

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: P452287

Luminaire Tested: **GALN-SA3B-727-U-SL3**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452287  
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-SA3B-727-U-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 800mA 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: 14080 lumens  
Efficiency: N/A  
Efficacy: 116.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G3

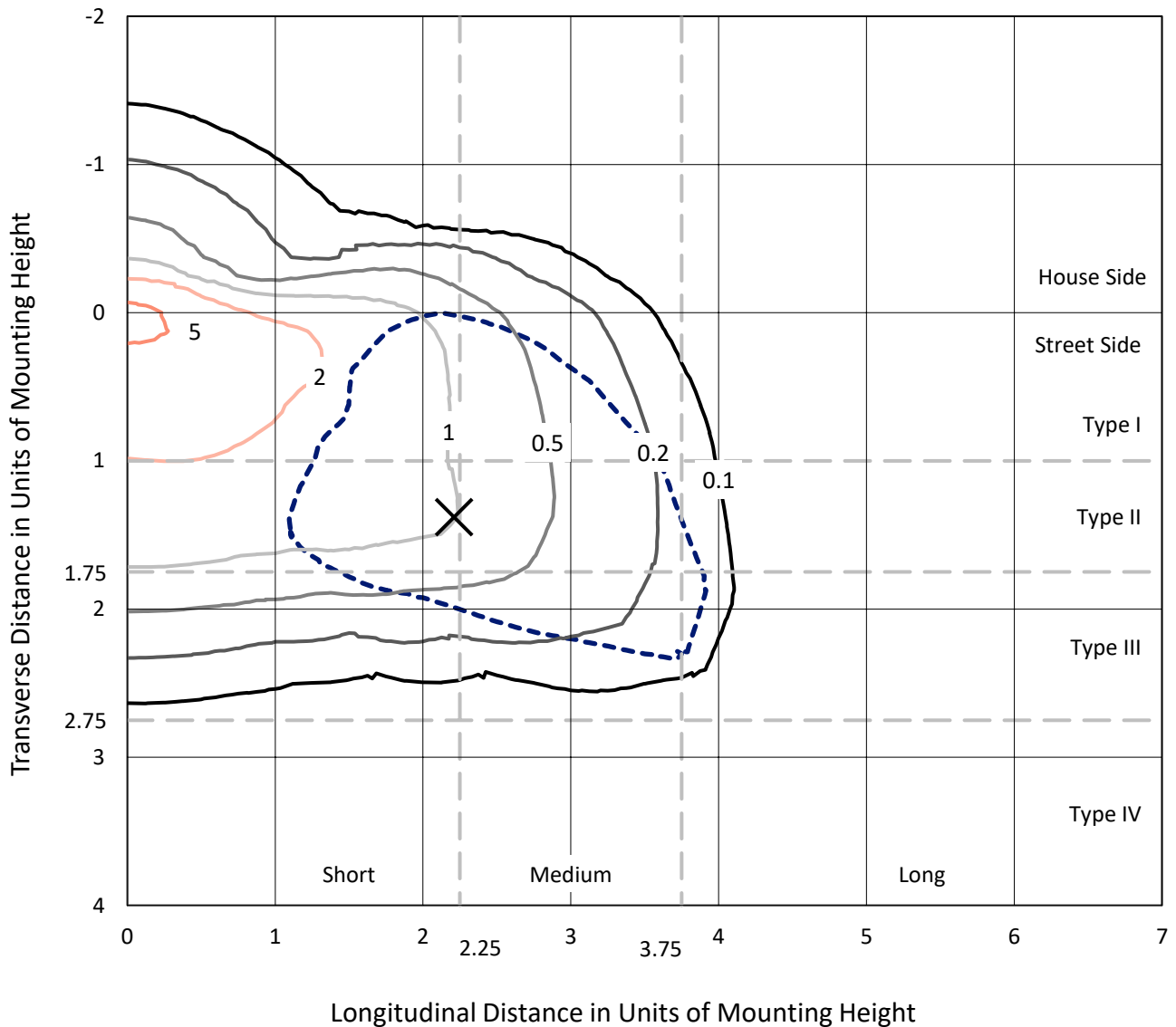
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452287  
 CATALOG NUMBER: GALN-SA3B-727-U-SL3

### Iso-Footcandle Lines of Horizontal Illumination

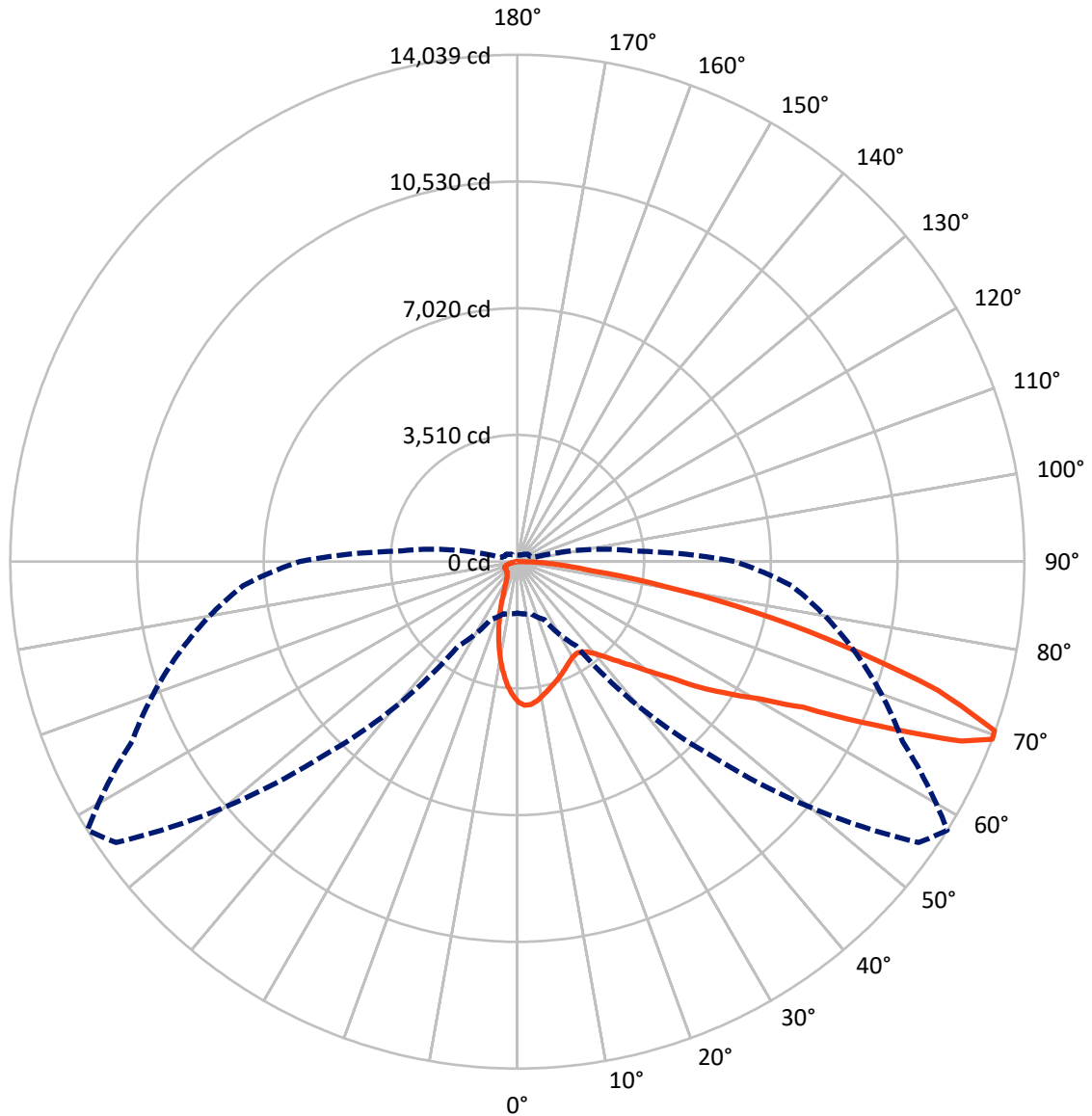
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P452287  
CATALOG NUMBER: GALN-SA3B-727-U-SL3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P452287

CATALOG NUMBER: GALN-SA3B-727-U-SL3

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2063.4	0.0	2063.4
	% Fixture	14.7	0.0	14.7
<b>Street Side</b>	Lumens	12016.6	0.0	12016.6
	% Fixture	85.3	0.0	85.3
<b>Total</b>	Lumens	14080.0	0.0	14080.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.4	2.3
10°-20°	725.6	5.2
20°-30°	937.4	6.7
30°-40°	1217.6	8.6
40°-50°	1770.2	12.6
50°-60°	2824.6	20.1
60°-70°	3773.3	26.8
70°-80°	2175.1	15.4
80°-90°	325.8	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°	14080.0	100.0
0°-180°	14080.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452287

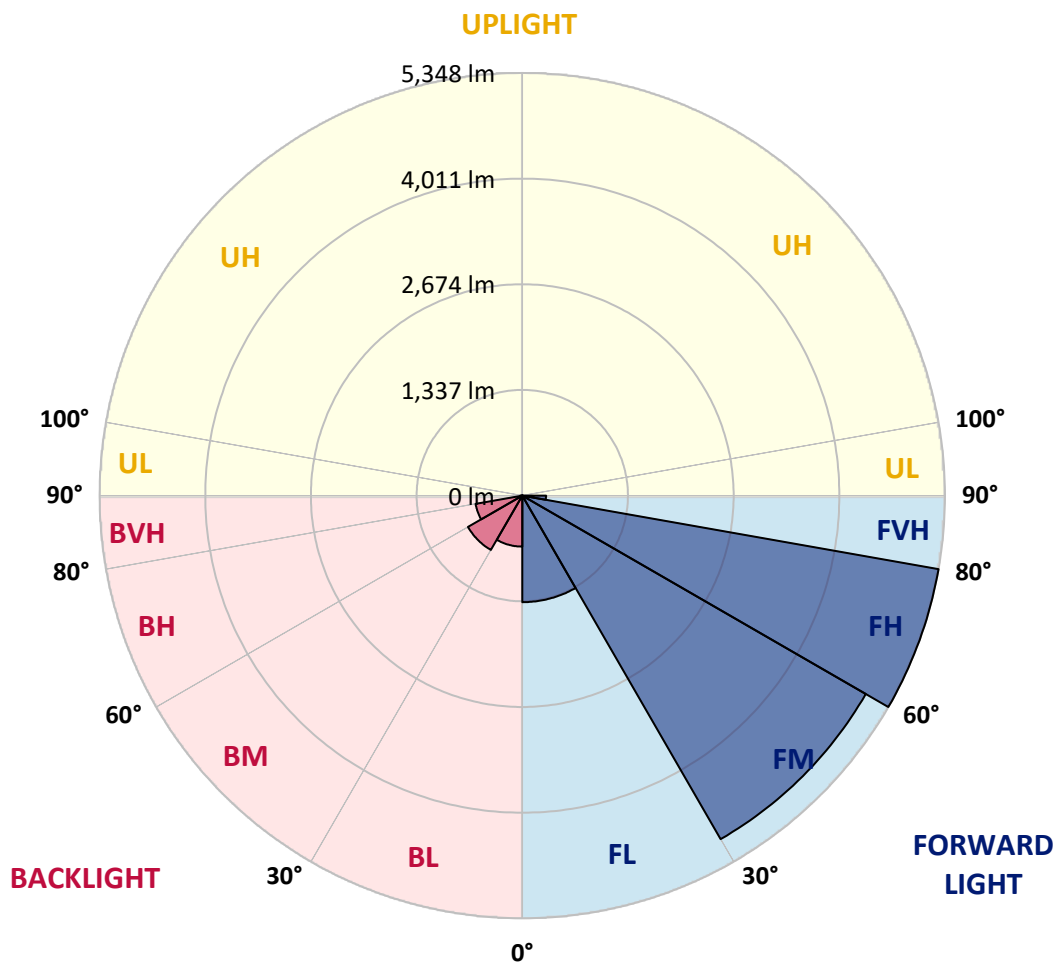
CATALOG NUMBER: GALN-SA3B-727-U-SL3

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1348.5	9.6			
FM	(30°-60°)	5018.8	35.6			
FH	(60°-80°)	5348.5	38.0			G3/7500
FVH	(80°-90°)	300.8	2.1			G3/500
BL	(0°-30°)	644.9	4.6	B2/1000		
BM	(30°-60°)	793.5	5.6	B1/1000		
BH	(60°-80°)	600.0	4.3	B2/1000		G2/1000
BVH	(80°-90°)	25.0	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





REPORT NUMBER: P452287

CATALOG NUMBER: GALN-SA3B-727-U-SL3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9
2.5°	4035.4	4046.4	4043.2	4039.3	4033.0	4015.7	3987.5	3982.8	3964.7	3926.2	3878.3
5°	3973.3	3982.8	3983.5	3989.0	3996.9	3993.8	3973.3	3971.0	3944.3	3892.5	3812.4
7.5°	3760.5	3773.1	3800.6	3831.2	3858.7	3884.6	3890.9	3894.8	3878.3	3818.6	3711.9
10°	3521.0	3533.6	3546.2	3591.7	3659.2	3723.6	3777.0	3784.1	3788.0	3733.1	3602.7
12.5°	3255.6	3281.5	3308.2	3375.8	3466.1	3567.4	3661.6	3676.5	3703.2	3661.6	3508.5
15°	3030.3	3057.0	3095.4	3155.9	3265.0	3411.1	3543.8	3568.2	3620.8	3599.6	3420.5
17.5°	2874.0	2883.4	2910.1	2979.2	3097.0	3250.9	3428.4	3477.1	3561.1	3555.6	3345.1
20°	2750.7	2762.5	2779.0	2821.4	2943.9	3106.4	3320.8	3383.6	3497.5	3516.3	3270.5
22.5°	2698.9	2707.5	2705.2	2727.9	2811.2	2974.5	3211.7	3286.2	3440.9	3489.6	3201.4
25°	2702.0	2709.9	2698.1	2692.6	2742.1	2858.3	3097.8	3192.8	3395.4	3471.6	3138.6
27.5°	2754.6	2760.1	2738.1	2716.2	2720.1	2786.0	3003.6	3108.8	3356.9	3479.4	3086.0
30°	2825.3	2835.5	2821.4	2794.7	2765.6	2768.8	2943.1	3046.7	3338.9	3506.9	3060.9
32.5°	2916.4	2925.8	2919.5	2898.3	2860.6	2819.0	2928.2	3024.0	3340.4	3562.7	3055.4
35°	3012.2	3031.0	3041.3	3039.7	3009.1	2936.8	2987.1	3066.4	3378.1	3656.1	3087.6
37.5°	3120.6	3136.3	3180.2	3208.5	3180.2	3096.2	3119.8	3174.7	3461.4	3791.2	3158.3
40°	3225.8	3249.3	3313.7	3401.7	3390.7	3316.9	3322.4	3358.5	3608.2	3992.2	3296.5
42.5°	3335.7	3364.0	3476.3	3606.6	3632.5	3575.2	3590.1	3622.3	3817.1	4270.9	3533.6
45°	3477.1	3510.8	3649.0	3811.6	3913.7	3878.3	3920.7	3936.4	4096.6	4633.7	3846.1
47.5°	3659.2	3698.5	3868.9	4071.5	4216.0	4248.2	4322.0	4312.6	4442.9	5063.3	4251.3
50°	3966.3	3988.3	4149.2	4355.8	4554.4	4699.7	4779.8	4794.7	4872.4	5481.0	4704.4
52.5°	4331.4	4351.0	4467.3	4647.9	4896.8	5204.6	5402.5	5353.8	5372.6	5989.8	5234.4
55°	4742.1	4775.1	4848.9	4969.0	5291.8	5744.9	6142.2	6154.0	5945.1	6476.7	5742.5
57.5°	5060.1	5115.9	5242.3	5413.5	5822.6	6345.6	6879.5	6887.4	6620.4	6996.5	6303.2
60°	4899.9	4965.9	5254.9	5671.8	6519.1	7393.9	7760.6	7715.8	7277.6	7588.6	6987.1
62.5°	4208.9	4220.7	4640.8	5292.5	6733.5	8796.3	9071.9	8882.7	8154.8	8339.3	7682.0
65°	2724.0	2801.0	3133.9	4047.2	6029.1	9574.5	11369.6	10932.2	9384.5	9191.3	8263.9
67.5°	1719.7	1700.1	1838.3	2311.0	4146.9	8889.0	13330.3	13261.2	10992.6	9729.2	8124.9
69°	1426.0	1448.0	1495.1	1771.5	2853.6	7589.4	13562.0	14039.4	11772.4	9686.8	7620.0
70°	1293.3	1303.5	1353.0	1570.5	2201.8	6356.6	13181.9	14018.2	12078.6	9509.3	7254.1
72.5°	1026.3	1025.5	1110.3	1306.6	1645.9	3628.6	10823.8	12170.5	11736.3	8683.2	5993.8
75°	779.7	792.3	885.8	1105.6	1516.3	1982.7	7553.3	9372.7	9373.5	6858.3	3740.1
77.5°	562.2	570.1	679.2	928.2	1428.4	1607.4	5031.1	6722.5	6319.6	3142.5	1175.5
80°	368.3	373.0	456.2	735.0	1287.8	1516.3	2983.1	4114.7	2980.8	833.9	388.7
82.5°	201.8	225.4	278.8	475.9	1033.4	1400.9	1813.1	2082.5	1118.2	371.4	202.6
85°	101.3	107.6	157.0	278.0	675.3	1159.0	1262.7	1194.4	577.2	184.5	105.2
87.5°	29.8	37.7	65.2	107.6	274.1	603.9	702.8	630.6	222.2	66.7	22.0
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: P452287  
 CATALOG NUMBER: GALN-SA3B-727-U-SL3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9	3890.9
2.5°	3858.7	3844.6	3781.7	3725.2	3673.4	3618.4	3572.1	3531.2	3535.2	3536.0	3494.3
5°	3770.7	3738.6	3619.2	3507.7	3413.5	3294.1	3192.0	3126.1	3093.1	3049.1	3064.8
7.5°	3651.4	3589.4	3423.7	3238.3	3064.8	2910.1	2742.1	2626.6	2552.8	2481.4	2490.8
10°	3528.1	3428.4	3187.3	2942.3	2717.7	2470.4	2256.0	2072.3	1935.6	1884.6	1850.8
12.5°	3401.7	3270.5	2964.3	2638.4	2328.3	2032.2	1728.3	1531.2	1380.5	1300.4	1310.6
15°	3286.2	3126.8	2731.9	2334.5	1931.7	1579.1	1276.0	1088.3	983.1	961.1	973.7
17.5°	3179.5	2970.6	2514.4	2039.3	1568.9	1184.1	958.8	852.8	810.4	798.6	797.8
20°	3069.5	2837.9	2270.1	1723.6	1222.6	918.0	786.8	737.3	729.5	734.2	735.0
22.5°	2958.0	2673.8	2018.9	1410.3	973.7	750.7	687.9	674.5	680.8	691.8	693.4
25°	2855.1	2529.3	1777.0	1135.5	777.4	659.6	629.0	629.0	643.1	659.6	660.4
27.5°	2770.3	2389.5	1535.9	901.5	651.0	593.6	583.4	588.9	608.6	621.1	621.9
30°	2700.5	2259.1	1308.2	722.4	572.4	541.0	538.7	548.1	562.2	574.0	574.8
32.5°	2647.8	2144.5	1095.4	607.0	518.3	501.0	500.2	507.3	515.1	518.3	521.4
35°	2627.4	2049.5	900.7	534.0	482.1	471.1	471.1	470.4	473.5	475.1	476.6
37.5°	2643.9	1976.5	749.9	486.9	455.4	447.6	442.9	438.2	436.6	436.6	437.4
40°	2713.8	1938.0	637.6	456.2	436.6	424.8	416.2	410.7	405.2	406.8	408.3
42.5°	2862.2	1945.1	561.4	435.8	420.1	403.6	391.1	384.8	380.8	385.6	384.8
45°	3098.6	2015.7	512.8	421.7	403.6	382.4	370.6	364.4	364.4	371.4	373.8
47.5°	3429.2	2150.8	486.9	410.7	391.1	365.9	354.1	349.4	351.0	362.8	363.6
50°	3832.8	2385.6	482.1	405.2	384.8	354.1	340.8	336.1	340.0	352.6	354.1
52.5°	4278.0	2687.9	504.9	406.0	379.3	347.1	329.8	322.7	326.7	336.9	340.0
55°	4805.7	3066.4	563.8	409.1	371.4	343.2	322.0	306.2	311.0	318.0	318.8
57.5°	5344.4	3543.8	667.5	409.9	365.1	336.1	308.6	288.2	288.2	292.9	295.3
60°	6002.4	4063.6	804.1	410.7	365.9	325.9	290.5	267.8	264.6	267.0	267.8
62.5°	6655.7	4498.7	826.9	408.3	373.8	315.7	270.9	247.4	241.9	241.1	239.5
65°	6943.9	4417.8	677.7	397.3	382.4	309.4	255.2	227.7	218.3	215.2	215.2
67.5°	6474.3	3737.0	509.6	382.4	376.9	303.1	240.3	211.2	200.2	194.0	194.0
69°	6033.0	3323.9	457.8	372.2	362.8	292.9	230.9	202.6	189.2	182.2	179.8
70°	5692.2	3039.7	435.8	363.6	349.4	281.1	223.8	196.3	181.4	173.5	172.0
72.5°	4542.6	2384.8	381.6	330.6	297.6	236.4	198.7	176.7	162.5	153.9	151.6
75°	2618.0	1292.5	316.5	287.4	239.5	183.7	168.0	153.9	142.9	135.1	132.7
77.5°	805.7	499.4	229.3	226.9	175.9	142.1	134.3	128.8	120.9	112.3	110.7
80°	339.2	254.4	155.5	153.1	117.0	98.9	96.6	95.8	92.7	85.6	83.2
82.5°	186.1	143.7	108.4	94.2	70.7	57.3	59.7	60.5	58.1	51.0	46.3
85°	91.1	78.5	52.6	42.4	32.2	20.4	19.6	23.6	22.0	15.7	17.3
87.5°	18.1	22.0	14.1	6.3	3.1	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)