

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: P458725

Luminaire Tested: **GALN-SA2D-735-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458725  
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-SA2D-735-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3500K, 1200mA 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: 14364 lumens  
Efficiency: N/A  
Efficacy: 114.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

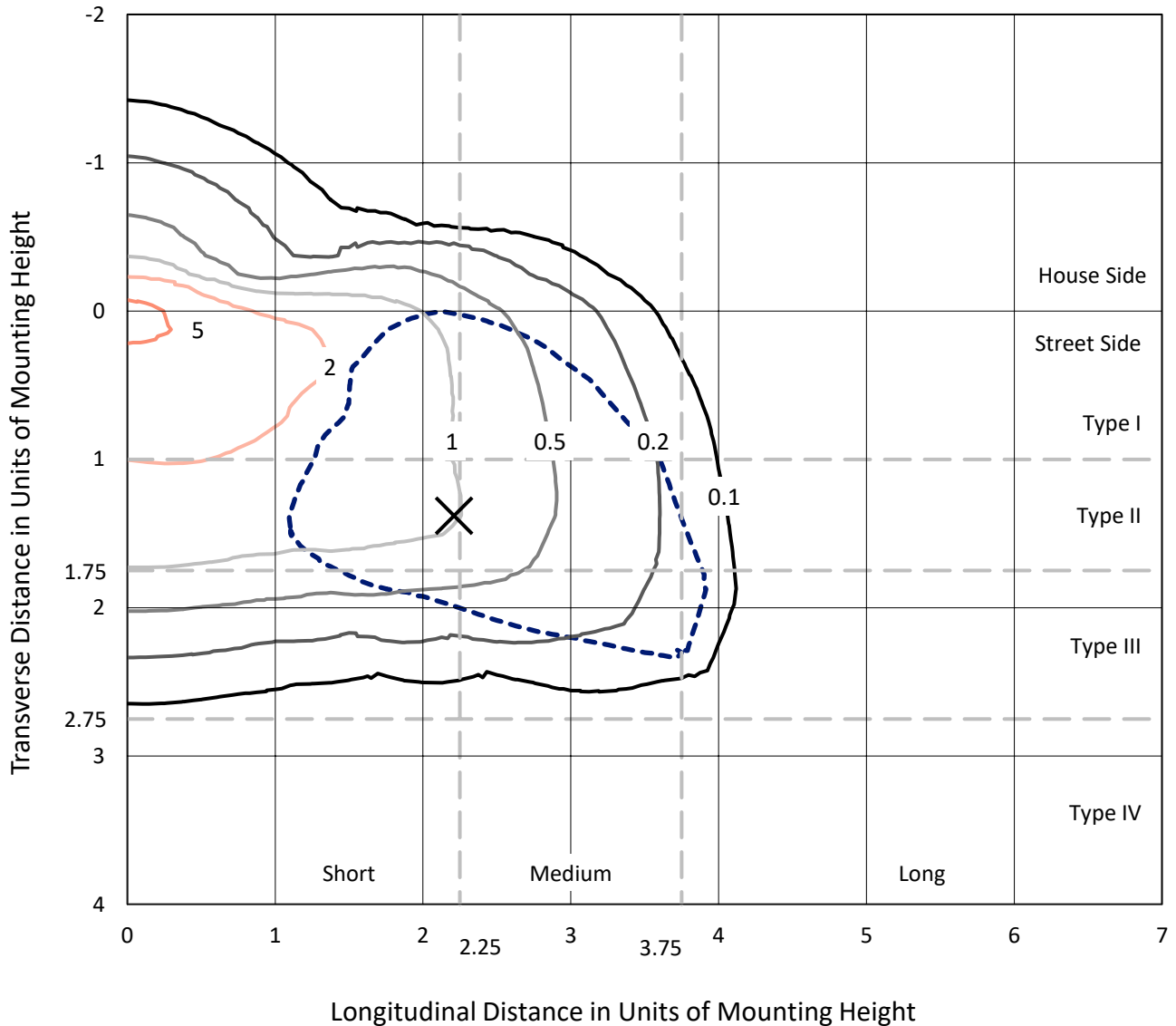
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

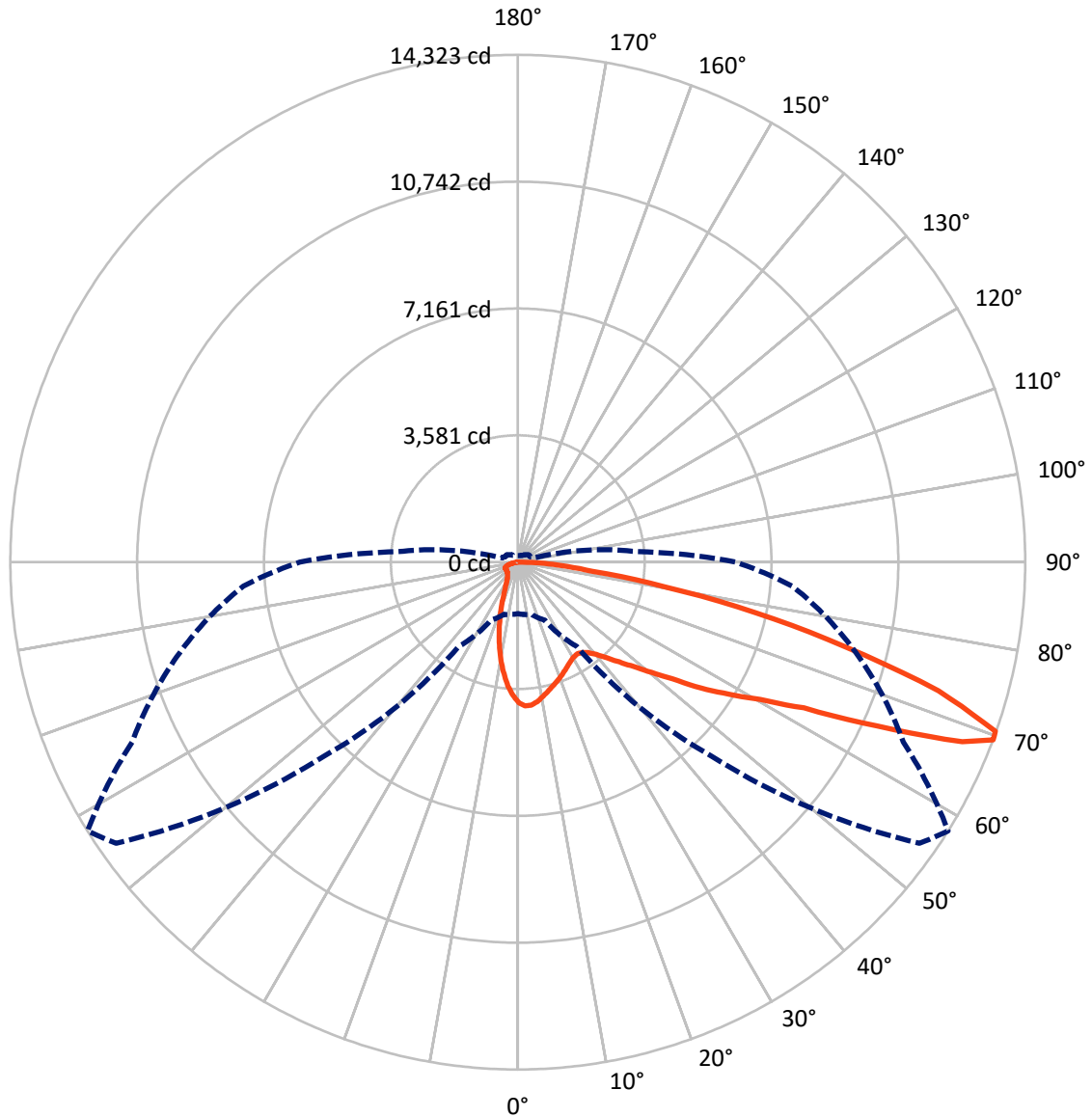
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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	2105.0	0.0	2105.0
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	12259.0	0.0	12259.0
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	14364.0	0.0	14364.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	337.1	2.3
10°-20°	740.2	5.2
20°-30°	956.4	6.7
30°-40°	1242.1	8.6
40°-50°	1805.9	12.6
50°-60°	2881.6	20.1
60°-70°	3849.4	26.8
70°-80°	2219.0	15.4
80°-90°	332.4	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°	14364.0	100.0
0°-180°	14364.0	100.0

**Coefficient of Utilization**



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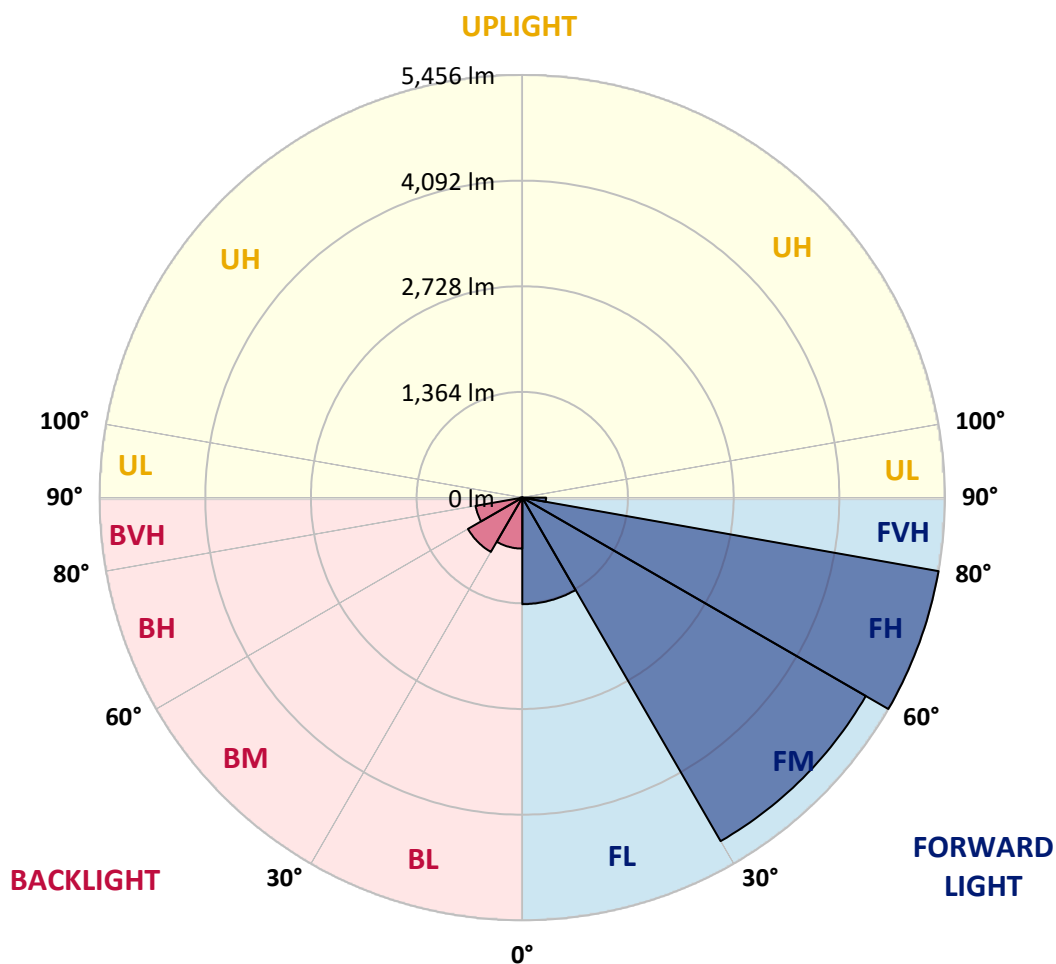
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1375.7	9.6			
FM	(30°-60°)	5120.0	35.6			
FH	(60°-80°)	5456.3	38.0			G3/7500
FVH	(80°-90°)	306.9	2.1			G3/500
BL	(0°-30°)	657.9	4.6	B2/1000		
BM	(30°-60°)	809.5	5.6	B1/1000		
BH	(60°-80°)	612.1	4.3	B2/1000		G2/1000
BVH	(80°-90°)	25.5	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°	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4
2.5°	4116.8	4128.0	4124.8	4120.8	4114.4	4096.7	4067.9	4063.1	4044.7	4005.4	3956.6
5°	4053.5	4063.1	4063.9	4069.5	4077.5	4074.3	4053.5	4051.1	4023.8	3971.0	3889.3
7.5°	3836.4	3849.2	3877.2	3908.5	3936.5	3963.0	3969.4	3973.4	3956.6	3895.7	3786.7
10°	3592.1	3604.9	3617.7	3664.2	3733.0	3798.7	3853.2	3860.4	3864.4	3808.4	3675.4
12.5°	3321.3	3347.7	3375.0	3443.9	3536.0	3639.3	3735.5	3750.7	3777.9	3735.5	3579.2
15°	3091.4	3118.6	3157.9	3219.6	3330.9	3479.9	3615.3	3640.1	3693.8	3672.2	3489.5
17.5°	2932.0	2941.6	2968.8	3039.3	3159.5	3316.5	3497.5	3547.2	3632.9	3627.3	3412.6
20°	2806.2	2818.2	2835.0	2878.3	3003.3	3169.1	3387.8	3451.9	3568.0	3587.3	3336.5
22.5°	2753.3	2762.1	2759.7	2783.0	2867.9	3034.5	3276.4	3352.5	3510.3	3560.0	3266.0
25°	2756.5	2764.5	2752.5	2746.9	2797.4	2915.9	3160.3	3257.2	3463.9	3541.6	3201.9
27.5°	2810.2	2815.8	2793.4	2770.9	2775.0	2842.2	3064.1	3171.5	3424.6	3549.6	3148.3
30°	2882.3	2892.7	2878.3	2851.1	2821.4	2824.6	3002.5	3108.2	3406.2	3577.6	3122.6
32.5°	2975.2	2984.8	2978.4	2956.8	2918.3	2875.9	2987.2	3085.0	3407.8	3634.5	3117.0
35°	3073.0	3092.2	3102.6	3101.0	3069.8	2996.1	3047.3	3128.2	3446.3	3729.8	3149.9
37.5°	3183.5	3199.5	3244.4	3273.2	3244.4	3158.7	3182.7	3238.8	3531.2	3867.6	3222.0
40°	3290.9	3314.9	3380.6	3470.3	3459.1	3383.8	3389.4	3426.2	3681.0	4072.7	3362.9
42.5°	3403.0	3431.8	3546.4	3679.4	3705.8	3647.3	3662.6	3695.4	3894.1	4357.1	3604.9
45°	3547.2	3581.6	3722.6	3888.5	3992.6	3956.6	3999.8	4015.8	4179.3	4727.2	3923.7
47.5°	3733.0	3773.1	3946.9	4153.6	4301.0	4333.9	4409.2	4399.6	4532.5	5165.4	4337.1
50°	4046.3	4068.7	4232.9	4443.6	4646.3	4794.5	4876.2	4891.4	4970.7	5591.6	4799.3
52.5°	4418.8	4438.8	4557.4	4741.6	4995.6	5309.6	5511.5	5461.8	5481.0	6110.7	5340.0
55°	4837.7	4871.4	4946.7	5069.3	5398.5	5860.7	6266.1	6278.1	6065.0	6607.3	5858.3
57.5°	5162.2	5219.1	5348.0	5522.7	5940.0	6473.6	7018.3	7026.3	6753.9	7137.7	6430.3
60°	4998.8	5066.1	5360.9	5786.2	6650.6	7543.0	7917.1	7871.4	7424.4	7741.7	7128.0
62.5°	4293.8	4305.8	4734.4	5399.3	6869.3	8973.7	9254.9	9061.9	8319.3	8507.5	7837.0
65°	2779.0	2857.5	3197.1	4128.8	6150.7	9767.6	11598.9	11152.7	9573.7	9376.7	8430.6
67.5°	1754.4	1734.3	1875.3	2357.6	4230.5	9068.3	13599.2	13528.7	11214.4	9925.4	8288.8
69°	1454.8	1477.2	1525.3	1807.2	2911.1	7742.5	13835.5	14322.6	12009.8	9882.2	7773.7
70°	1319.4	1329.8	1380.3	1602.2	2246.2	6484.8	13447.8	14300.9	12322.3	9701.1	7400.4
72.5°	1047.0	1046.2	1132.7	1333.0	1679.1	3701.8	11042.1	12416.0	11973.0	8858.4	6114.7
75°	795.5	808.3	903.6	1127.9	1546.9	2022.7	7705.6	9561.7	9562.5	6996.7	3815.6
77.5°	573.6	581.6	692.9	946.9	1457.2	1639.8	5132.5	6858.1	6447.1	3205.9	1199.2
80°	375.7	380.5	465.4	749.8	1313.8	1546.9	3043.3	4197.7	3040.9	850.8	396.5
82.5°	205.9	229.9	284.4	485.5	1054.2	1429.1	1849.7	2124.5	1140.7	378.9	206.7
85°	103.3	109.7	160.2	283.6	688.9	1182.4	1288.1	1218.4	588.8	188.3	107.3
87.5°	30.4	38.5	66.5	109.7	279.6	616.0	717.0	643.3	226.7	68.1	22.4
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°	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4	3969.4
2.5°	3936.5	3922.1	3858.0	3800.3	3747.5	3691.4	3644.1	3602.5	3606.5	3607.3	3564.8
5°	3846.8	3814.0	3692.2	3578.4	3482.3	3360.5	3256.4	3189.1	3155.5	3110.6	3126.6
7.5°	3725.0	3661.8	3492.7	3303.7	3126.6	2968.8	2797.4	2679.6	2604.3	2531.4	2541.0
10°	3599.3	3497.5	3251.6	3001.7	2772.5	2520.2	2301.5	2114.1	1974.7	1922.6	1888.2
12.5°	3470.3	3336.5	3024.1	2691.6	2375.2	2073.2	1763.2	1562.1	1408.3	1326.6	1337.0
15°	3352.5	3189.9	2787.0	2381.6	1970.7	1611.0	1301.8	1110.3	1003.0	980.5	993.3
17.5°	3243.6	3030.5	2565.1	2080.4	1600.6	1208.0	978.1	870.0	826.7	814.7	813.9
20°	3131.4	2895.1	2315.9	1758.4	1247.3	936.5	802.7	752.2	744.2	749.0	749.8
22.5°	3017.7	2727.7	2059.6	1438.7	993.3	765.8	701.7	688.1	694.5	705.8	707.4
25°	2912.7	2580.3	1812.9	1158.4	793.1	672.9	641.7	641.7	656.1	672.9	673.7
27.5°	2826.2	2437.7	1566.9	919.6	664.1	605.6	595.2	600.8	620.8	633.7	634.5
30°	2754.9	2304.7	1334.6	737.0	584.0	551.9	549.5	559.2	573.6	585.6	586.4
32.5°	2701.3	2187.8	1117.5	619.2	528.7	511.1	510.3	517.5	525.5	528.7	531.9
35°	2680.4	2090.8	918.8	544.7	491.9	480.7	480.7	479.8	483.1	484.7	486.3
37.5°	2697.2	2016.3	765.0	496.7	464.6	456.6	451.8	447.0	445.4	445.4	446.2
40°	2768.5	1977.1	650.5	465.4	445.4	433.4	424.6	419.0	413.4	415.0	416.6
42.5°	2919.9	1984.3	572.8	444.6	428.6	411.8	398.9	392.5	388.5	393.3	392.5
45°	3161.1	2056.4	523.1	430.2	411.8	390.1	378.1	371.7	371.7	378.9	381.3
47.5°	3498.3	2194.2	496.7	419.0	398.9	373.3	361.3	356.5	358.1	370.1	370.9
50°	3910.1	2433.7	491.9	413.4	392.5	361.3	347.7	342.9	346.9	359.7	361.3
52.5°	4364.3	2742.1	515.1	414.2	386.9	354.1	336.5	329.2	333.3	343.7	346.9
55°	4902.6	3128.2	575.2	417.4	378.9	350.1	328.4	312.4	317.2	324.4	325.2
57.5°	5452.2	3615.3	680.9	418.2	372.5	342.9	314.8	294.0	294.0	298.8	301.2
60°	6123.5	4145.6	820.3	419.0	373.3	332.4	296.4	273.2	270.0	272.4	273.2
62.5°	6790.0	4589.4	843.5	416.6	381.3	322.0	276.4	252.3	246.7	245.9	244.3
65°	7084.0	4506.9	691.3	405.3	390.1	315.6	260.4	232.3	222.7	219.5	219.5
67.5°	6604.9	3812.4	519.9	390.1	384.5	309.2	245.1	215.5	204.3	197.9	197.9
69°	6154.7	3391.0	467.0	379.7	370.1	298.8	235.5	206.7	193.1	185.9	183.4
70°	5807.1	3101.0	444.6	370.9	356.5	286.8	228.3	200.3	185.1	177.0	175.4
72.5°	4634.3	2432.9	389.3	337.3	303.6	241.1	202.7	180.2	165.8	157.0	154.6
75°	2670.8	1318.6	322.8	293.2	244.3	187.5	171.4	157.0	145.8	137.8	135.4
77.5°	821.9	509.5	233.9	231.5	179.4	145.0	137.0	131.4	123.4	114.6	113.0
80°	346.1	259.6	158.6	156.2	119.4	100.9	98.5	97.7	94.5	87.3	84.9
82.5°	189.9	146.6	110.5	96.1	72.1	58.5	60.9	61.7	59.3	52.1	47.3
85°	92.9	80.1	53.7	43.3	32.8	20.8	20.0	24.0	22.4	16.0	17.6
87.5°	18.4	22.4	14.4	6.4	3.2	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)