

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: P452664

Luminaire Tested: **GALN-SA3C-827-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452664  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-827-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15292 lumens  
Efficiency: N/A  
Efficacy: 95.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

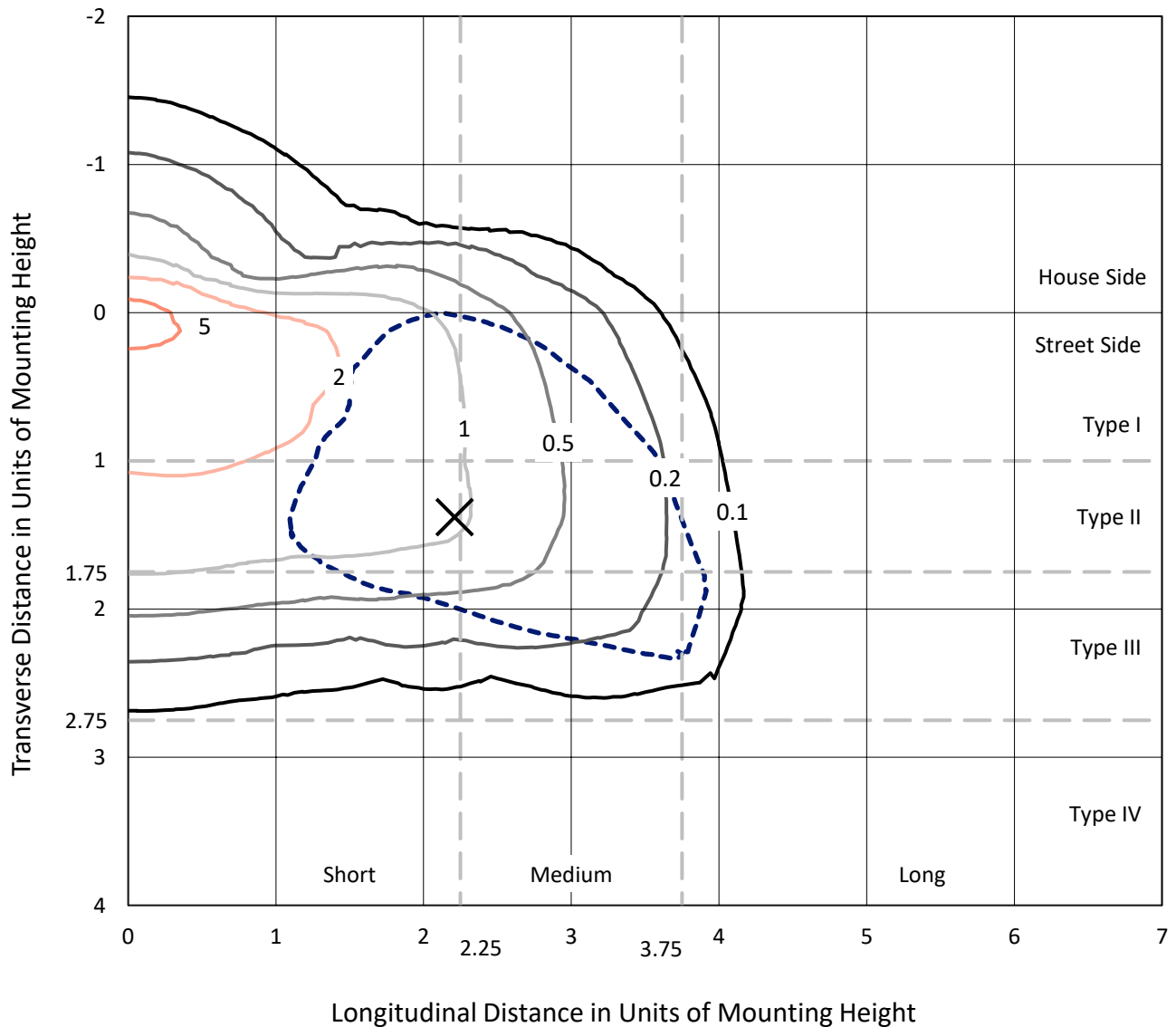
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

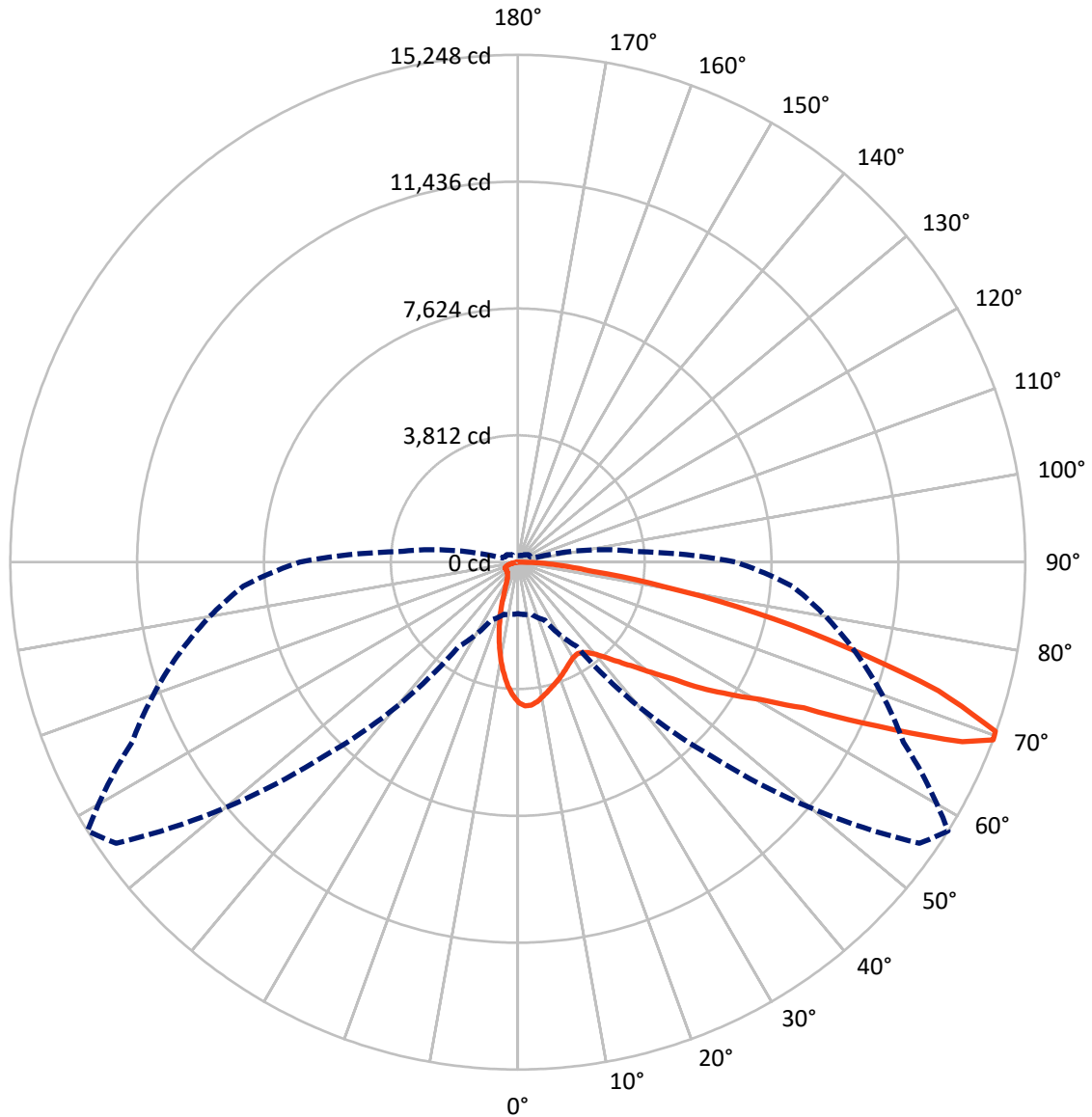
✕ Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2241.0	0.0	2241.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	13051.0	0.0	13051.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	15292.0	0.0	15292.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	358.9	2.3
10°-20°	788.0	5.2
20°-30°	1018.1	6.7
30°-40°	1322.4	8.6
40°-50°	1922.5	12.6
50°-60°	3067.7	20.1
60°-70°	4098.1	26.8
70°-80°	2362.4	15.4
80°-90°	353.8	2.3
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°	15292.0	100.0
0°-180°	15292.0	100.0

**Coefficient of Utilization**



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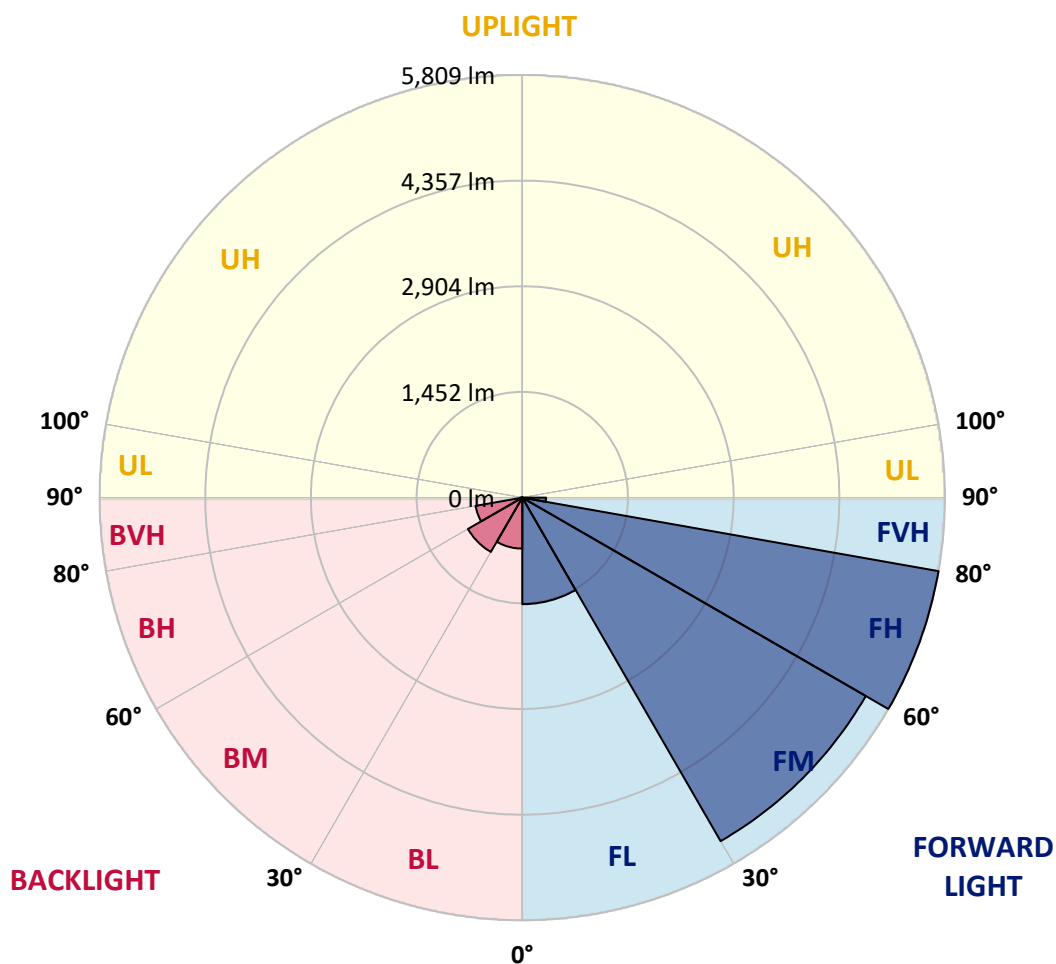
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1464.6	9.6			
FM	(30°-60°)	5450.8	35.6			
FH	(60°-80°)	5808.8	38.0			G3/7500
FVH	(80°-90°)	326.7	2.1			G3/500
BL	(0°-30°)	700.5	4.6	B2/1000		
BM	(30°-60°)	861.8	5.6	B1/1000		
BH	(60°-80°)	651.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	27.1	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8
2.5°	4382.7	4394.7	4391.3	4387.0	4380.2	4361.4	4330.7	4325.6	4306.0	4264.2	4212.2
5°	4315.4	4325.6	4326.4	4332.4	4340.9	4337.5	4315.4	4312.8	4283.8	4227.5	4140.5
7.5°	4084.2	4097.9	4127.7	4161.0	4190.8	4219.0	4225.8	4230.1	4212.2	4147.4	4031.4
10°	3824.1	3837.8	3851.4	3900.9	3974.2	4044.2	4102.2	4109.8	4114.1	4054.4	3912.8
12.5°	3535.9	3564.0	3593.0	3666.4	3764.4	3874.4	3976.8	3993.0	4022.0	3976.8	3810.5
15°	3291.1	3320.1	3361.9	3427.6	3546.1	3704.7	3848.9	3875.3	3932.4	3909.4	3715.0
17.5°	3121.4	3131.6	3160.6	3235.7	3363.6	3530.8	3723.5	3776.4	3867.6	3861.7	3633.1
20°	2987.5	3000.3	3018.2	3064.2	3197.3	3373.8	3606.7	3674.9	3798.5	3819.0	3552.1
22.5°	2931.2	2940.6	2938.0	2962.8	3053.2	3230.6	3488.1	3569.1	3737.1	3790.0	3477.0
25°	2934.6	2943.1	2930.4	2924.4	2978.1	3104.3	3364.4	3467.6	3687.7	3770.4	3408.8
27.5°	2991.8	2997.7	2973.8	2950.0	2954.2	3025.9	3262.1	3376.4	3645.9	3778.9	3351.7
30°	3068.5	3079.6	3064.2	3035.3	3003.7	3007.1	3196.4	3309.0	3626.3	3808.8	3324.4
32.5°	3167.4	3177.7	3170.9	3147.8	3106.9	3061.7	3180.2	3284.3	3628.0	3869.3	3318.4
35°	3271.5	3292.0	3303.0	3301.3	3268.1	3189.6	3244.2	3330.3	3668.9	3970.8	3353.4
37.5°	3389.2	3406.2	3454.0	3484.7	3454.0	3362.7	3388.3	3448.0	3759.3	4117.5	3430.1
40°	3503.5	3529.0	3599.0	3694.5	3682.6	3602.4	3608.4	3647.6	3918.8	4335.8	3580.2
42.5°	3622.9	3653.6	3775.5	3917.1	3945.2	3883.0	3899.2	3934.1	4145.6	4638.6	3837.8
45°	3776.4	3813.0	3963.1	4139.7	4250.5	4212.2	4258.2	4275.3	4449.3	5032.6	4177.2
47.5°	3974.2	4016.9	4201.9	4422.0	4578.9	4613.9	4694.0	4683.8	4825.4	5499.1	4617.3
50°	4307.7	4331.6	4506.4	4730.7	4946.5	5104.2	5191.2	5207.4	5291.9	5952.8	5109.4
52.5°	4704.3	4725.6	4851.8	5047.9	5318.3	5652.6	5867.5	5814.7	5835.1	6505.5	5685.0
55°	5150.3	5186.1	5266.3	5396.8	5747.3	6239.4	6670.9	6683.7	6456.8	7034.2	6236.8
57.5°	5495.7	5556.2	5693.5	5879.5	6323.8	6891.8	7471.7	7480.2	7190.3	7598.8	6845.7
60°	5321.7	5393.3	5707.2	6160.1	7080.3	8030.3	8428.6	8380.0	7904.1	8241.8	7588.6
62.5°	4571.2	4584.0	5040.3	5748.1	7313.1	9553.5	9852.8	9647.3	8856.7	9057.1	8343.3
65°	2958.5	3042.1	3403.7	4395.5	6548.1	10398.7	12348.2	11873.2	10192.3	9982.5	8975.3
67.5°	1867.7	1846.4	1996.5	2509.9	4503.8	9654.1	14477.8	14402.7	11938.9	10566.7	8824.3
69°	1548.8	1572.6	1623.8	1924.0	3099.2	8242.7	14729.4	15247.9	12785.8	10520.6	8275.9
70°	1404.6	1415.7	1469.4	1705.7	2391.4	6903.7	14316.6	15224.9	13118.4	10327.9	7878.5
72.5°	1114.7	1113.8	1205.9	1419.1	1787.5	3941.0	11755.5	13218.1	12746.5	9430.7	6509.7
75°	846.9	860.5	962.0	1200.8	1646.8	2153.4	8203.5	10179.5	10180.3	7448.7	4062.1
77.5°	610.6	619.2	737.7	1008.1	1551.3	1745.8	5464.1	7301.1	6863.6	3413.1	1276.7
80°	400.0	405.1	495.5	798.3	1398.7	1646.8	3239.9	4468.9	3237.4	905.7	422.2
82.5°	219.2	244.8	302.8	516.8	1122.3	1521.5	1969.2	2261.7	1214.4	403.4	220.0
85°	110.0	116.8	170.6	301.9	733.4	1258.8	1371.4	1297.2	626.8	200.4	114.3
87.5°	32.4	40.9	70.8	116.8	297.6	655.8	763.3	684.8	241.4	72.5	23.9
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°	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8	4225.8
2.5°	4190.8	4175.5	4107.3	4045.9	3989.6	3929.9	3879.6	3835.2	3839.5	3840.3	3795.1
5°	4095.3	4060.4	3930.7	3809.6	3707.3	3577.7	3466.8	3395.1	3359.3	3311.6	3328.6
7.5°	3965.7	3898.3	3718.4	3517.1	3328.6	3160.6	2978.1	2852.7	2772.6	2695.0	2705.2
10°	3831.8	3723.5	3461.7	3195.6	2951.7	2683.0	2450.2	2250.6	2102.2	2046.8	2010.1
12.5°	3694.5	3552.1	3219.5	2865.5	2528.7	2207.1	1877.1	1663.0	1499.3	1412.3	1423.4
15°	3569.1	3396.0	2967.0	2535.5	2098.0	1715.1	1385.9	1182.0	1067.8	1043.9	1057.5
17.5°	3453.1	3226.3	2730.8	2214.8	1704.0	1286.1	1041.3	926.2	880.1	867.3	866.5
20°	3333.7	3082.2	2465.6	1872.0	1327.9	997.0	854.5	800.8	792.3	797.4	798.3
22.5°	3212.6	2903.9	2192.6	1531.7	1057.5	815.3	747.1	732.6	739.4	751.4	753.1
25°	3100.9	2747.0	1930.0	1233.2	844.3	716.4	683.1	683.1	698.5	716.4	717.2
27.5°	3008.8	2595.2	1668.2	979.1	707.0	644.7	633.7	639.6	660.9	674.6	675.4
30°	2932.9	2453.6	1420.8	784.6	621.7	587.6	585.0	595.3	610.6	623.4	624.3
32.5°	2875.8	2329.1	1189.7	659.2	562.9	544.1	543.3	550.9	559.5	562.9	566.3
35°	2853.6	2225.9	978.2	579.9	523.6	511.7	511.7	510.9	514.3	516.0	517.7
37.5°	2871.5	2146.6	814.5	528.8	494.6	486.1	481.0	475.9	474.2	474.2	475.0
40°	2947.4	2104.8	692.5	495.5	474.2	461.4	452.0	446.0	440.1	441.8	443.5
42.5°	3108.6	2112.5	609.8	473.3	456.3	438.4	424.7	417.9	413.6	418.7	417.9
45°	3365.3	2189.2	556.9	458.0	438.4	415.3	402.5	395.7	395.7	403.4	406.0
47.5°	3724.3	2335.9	528.8	446.0	424.7	397.4	384.6	379.5	381.2	394.0	394.9
50°	4162.7	2590.9	523.6	440.1	417.9	384.6	370.1	365.0	369.3	382.9	384.6
52.5°	4646.3	2919.3	548.4	440.9	411.9	377.0	358.2	350.5	354.8	365.9	369.3
55°	5219.4	3330.3	612.3	444.3	403.4	372.7	349.7	332.6	337.7	345.4	346.3
57.5°	5804.4	3848.9	724.9	445.2	396.6	365.0	335.2	313.0	313.0	318.1	320.7
60°	6519.1	4413.4	873.3	446.0	397.4	353.9	315.6	290.8	287.4	290.0	290.8
62.5°	7228.7	4885.9	898.0	443.5	406.0	342.8	294.2	268.6	262.7	261.8	260.1
65°	7541.6	4798.1	736.0	431.5	415.3	336.0	277.2	247.3	237.1	233.7	233.7
67.5°	7031.7	4058.7	553.5	415.3	409.4	329.2	261.0	229.4	217.5	210.7	210.7
69°	6552.4	3610.1	497.2	404.2	394.0	318.1	250.7	220.0	205.5	197.9	195.3
70°	6182.2	3301.3	473.3	394.9	379.5	305.3	243.1	213.2	197.0	188.5	186.8
72.5°	4933.7	2590.1	414.5	359.0	323.2	256.7	215.8	191.9	176.5	167.2	164.6
75°	2843.4	1403.8	343.7	312.1	260.1	199.6	182.5	167.2	155.2	146.7	144.1
77.5°	875.0	542.4	249.0	246.5	191.0	154.4	145.8	139.9	131.3	122.0	120.3
80°	368.4	276.3	168.9	166.3	127.1	107.5	104.9	104.0	100.6	93.0	90.4
82.5°	202.1	156.1	117.7	102.3	76.8	62.3	64.8	65.7	63.1	55.4	50.3
85°	98.9	85.3	57.1	46.1	35.0	22.2	21.3	25.6	23.9	17.1	18.8
87.5°	19.6	23.9	15.4	6.8	3.4	0.0	0.0	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)