

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: P457635

Luminaire Tested: **GALN-SA9A-727-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457635
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-SA9A-727-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA 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: 25455 lumens
Efficiency: N/A
Efficacy: 92.9 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

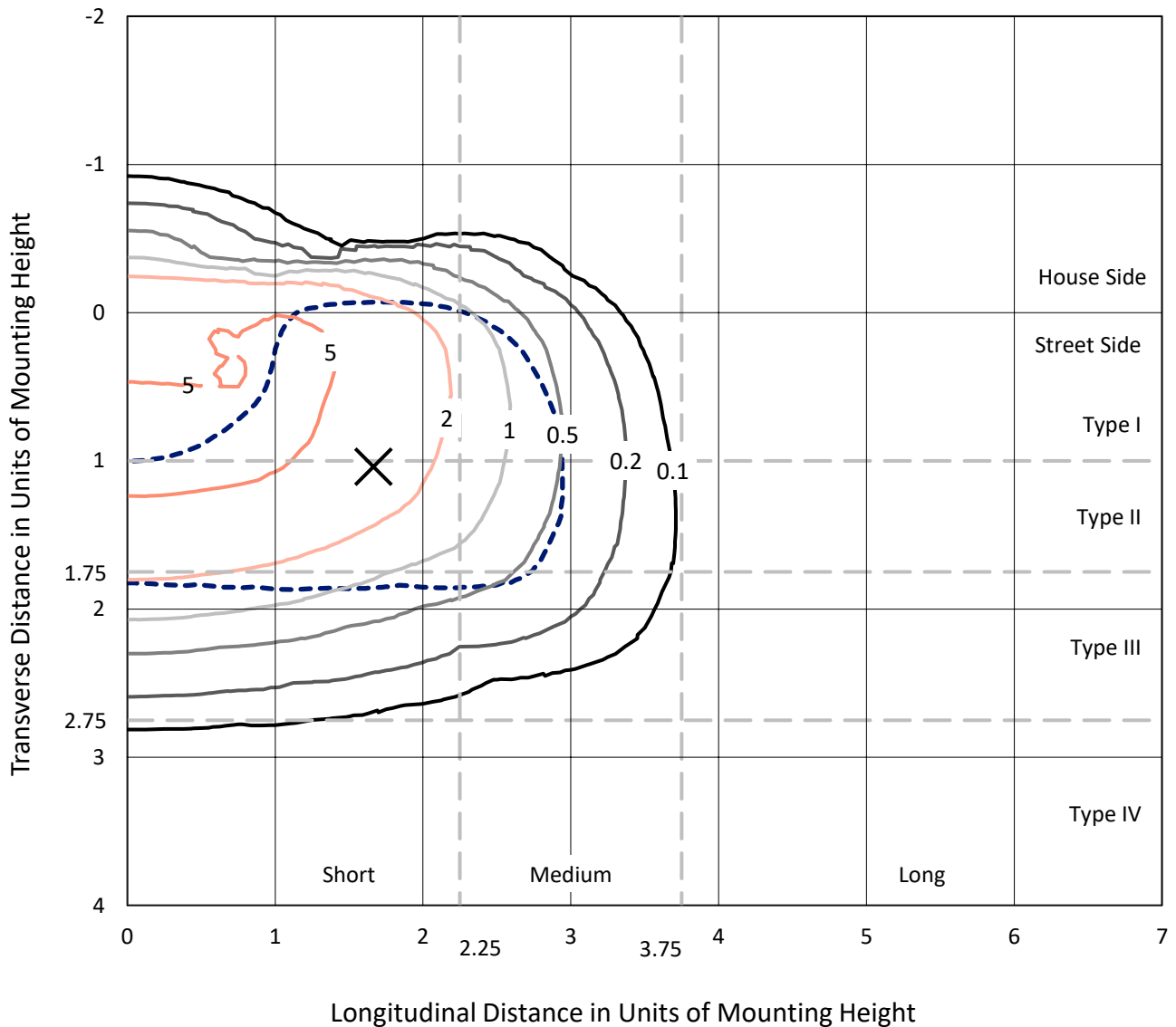
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P457635
 CATALOG NUMBER: GALN-SA9A-727-U-T3-HSS

Iso-Footcandle Lines of Horizontal Illumination

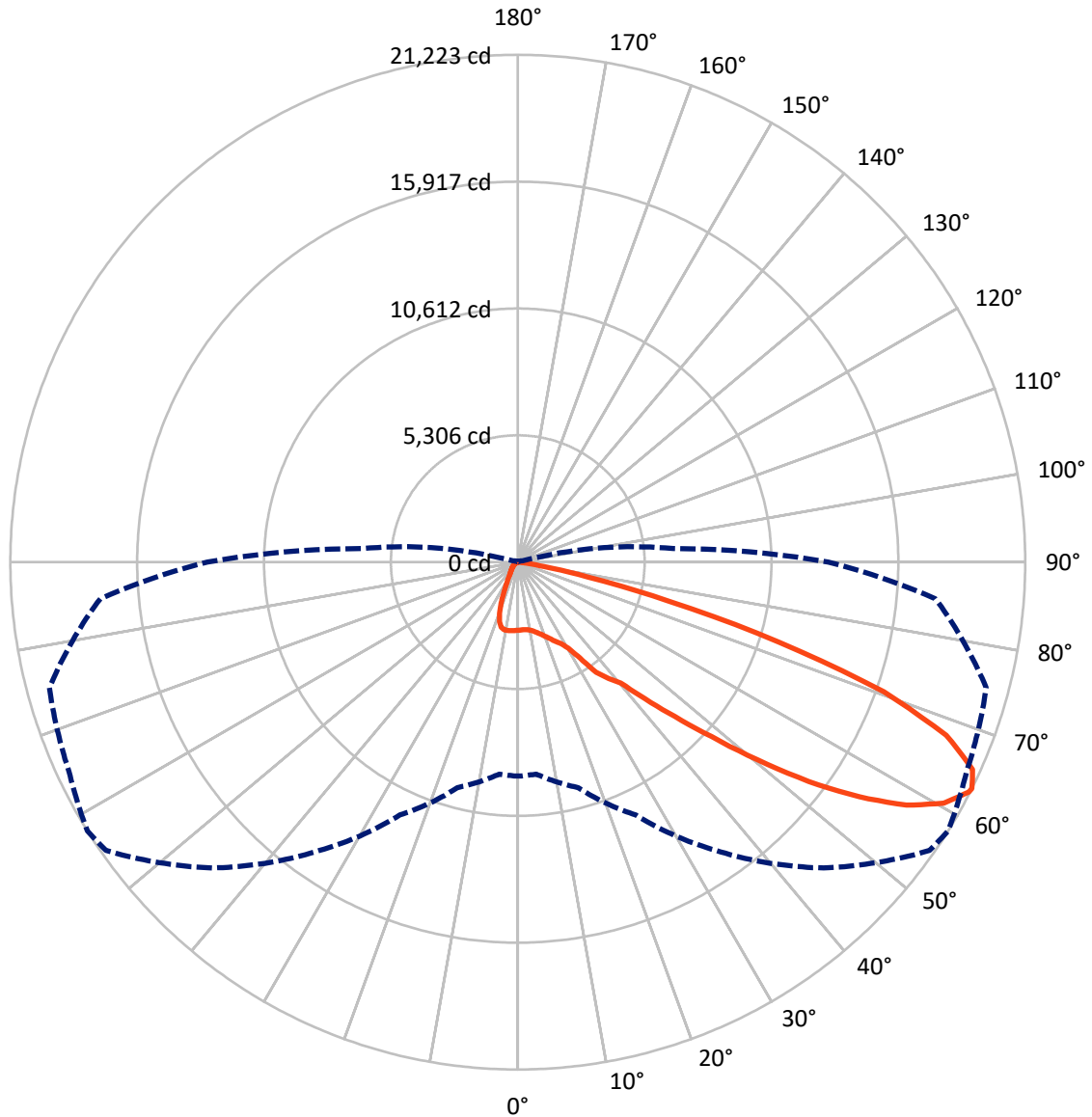
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

REPORT NUMBER: P457635
CATALOG NUMBER: GALN-SA9A-727-U-T3-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P457635

CATALOG NUMBER: GALN-SA9A-727-U-T3-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2635.7	0.0	2635.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	22819.3	0.0	22819.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	25455.0	0.0	25455.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.8	1.0
10°-20°	726.6	2.9
20°-30°	1261.1	5.0
30°-40°	2317.4	9.1
40°-50°	4362.4	17.1
50°-60°	7461.5	29.3
60°-70°	7144.4	28.1
70°-80°	1821.8	7.2
80°-90°	93.2	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°	25455.0	100.0
0°-180°	25455.0	100.0



REPORT NUMBER: P457635

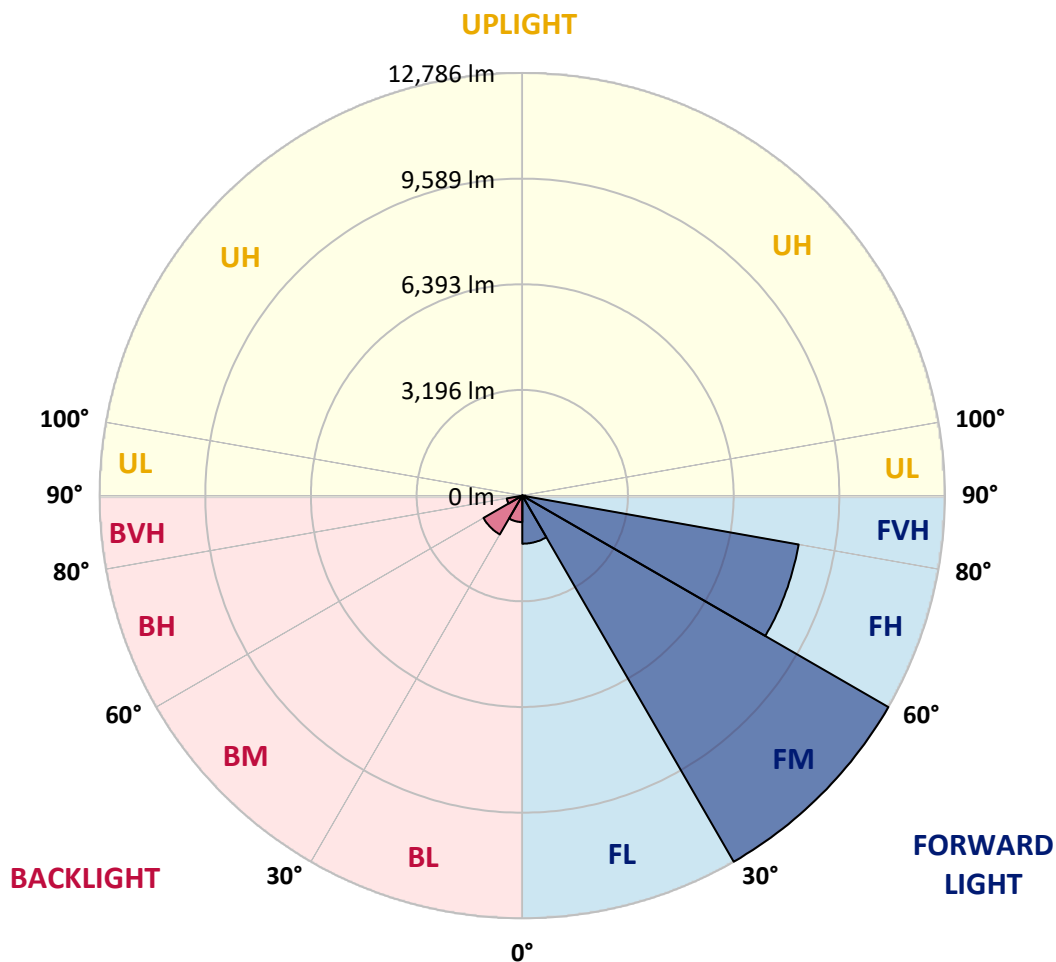
CATALOG NUMBER: GALN-SA9A-727-U-T3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1455.1	5.7			
FM	(30°-60°)	12785.5	50.2			
FH	(60°-80°)	8489.1	33.3			G4/12000
FVH	(80°-90°)	89.5	0.4			G1/100
BL	(0°-30°)	799.3	3.1	B2/1000		
BM	(30°-60°)	1355.7	5.3	B2/2500		
BH	(60°-80°)	477.1	1.9	B1/500		G1/500
BVH	(80°-90°)	3.6	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





REPORT NUMBER: P457635

CATALOG NUMBER: GALN-SA9A-727-U-T3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8
2.5°	2778.9	2788.5	2798.0	2801.9	2815.3	2828.7	2838.3	2836.4	2851.7	2859.4	2859.4
5°	2667.7	2667.7	2692.6	2715.6	2754.0	2792.3	2828.7	2836.4	2865.1	2891.9	2901.5
7.5°	2573.8	2579.6	2598.7	2640.9	2692.6	2759.7	2832.5	2849.8	2899.6	2959.0	2983.9
10°	2529.7	2533.6	2558.5	2602.6	2667.7	2759.7	2861.3	2893.9	2970.5	3064.4	3098.9
12.5°	2520.2	2525.9	2550.8	2600.6	2675.4	2786.5	2924.5	2959.0	3070.2	3190.9	3242.7
15°	2537.4	2541.2	2566.1	2619.8	2702.2	2834.5	3008.9	3056.8	3189.0	3328.9	3396.0
17.5°	2598.7	2594.9	2612.1	2656.2	2748.2	2893.9	3110.4	3167.9	3323.2	3514.8	3558.9
20°	2859.4	2834.5	2819.1	2780.8	2817.2	2978.2	3233.1	3317.4	3509.1	3704.5	3735.2
22.5°	3420.9	3365.3	3256.1	3106.6	2991.6	3093.2	3380.6	3478.4	3725.6	3917.3	3917.3
25°	4135.7	4064.8	3955.6	3629.8	3348.1	3282.9	3547.4	3670.0	3961.3	4154.9	4091.7
27.5°	5030.7	4975.1	4762.4	4383.0	3951.8	3614.5	3740.9	3854.0	4170.2	4404.0	4271.8
30°	5759.0	5732.2	5557.8	5218.5	4743.3	4250.7	4101.2	4176.0	4448.1	4718.3	4582.3
32.5°	6374.2	6374.2	6195.9	5879.7	5435.1	4998.1	4712.6	4766.3	5026.9	5339.3	5086.3
35°	7050.7	7027.7	6883.9	6583.1	6084.8	5699.6	5582.7	5655.5	5891.2	6123.1	5500.3
37.5°	7761.7	7754.0	7604.5	7313.2	6906.9	6422.1	6148.0	6167.2	6287.9	6429.7	5985.1
40°	8534.0	8545.5	8350.0	8169.9	7786.6	7290.2	6765.1	6644.4	6757.5	7158.0	6880.1
42.5°	9446.3	9419.4	9335.1	9089.8	8781.2	8484.2	7853.7	7809.6	7909.3	8338.5	8037.7
45°	10506.1	10544.4	10398.7	10262.7	10055.7	9808.5	9281.4	9204.8	9314.0	9981.0	9553.6
47.5°	11567.8	11531.4	11625.3	11600.4	11711.5	11527.5	11061.8	10904.7	11167.3	11799.7	11171.1
50°	12376.5	12416.8	12612.3	12897.8	13375.0	13478.5	13032.0	12978.3	13095.2	13501.5	12618.0
52.5°	12901.7	13035.8	13342.4	14076.4	14936.9	15605.8	15266.6	15237.8	15189.9	15299.2	14001.7
55°	13244.7	13380.8	13781.3	14862.2	16343.6	17430.3	17447.5	17324.9	17008.6	16930.1	15295.3
57.5°	13033.9	13060.7	13631.8	15076.8	17123.6	18731.5	19295.0	19172.3	18587.8	18290.8	16437.5
60°	11715.4	11770.9	12566.3	14264.3	16784.4	19157.0	20519.6	20464.0	19823.9	19488.5	17326.8
62.5°	9379.2	9540.2	10358.5	12252.0	15207.2	18440.2	21016.0	21173.1	20674.8	20213.0	17606.6
63°	8949.9	8898.2	9762.5	11665.5	14789.4	18085.7	21023.6	21223.0	20713.2	20282.0	17529.9
65°	6625.2	6780.5	7342.0	9199.0	12307.5	16435.6	20550.3	20902.9	20571.4	19977.2	16680.9
67.5°	3719.9	3712.2	4333.1	6019.6	8614.5	12892.1	18582.1	19327.6	19258.6	17926.6	13827.3
70°	1820.6	1849.4	2104.3	3120.0	4996.2	8894.3	15441.0	16245.9	16270.8	14080.3	9561.3
72.5°	824.1	837.5	1019.6	1519.8	2568.1	4735.6	10640.2	11408.7	11266.9	8972.9	5279.9
75°	435.0	463.8	561.5	764.7	1238.0	1952.9	5787.7	6531.3	6234.3	4099.3	1943.3
77.5°	322.0	331.5	381.4	486.8	663.1	760.8	2497.2	2970.5	2782.7	1483.3	643.9
80°	235.7	243.4	283.6	345.0	417.8	387.1	941.0	1079.0	967.8	504.0	197.4
82.5°	143.7	145.7	207.0	256.8	262.6	216.6	310.5	333.5	348.8	283.6	107.3
85°	51.7	65.2	139.9	185.9	155.2	109.2	130.3	143.7	157.2	180.1	63.2
87.5°	5.7	7.7	67.1	90.1	44.1	40.2	47.9	53.7	57.5	67.1	30.7
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: P457635
 CATALOG NUMBER: GALN-SA9A-727-U-T3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8	2849.8
2.5°	2867.0	2874.7	2869.0	2859.4	2857.5	2851.7	2840.2	2840.2	2840.2	2844.0	2840.2
5°	2909.2	2914.9	2901.5	2882.4	2861.3	2834.5	2805.7	2788.5	2786.5	2782.7	2773.1
7.5°	2989.7	2997.4	2966.7	2920.7	2863.2	2798.0	2736.7	2679.2	2652.4	2631.3	2631.3
10°	3106.6	3114.3	3052.9	2970.5	2855.5	2723.3	2577.6	2445.4	2341.9	2294.0	2282.5
12.5°	3246.5	3250.3	3148.8	3005.0	2815.3	2560.4	2249.9	1960.5	1759.3	1667.3	1657.7
15°	3399.8	3373.0	3238.8	3018.4	2700.3	2225.0	1688.4	1333.9	1125.0	1063.6	1086.6
17.5°	3555.0	3505.2	3307.8	2997.4	2441.6	1688.4	1134.5	910.3	845.2	827.9	827.9
20°	3700.7	3631.7	3357.6	2905.4	1993.1	1163.3	841.3	787.7	776.2	764.7	766.6
22.5°	3846.3	3740.9	3401.7	2700.3	1485.3	831.7	753.2	735.9	720.6	705.3	703.3
25°	3988.2	3842.5	3419.0	2320.8	1011.9	714.8	688.0	665.0	634.4	617.1	613.3
27.5°	4135.7	3965.2	3407.5	1841.7	737.8	640.1	613.3	580.7	544.3	513.6	513.6
30°	4419.4	4199.0	3367.2	1324.3	620.9	563.4	528.9	477.2	437.0	406.3	404.4
32.5°	4806.5	4503.7	3229.2	931.4	551.9	496.4	444.6	387.1	345.0	322.0	322.0
35°	5151.5	4810.3	2970.5	686.1	496.4	431.2	368.0	312.4	279.8	264.5	258.7
37.5°	5676.6	5258.8	2614.1	557.7	442.7	373.7	308.6	256.8	230.0	218.5	218.5
40°	6464.2	5806.9	2177.1	488.7	391.0	318.1	256.8	216.6	195.5	182.1	182.1
42.5°	7441.6	6477.7	1734.4	438.9	343.0	274.1	214.6	184.0	164.8	155.2	153.3
45°	8672.0	7184.8	1335.8	392.9	304.7	233.8	182.1	155.2	136.1	130.3	132.2
47.5°	9956.0	7807.7	1034.9	352.6	264.5	197.4	155.2	134.2	120.7	113.1	113.1
50°	11052.3	8237.0	785.8	306.6	233.8	166.7	136.1	120.7	109.2	105.4	103.5
52.5°	11968.3	8361.5	601.8	266.4	205.1	143.7	120.7	109.2	99.7	93.9	93.9
55°	12748.3	8252.3	471.5	224.2	172.5	124.6	107.3	97.7	86.2	80.5	78.6
57.5°	13204.5	7901.6	360.3	185.9	139.9	103.5	93.9	82.4	69.0	59.4	59.4
60°	13434.4	7391.8	276.0	153.3	107.3	82.4	76.7	61.3	47.9	40.2	38.3
62.5°	13158.5	6715.3	208.9	120.7	80.5	61.3	51.7	44.1	30.7	23.0	23.0
63°	12987.9	6519.8	201.2	115.0	74.7	57.5	47.9	40.2	26.8	21.1	19.2
65°	11839.9	5667.0	164.8	92.0	59.4	40.2	32.6	28.7	19.2	9.6	7.7
67.5°	9402.2	4335.0	130.3	69.0	42.2	28.7	19.2	17.2	5.7	0.0	0.0
70°	6356.9	2800.0	101.6	49.8	28.7	17.2	9.6	7.7	1.9	0.0	0.0
72.5°	3315.5	1435.4	78.6	36.4	17.2	11.5	5.7	1.9	0.0	0.0	0.0
75°	1172.9	488.7	57.5	23.0	11.5	5.7	1.9	0.0	0.0	0.0	0.0
77.5°	354.5	182.1	36.4	17.2	7.7	3.8	0.0	0.0	0.0	0.0	0.0
80°	124.6	67.1	21.1	11.5	5.7	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	61.3	32.6	13.4	9.6	5.7	1.9	0.0	0.0	0.0	0.0	0.0
85°	34.5	21.1	11.5	9.6	5.7	3.8	0.0	0.0	0.0	0.0	0.0
87.5°	24.9	15.3	11.5	9.6	7.7	3.8	1.9	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)