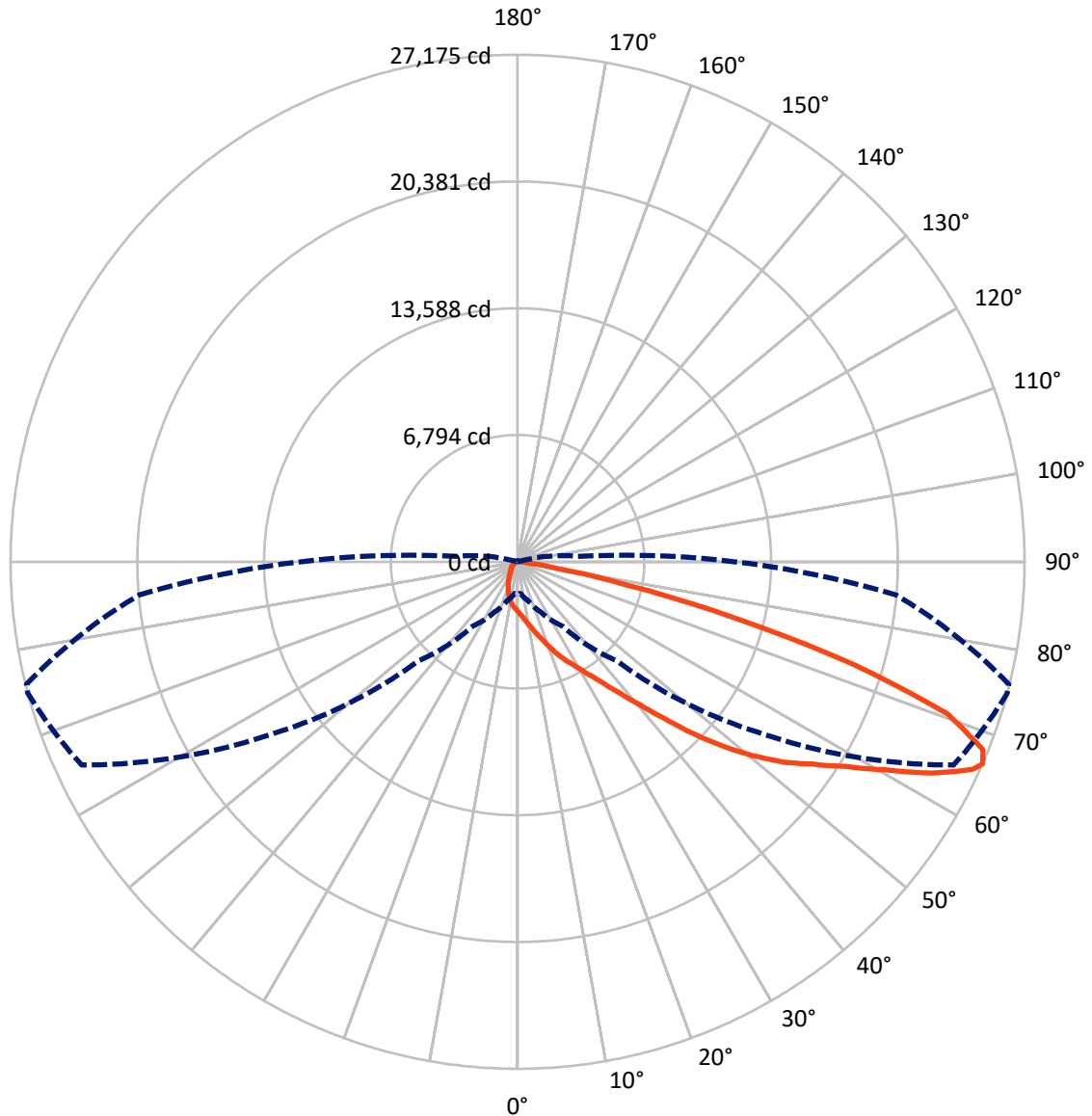
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type II - Short - N/A

REPORT NUMBER: P648170
CATALOG NUMBER: GALN-SA9A-835-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P648170
 CATALOG NUMBER: GALN-SA9A-835-U-T2-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1498.1	0.0	1498.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	22768.6	0.0	22768.6
	% Fixture	93.8	0.0	93.8
Total	Lumens	24266.7	0.0	24266.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.0	1.1
10°-20°	753.3	3.1
20°-30°	1300.8	5.4
30°-40°	2346.4	9.7
40°-50°	4238.8	17.5
50°-60°	6608.3	27.2
60°-70°	6277.7	25.9
70°-80°	2352.7	9.7
80°-90°	132.7	0.5
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°	24266.7	100.0
0°-180°	24266.7	100.0

Coefficient of Utilization

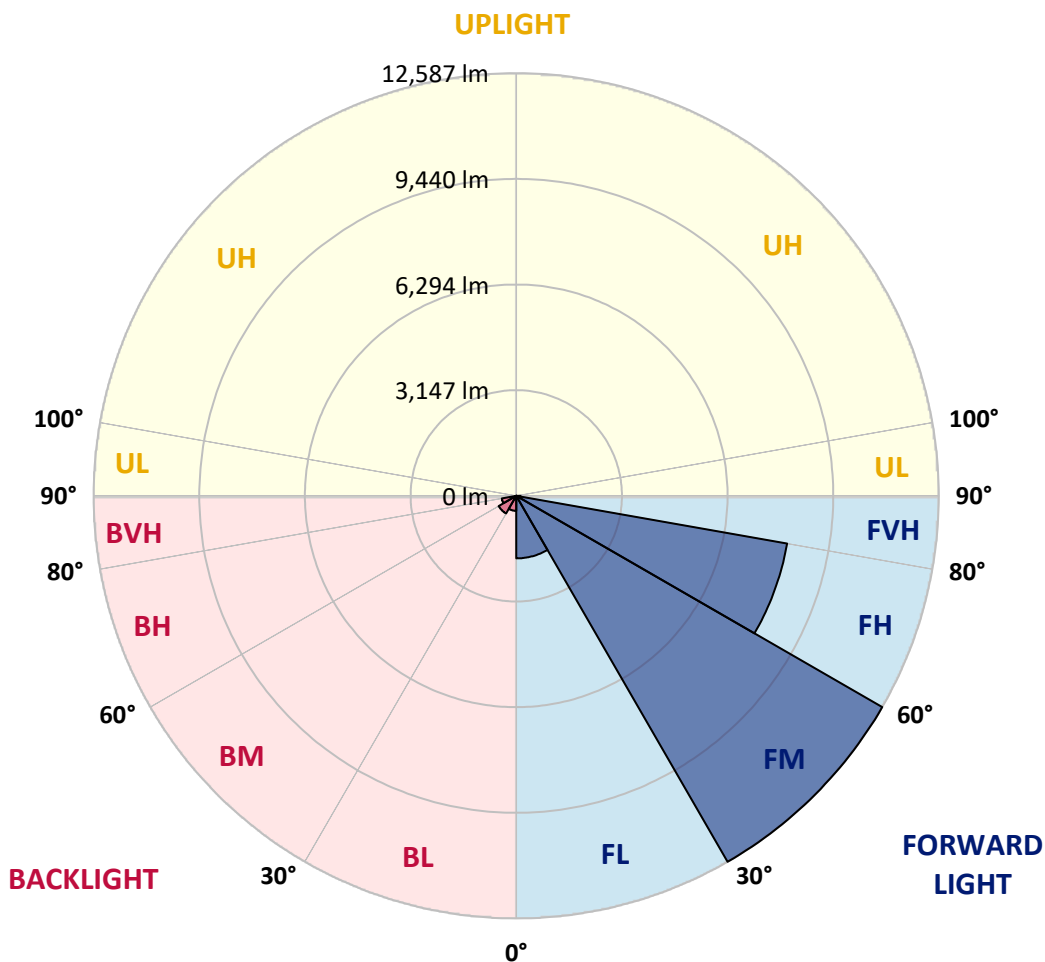


REPORT NUMBER: P648170
 CATALOG NUMBER: GALN-SA9A-835-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1862.7	7.7			
FM (30°-60°)	12587.2	51.9			
FH (60°-80°)	8192.9	33.8			G4/12000
FVH (80°-90°)	125.9	0.5			G2/225
BL (0°-30°)	447.4	1.8	B1/500		
BM (30°-60°)	606.4	2.5	B1/1000		
BH (60°-80°)	437.5	1.8	B1/500		G1/500
BVH (80°-90°)	6.8	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-G4
 Type II Short





REPORT NUMBER: P648170

CATALOG NUMBER: GALN-SA9A-835-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8
2.5°	3170.6	3131.1	3143.7	3125.7	3084.5	3023.5	2969.6	2892.5	2815.3	2802.7	2716.6
5°	3588.6	3577.9	3563.5	3511.5	3482.8	3389.5	3278.3	3145.5	2985.7	2957.1	2800.9
7.5°	3874.0	3868.6	3875.8	3848.8	3823.7	3739.4	3621.0	3439.7	3192.1	3175.9	2915.8
10°	3967.2	3981.6	4008.5	4051.6	4091.1	4064.2	3974.4	3748.4	3459.5	3412.8	3046.7
12.5°	3913.4	3929.6	3994.2	4109.0	4236.4	4309.9	4274.1	4109.0	3743.0	3705.3	3193.9
15°	3775.2	3795.0	3886.5	4064.2	4292.0	4500.1	4589.9	4471.5	4073.1	4012.1	3371.5
17.5°	3570.7	3599.5	3730.4	3965.4	4277.7	4636.5	4889.5	4850.1	4424.8	4367.4	3565.3
20°	3416.4	3437.9	3549.2	3818.3	4216.7	4711.9	5174.8	5286.1	4859.1	4760.3	3793.2
22.5°	3518.6	3525.8	3563.5	3725.0	4107.2	4731.7	5426.0	5740.0	5320.2	5232.2	4030.0
25°	4019.3	3947.5	3909.8	3874.0	4083.9	4713.7	5653.9	6213.7	5779.6	5686.2	4265.1
27.5°	4808.8	4776.5	4586.3	4331.5	4283.1	4737.0	5804.6	6662.3	6211.9	6111.5	4494.8
30°	5668.3	5612.6	5496.0	5122.8	4747.8	4902.1	5914.1	7098.4	6723.3	6590.6	4704.7
32.5°	6457.8	6493.7	6319.6	5935.6	5501.4	5253.8	6055.9	7573.9	7310.1	7145.0	4948.7
35°	7378.3	7450.0	7182.7	6814.8	6307.1	5888.9	6332.2	8110.3	8054.7	7846.6	5325.6
37.5°	8313.1	8356.2	8192.9	7676.1	7218.6	6696.5	6852.5	8772.4	8971.6	8794.0	5776.0
40°	9099.0	9158.2	9038.0	8578.7	8090.6	7631.3	7607.9	9493.8	10062.6	9879.6	6447.0
42.5°	9700.1	9745.0	9748.6	9423.8	8984.2	8776.0	8571.5	10414.3	11429.8	11218.1	7225.8
45°	10459.2	10523.8	10486.0	10265.4	9937.0	9899.3	9793.5	11526.8	13066.3	12798.9	8236.0
47.5°	11632.6	11675.7	11582.4	11322.2	10988.5	11047.7	10984.9	12773.8	14735.0	14505.3	9282.1
50°	12447.3	12519.0	12651.8	12755.9	12513.6	12294.7	12108.1	13938.3	16319.4	16113.0	10351.5
52.5°	12438.3	12556.7	12976.6	13500.5	14029.8	13963.5	13427.0	15224.9	17832.0	17577.2	11356.3
55°	11600.3	11830.0	12447.3	13376.7	14842.6	15572.9	15328.9	16714.2	19138.2	18966.0	12520.8
57.5°	9870.6	10010.6	10868.2	12167.4	14388.7	16330.2	17532.4	18732.7	20704.7	20624.0	14329.4
60°	6639.0	6701.8	7805.3	9411.3	12249.9	15574.7	19147.2	21174.8	22633.6	22594.2	16441.4
62.5°	3804.0	3830.9	4631.1	5985.9	8716.8	13199.0	19283.6	24187.5	24946.5	24968.1	18885.3
65°	2047.3	2061.7	2707.6	3513.3	5304.0	9407.7	17340.4	25838.3	26816.2	26857.4	20399.7
66°	1767.4	1699.2	2155.0	2994.7	4220.3	7487.8	16111.2	25779.1	27175.0	27130.2	20345.9
67.5°	1343.9	1404.9	1720.7	2302.1	3127.5	5323.8	13301.4	24632.5	26902.3	26762.4	19518.7
70°	961.8	986.9	1225.6	1641.8	2129.8	2921.1	8499.7	20458.9	24451.3	24262.9	17004.8
72.5°	620.8	647.8	868.4	1187.8	1539.5	1595.1	4758.5	14781.6	18851.2	18824.3	12806.1
75°	443.2	468.3	574.2	850.5	1157.4	986.9	2291.4	9962.1	11984.3	11903.6	7921.9
77.5°	321.2	333.7	384.0	556.2	827.2	707.0	1062.2	5320.2	5966.1	6247.9	3500.7
80°	184.8	195.6	267.3	339.1	559.8	482.6	507.8	2135.2	2201.6	2095.8	1094.6
82.5°	91.5	104.1	159.7	231.5	349.9	324.8	233.3	642.4	678.2	660.3	276.3
85°	21.5	26.9	89.7	152.5	170.5	145.3	113.1	188.4	233.3	227.9	105.9
87.5°	1.8	3.6	32.3	26.9	28.7	48.5	39.5	48.5	75.3	70.0	37.7
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: P648170
 CATALOG NUMBER: GALN-SA9A-835-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8	2653.8
2.5°	2677.2	2643.0	2544.4	2447.4	2366.7	2282.4	2205.2	2160.4	2142.4	2122.7	2131.6
5°	2714.8	2632.3	2433.1	2260.8	2092.2	1948.7	1833.8	1760.3	1724.3	1719.0	1710.0
7.5°	2765.1	2623.3	2314.7	2045.5	1824.9	1665.1	1534.1	1428.3	1396.0	1367.3	1343.9
10°	2826.1	2607.2	2167.6	1819.5	1584.4	1383.4	1211.1	1085.6	1021.0	1003.0	1015.6
12.5°	2890.7	2576.6	2013.2	1611.3	1340.3	1083.8	924.1	861.3	843.4	836.2	838.0
15°	2955.3	2539.0	1851.7	1410.3	1067.6	864.9	791.3	775.2	768.0	764.4	760.8
17.5°	3014.5	2478.0	1670.5	1214.7	864.9	739.2	712.4	698.0	683.6	678.2	669.3
20°	3084.5	2408.0	1507.2	995.8	732.1	669.3	637.0	610.0	588.5	574.2	572.4
22.5°	3150.9	2318.3	1336.7	825.4	667.5	601.1	549.0	520.4	495.2	477.3	482.6
25°	3186.7	2208.8	1184.3	719.5	608.3	532.9	475.5	439.6	412.7	403.7	401.9
27.5°	3186.7	2074.2	1035.4	658.5	554.4	471.9	412.7	378.6	360.6	348.1	349.9
30°	3161.6	1925.3	897.2	611.8	507.8	418.0	362.5	331.9	317.6	308.7	306.9
32.5°	3141.9	1783.6	778.8	567.0	459.4	371.5	323.0	299.7	285.3	276.3	276.3
35°	3172.4	1661.5	687.2	522.2	414.5	335.5	292.5	270.9	256.6	249.4	247.6
37.5°	3253.1	1550.3	617.2	473.7	373.3	305.1	270.9	245.8	231.5	222.5	218.9
40°	3452.2	1487.5	565.2	428.8	333.7	279.9	245.8	222.5	204.5	195.6	193.8
42.5°	3771.7	1489.3	515.0	387.6	303.3	258.4	224.3	197.4	177.7	168.7	166.9
45°	4252.6	1557.5	475.5	348.1	276.3	235.1	201.0	172.3	154.3	145.3	145.3
47.5°	4828.5	1690.3	441.4	314.0	251.2	213.5	177.7	148.9	131.0	123.8	123.8
50°	5453.0	1862.5	407.3	278.1	229.7	190.2	152.5	129.2	114.9	109.5	109.5
52.5°	6089.9	2070.6	373.3	249.4	206.3	165.1	131.0	114.9	102.3	98.7	96.9
55°	6926.1	2336.2	337.3	218.9	181.3	141.7	116.7	100.5	86.1	80.7	78.9
57.5°	8212.7	2736.4	297.9	192.0	148.9	118.4	100.5	84.3	68.2	59.2	57.4
60°	9764.7	3224.4	256.6	168.7	120.2	96.9	80.7	64.6	50.3	39.5	37.7
62.5°	11218.1	3534.9	217.1	141.7	95.1	73.6	57.4	48.5	35.9	25.1	23.3
65°	11860.5	3430.7	179.5	114.9	75.3	52.1	37.7	34.1	21.5	10.7	9.0
66°	11647.0	3276.5	165.1	104.1	68.2	44.9	32.3	28.7	16.1	5.4	5.4
67.5°	11017.1	2912.2	143.5	89.7	59.2	35.9	25.1	21.5	9.0	1.8	0.0
70°	9439.9	2356.0	113.1	66.4	43.1	25.1	14.3	10.7	5.4	0.0	0.0
72.5°	7250.9	1754.9	89.7	50.3	30.5	14.3	7.2	3.6	5.4	0.0	0.0
75°	4442.7	1003.0	70.0	37.7	19.7	9.0	5.4	0.0	5.4	1.8	0.0
77.5°	1972.0	450.4	46.7	25.1	14.3	7.2	3.6	0.0	3.6	1.8	0.0
80°	498.8	147.1	26.9	17.9	10.7	5.4	1.8	0.0	3.6	3.6	1.8
82.5°	136.4	53.8	19.7	14.3	9.0	5.4	1.8	0.0	3.6	3.6	3.6
85°	53.8	25.1	17.9	14.3	10.7	5.4	1.8	0.0	3.6	3.6	3.6
87.5°	25.1	17.9	17.9	16.1	12.5	5.4	1.8	0.0	3.6	1.8	3.6
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)