

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: P458012

Luminaire Tested: **GALN-SA9B-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27841 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

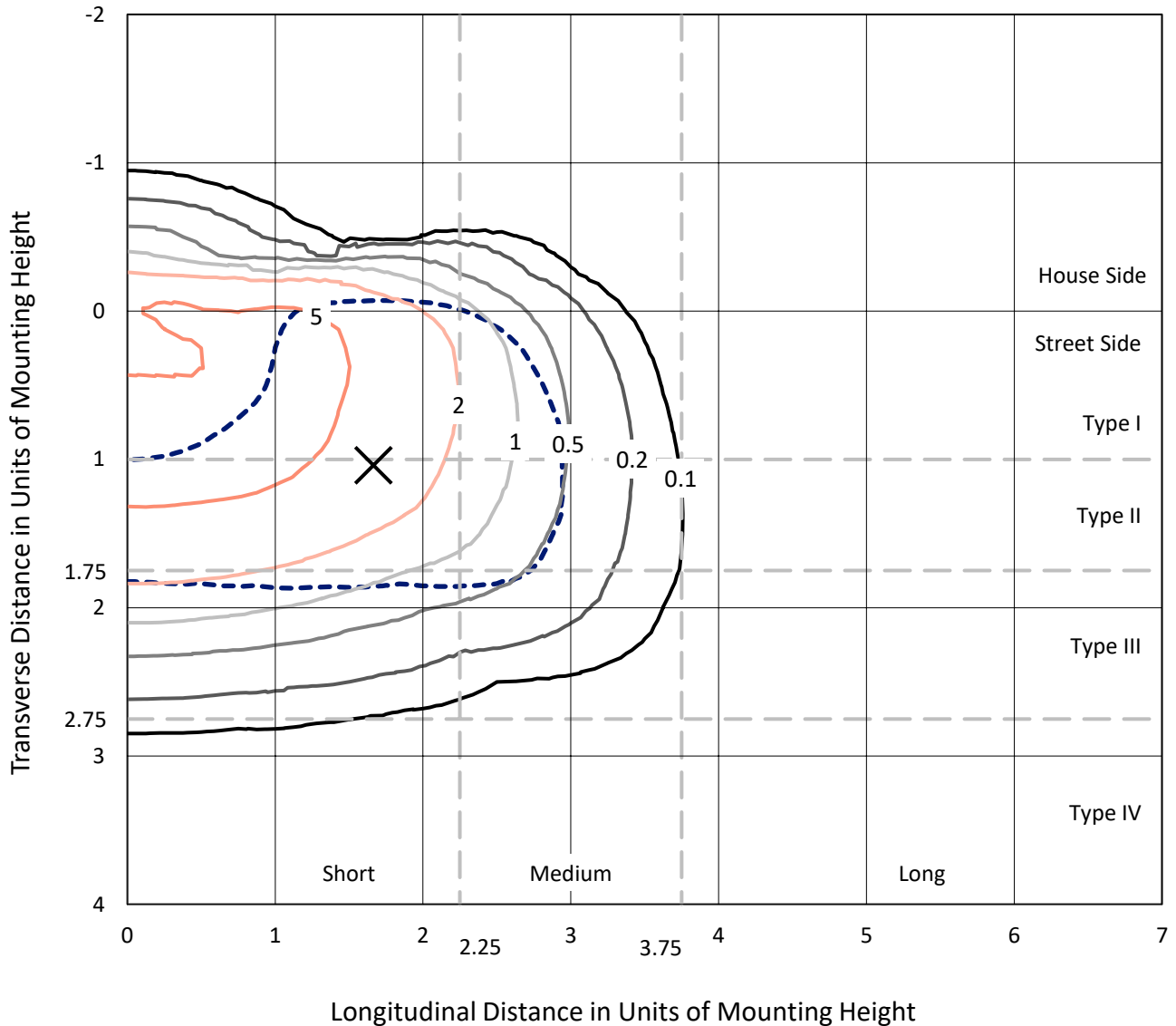
Input Watts (W): 364
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P458012
 CATALOG NUMBER: GALN-SA9B-827-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

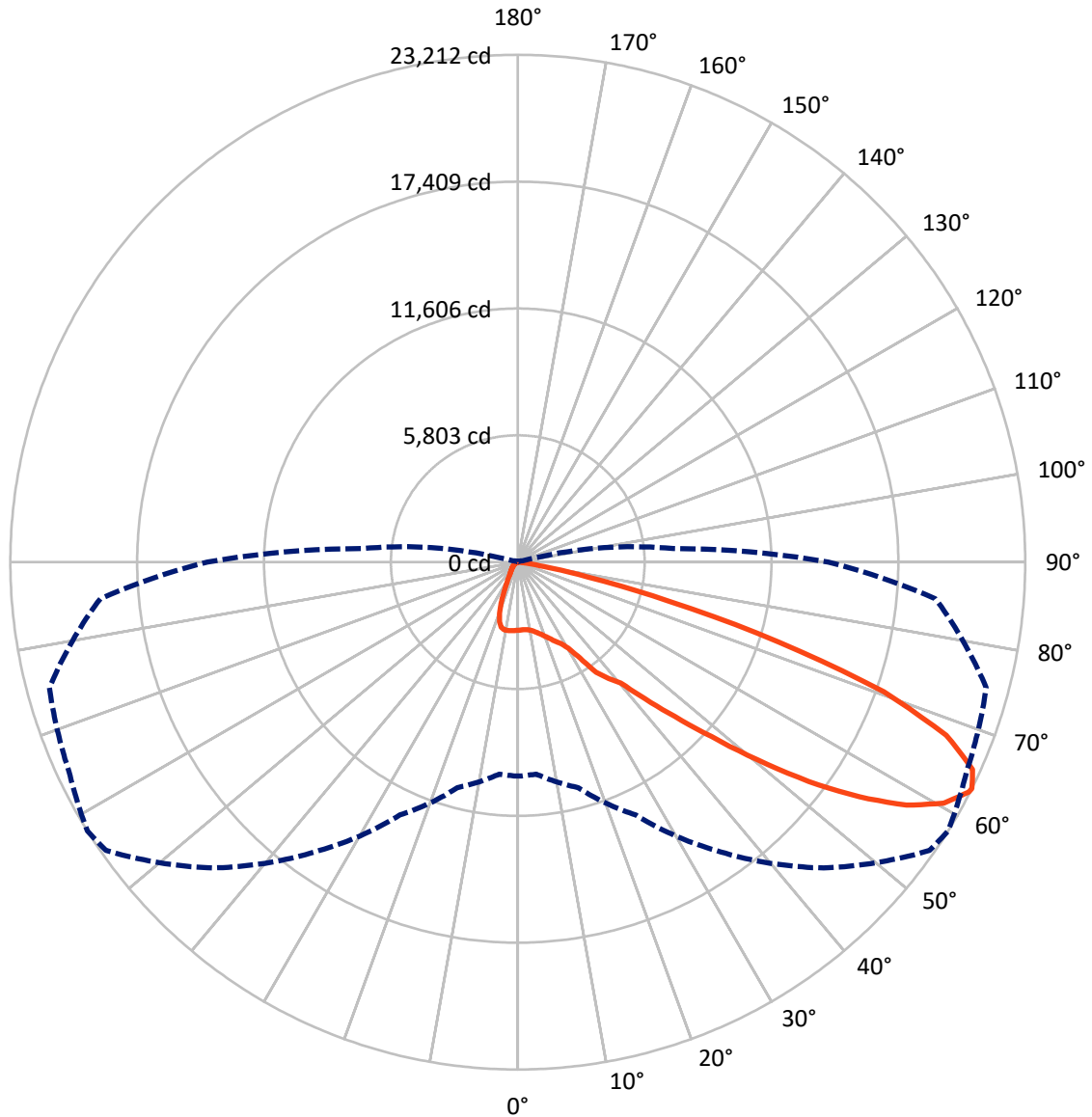
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

REPORT NUMBER: P458012
CATALOG NUMBER: GALN-SA9B-827-U-T3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P458012

CATALOG NUMBER: GALN-SA9B-827-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2882.8	0.0	2882.8
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	24958.3	0.0	24958.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	27841.0	0.0	27841.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	1.0
10°-20°	794.7	2.9
20°-30°	1379.3	5.0
30°-40°	2534.6	9.1
40°-50°	4771.3	17.1
50°-60°	8160.9	29.3
60°-70°	7814.0	28.1
70°-80°	1992.6	7.2
80°-90°	101.9	0.4
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°	27841.0	100.0
0°-180°	27841.0	100.0

Coefficient of Utilization



REPORT NUMBER: P458012

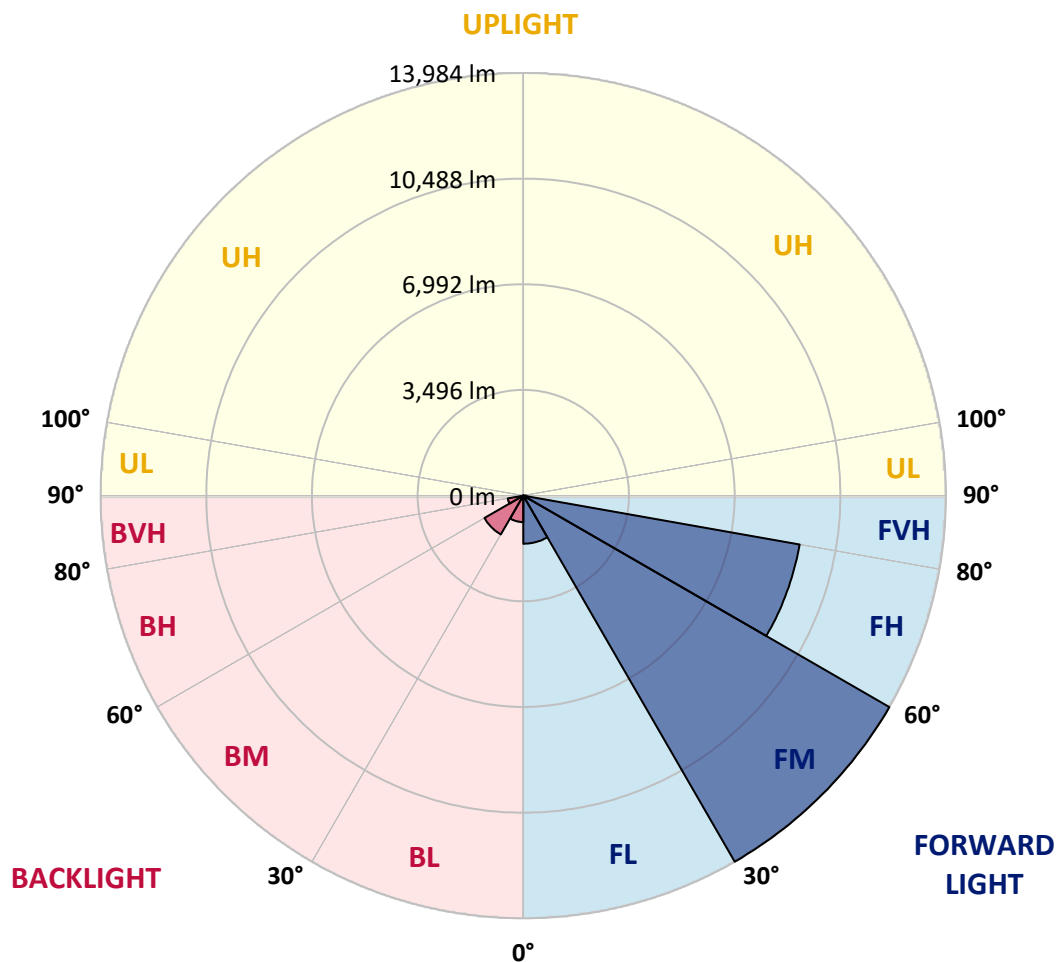
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1591.5	5.7			
FM	(30°-60°)	13984.0	50.2			
FH	(60°-80°)	9284.8	33.3			G4/12000
FVH	(80°-90°)	97.9	0.4			G1/100
BL	(0°-30°)	874.3	3.1	B2/1000		
BM	(30°-60°)	1482.7	5.3	B2/2500		
BH	(60°-80°)	521.8	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Short





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 CATALOG NUMBER: GALN-SA9B-827-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9
2.5°	3039.4	3049.8	3060.3	3064.5	3079.2	3093.9	3104.3	3102.2	3119.0	3127.4	3127.4
5°	2917.8	2917.8	2945.0	2970.2	3012.1	3054.0	3093.9	3102.2	3133.7	3163.0	3173.5
7.5°	2815.1	2821.4	2842.3	2888.4	2945.0	3018.4	3098.0	3116.9	3171.4	3236.4	3263.6
10°	2766.9	2771.1	2798.3	2846.5	2917.8	3018.4	3129.5	3165.1	3249.0	3351.7	3389.4
12.5°	2756.4	2762.7	2789.9	2844.4	2926.2	3047.7	3198.7	3236.4	3358.0	3490.0	3546.6
15°	2775.2	2779.4	2806.7	2865.4	2955.5	3100.1	3290.9	3343.3	3487.9	3640.9	3714.3
17.5°	2842.3	2838.1	2857.0	2905.2	3005.8	3165.1	3402.0	3464.9	3634.6	3844.3	3892.5
20°	3127.4	3100.1	3083.4	3041.4	3081.3	3257.3	3536.1	3628.4	3838.0	4051.8	4085.3
22.5°	3741.5	3680.8	3561.3	3397.8	3272.0	3383.1	3697.5	3804.4	4074.8	4284.4	4284.4
25°	4523.4	4445.8	4326.4	3970.0	3661.9	3590.6	3879.9	4014.0	4332.6	4544.4	4475.2
27.5°	5502.3	5441.5	5208.8	4793.8	4322.2	3953.3	4091.6	4215.3	4561.1	4816.8	4672.2
30°	6298.8	6269.4	6078.7	5707.7	5187.9	4649.2	4485.7	4567.4	4865.1	5160.6	5011.8
32.5°	6971.6	6971.6	6776.7	6430.8	5944.6	5466.6	5154.3	5213.0	5498.1	5839.7	5563.1
35°	7711.6	7686.4	7529.2	7200.1	6655.1	6233.8	6106.0	6185.6	6443.4	6697.1	6015.8
37.5°	8489.2	8480.8	8317.3	7998.7	7554.4	7024.0	6724.3	6745.3	6877.3	7032.4	6546.1
40°	9334.0	9346.5	9132.7	8935.7	8516.5	7973.6	7399.2	7267.2	7390.9	7829.0	7525.0
42.5°	10331.7	10302.4	10210.1	9941.8	9604.4	9279.5	8589.8	8541.6	8650.6	9120.2	8791.1
45°	11490.8	11532.8	11373.5	11224.6	10998.3	10727.9	10151.4	10067.6	10187.1	10916.5	10449.1
47.5°	12652.1	12612.3	12715.0	12687.7	12809.3	12608.1	12098.7	11926.8	12214.0	12905.7	12218.2
50°	13536.6	13580.7	13794.5	14106.8	14628.7	14741.9	14253.5	14194.8	14322.7	14767.1	13800.8
52.5°	14111.0	14257.7	14593.1	15395.9	16337.0	17068.6	16697.6	16666.1	16613.7	16733.2	15314.1
55°	14486.2	14635.0	15073.1	16255.3	17875.6	19064.1	19082.9	18948.8	18602.9	18517.0	16729.0
57.5°	14255.6	14285.0	14909.6	16490.1	18728.7	20487.3	21103.6	20969.4	20330.1	20005.2	17978.3
60°	12813.5	12874.3	13744.2	15601.3	18357.7	20952.7	22443.0	22382.2	21682.1	21315.3	18950.9
62.5°	10258.3	10434.4	11329.4	13400.4	16632.6	20168.7	22985.9	23157.8	22612.8	22107.6	19256.9
63°	9788.8	9732.2	10677.6	12759.0	16175.6	19780.9	22994.3	23212.3	22654.7	22183.1	19173.1
65°	7246.2	7416.0	8030.2	10061.3	13461.2	17976.2	22476.5	22862.2	22499.6	21849.8	18244.5
67.5°	4068.5	4060.2	4739.3	6583.9	9422.0	14100.5	20323.8	21139.2	21063.8	19607.0	15123.4
70°	1991.3	2022.7	2301.5	3412.5	5464.5	9728.0	16888.3	17768.7	17795.9	15400.1	10457.5
72.5°	901.3	916.0	1115.1	1662.2	2808.8	5179.5	11637.6	12478.1	12323.0	9814.0	5774.8
75°	475.8	507.3	614.2	836.3	1354.1	2135.9	6330.2	7143.5	6818.6	4483.6	2125.5
77.5°	352.1	362.6	417.1	532.4	725.3	832.2	2731.2	3249.0	3043.5	1622.4	704.3
80°	257.8	266.2	310.2	377.3	457.0	423.4	1029.2	1180.1	1058.5	551.3	215.9
82.5°	157.2	159.3	226.4	280.9	287.2	236.9	339.6	364.7	381.5	310.2	117.4
85°	56.6	71.3	153.0	203.3	169.8	119.5	142.5	157.2	171.9	197.0	69.2
87.5°	6.3	8.4	73.4	98.5	48.2	44.0	52.4	58.7	62.9	73.4	33.5
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°	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9	3116.9
2.5°	3135.8	3144.2	3137.9	3127.4	3125.3	3119.0	3106.4	3106.4	3106.4	3110.6	3106.4
5°	3181.9	3188.2	3173.5	3152.5	3129.5	3100.1	3068.7	3049.8	3047.7	3043.5	3033.1
7.5°	3269.9	3278.3	3244.8	3194.5	3131.6	3060.3	2993.2	2930.4	2901.0	2878.0	2878.0
10°	3397.8	3406.2	3339.1	3249.0	3123.2	2978.6	2819.3	2674.6	2561.4	2509.0	2496.5
12.5°	3550.8	3555.0	3443.9	3286.7	3079.2	2800.4	2460.8	2144.3	1924.2	1823.6	1813.1
15°	3718.5	3689.1	3542.4	3301.4	2953.4	2433.6	1846.7	1458.9	1230.4	1163.3	1188.5
17.5°	3888.3	3833.8	3617.9	3278.3	2670.4	1846.7	1240.9	995.6	924.4	905.5	905.5
20°	4047.6	3972.1	3672.4	3177.7	2179.9	1272.3	920.2	861.5	848.9	836.3	838.4
22.5°	4206.9	4091.6	3720.6	2953.4	1624.5	909.7	823.8	804.9	788.1	771.4	769.3
25°	4362.0	4202.7	3739.5	2538.4	1106.7	781.8	752.5	727.3	693.8	674.9	670.8
27.5°	4523.4	4336.8	3726.9	2014.4	807.0	700.1	670.8	635.1	595.3	561.8	561.8
30°	4833.6	4592.6	3682.9	1448.4	679.1	616.3	578.5	521.9	477.9	444.4	442.3
32.5°	5257.0	4925.8	3531.9	1018.7	603.7	542.9	486.3	423.4	377.3	352.1	352.1
35°	5634.3	5261.2	3249.0	750.4	542.9	471.6	402.5	341.7	306.0	289.3	283.0
37.5°	6208.7	5751.7	2859.1	610.0	484.2	408.7	337.5	280.9	251.5	239.0	239.0
40°	7070.2	6351.2	2381.2	534.5	427.6	348.0	280.9	236.9	213.8	199.1	199.1
42.5°	8139.2	7084.8	1897.0	480.0	375.2	299.7	234.8	201.2	180.3	169.8	167.7
45°	9484.9	7858.3	1461.0	429.7	333.3	255.7	199.1	169.8	148.8	142.5	144.6
47.5°	10889.3	8539.5	1131.9	385.7	289.3	215.9	169.8	146.7	132.1	123.7	123.7
50°	12088.2	9009.1	859.4	335.4	255.7	182.4	148.8	132.1	119.5	115.3	113.2
52.5°	13090.2	9145.3	658.2	291.4	224.3	157.2	132.1	119.5	109.0	102.7	102.7
55°	13943.3	9025.8	515.6	245.2	188.6	136.2	117.4	106.9	94.3	88.0	85.9
57.5°	14442.2	8642.2	394.1	203.3	153.0	113.2	102.7	90.1	75.5	65.0	65.0
60°	14693.7	8084.7	301.8	167.7	117.4	90.1	83.8	67.1	52.4	44.0	41.9
62.5°	14391.9	7344.8	228.5	132.1	88.0	67.1	56.6	48.2	33.5	25.2	25.2
63°	14205.3	7130.9	220.1	125.8	81.7	62.9	52.4	44.0	29.3	23.1	21.0
65°	12949.7	6198.2	180.3	100.6	65.0	44.0	35.6	31.4	21.0	10.5	8.4
67.5°	10283.5	4741.4	142.5	75.5	46.1	31.4	21.0	18.9	6.3	0.0	0.0
70°	6952.8	3062.4	111.1	54.5	31.4	18.9	10.5	8.4	2.1	0.0	0.0
72.5°	3626.3	1570.0	85.9	39.8	18.9	12.6	6.3	2.1	0.0	0.0	0.0
75°	1282.8	534.5	62.9	25.2	12.6	6.3	2.1	0.0	0.0	0.0	0.0
77.5°	387.8	199.1	39.8	18.9	8.4	4.2	0.0	0.0	0.0	0.0	0.0
80°	136.2	73.4	23.1	12.6	6.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	67.1	35.6	14.7	10.5	6.3	2.1	0.0	0.0	0.0	0.0	0.0
85°	37.7	23.1	12.6	10.5	6.3	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	27.2	16.8	12.6	10.5	8.4	4.2	2.1	0.0	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)