

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: P528660

Luminaire Tested: **GALN-SA3D-730-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528660  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-730-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17931 lumens  
Efficiency: N/A  
Efficacy: 97.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

Input Watts (W): 184  
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

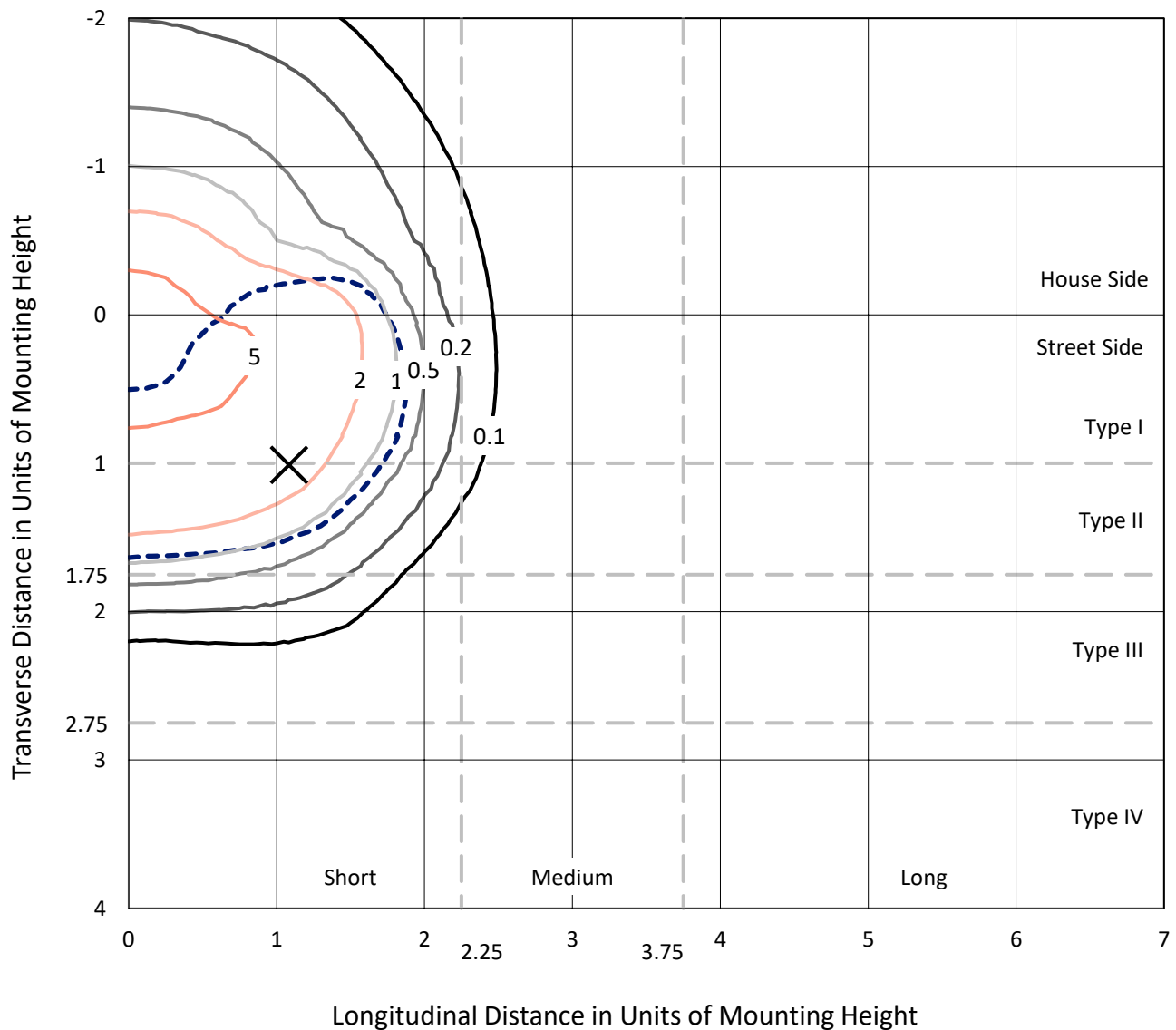


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## Iso-Footcandle Lines of Horizontal Illumination

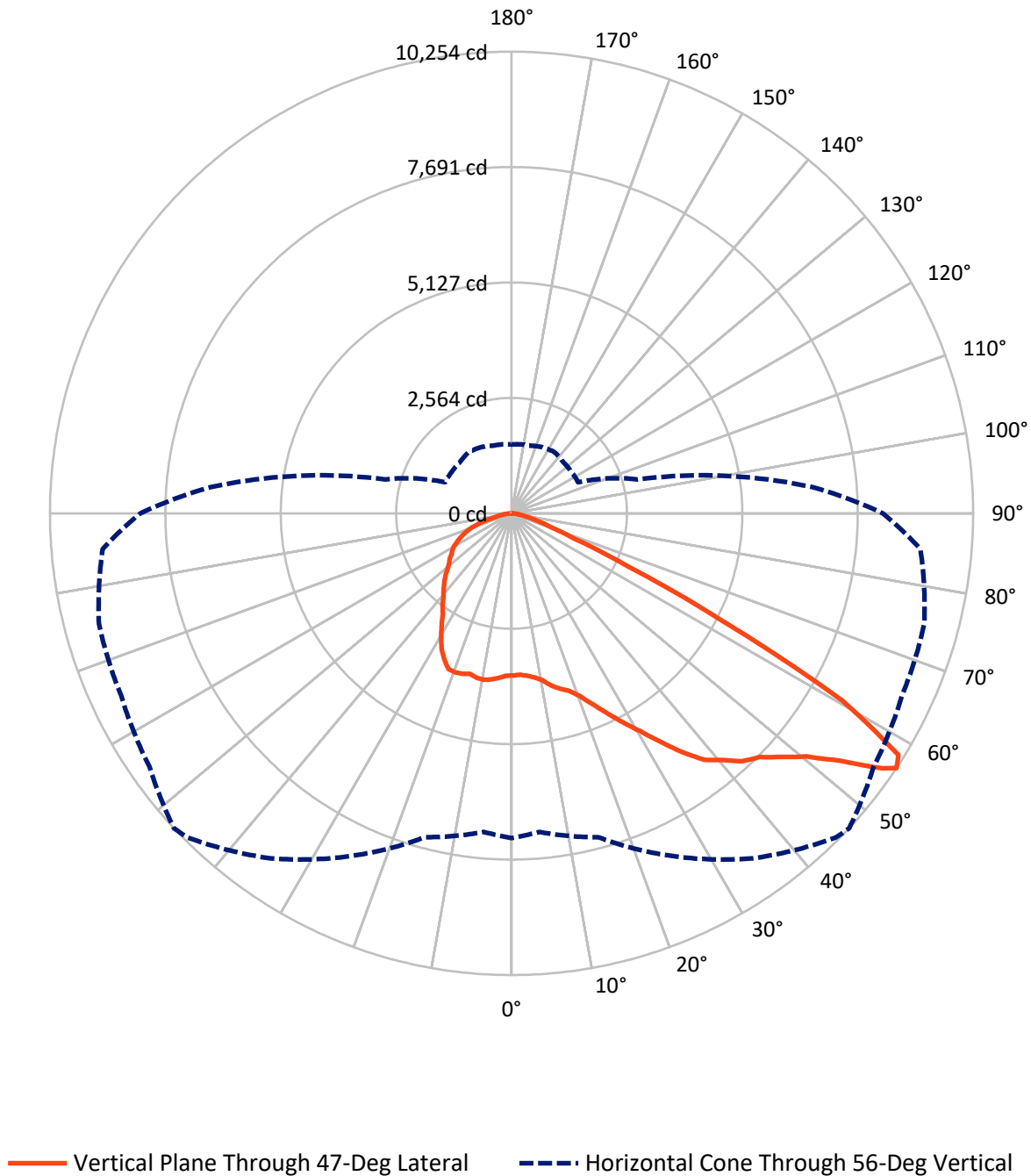
× Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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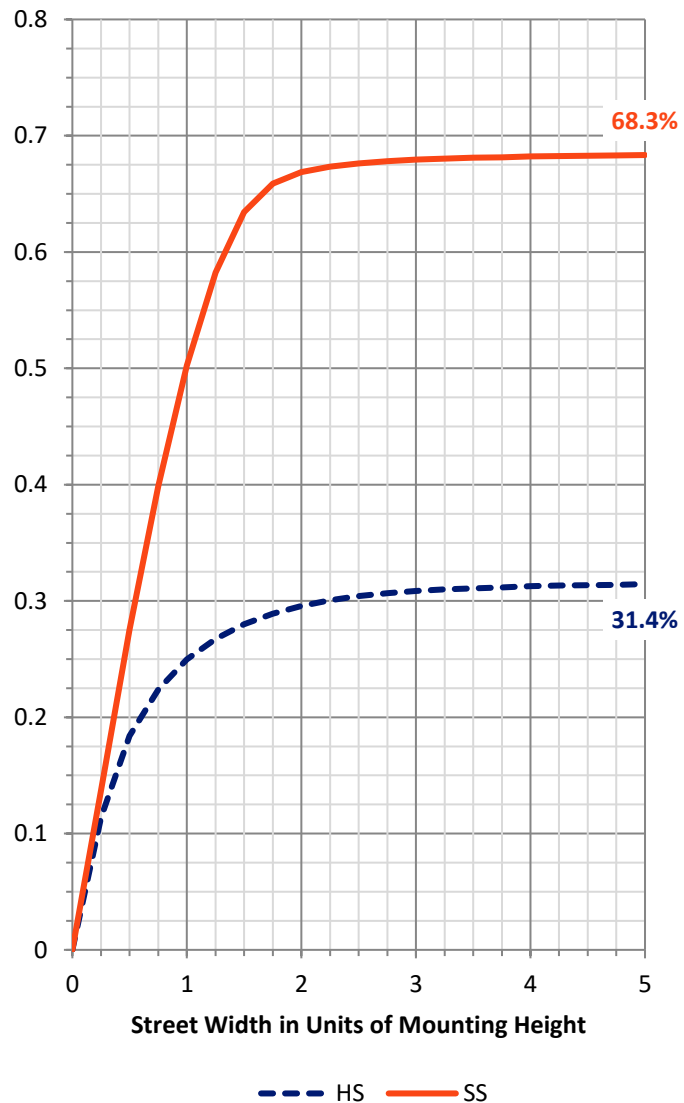
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5682.1	0.0	5682.1
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	12248.9	0.0	12248.9
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	17931.0	0.0	17931.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	351.0	2.0
10°-20°	1107.1	6.2
20°-30°	1957.0	10.9
30°-40°	2939.4	16.4
40°-50°	4034.0	22.5
50°-60°	4806.0	26.8
60°-70°	2056.7	11.5
70°-80°	582.0	3.2
80°-90°	97.9	0.5
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°	17931.0	100.0
0°-180°	17931.0	100.0

**Coefficient of Utilization**



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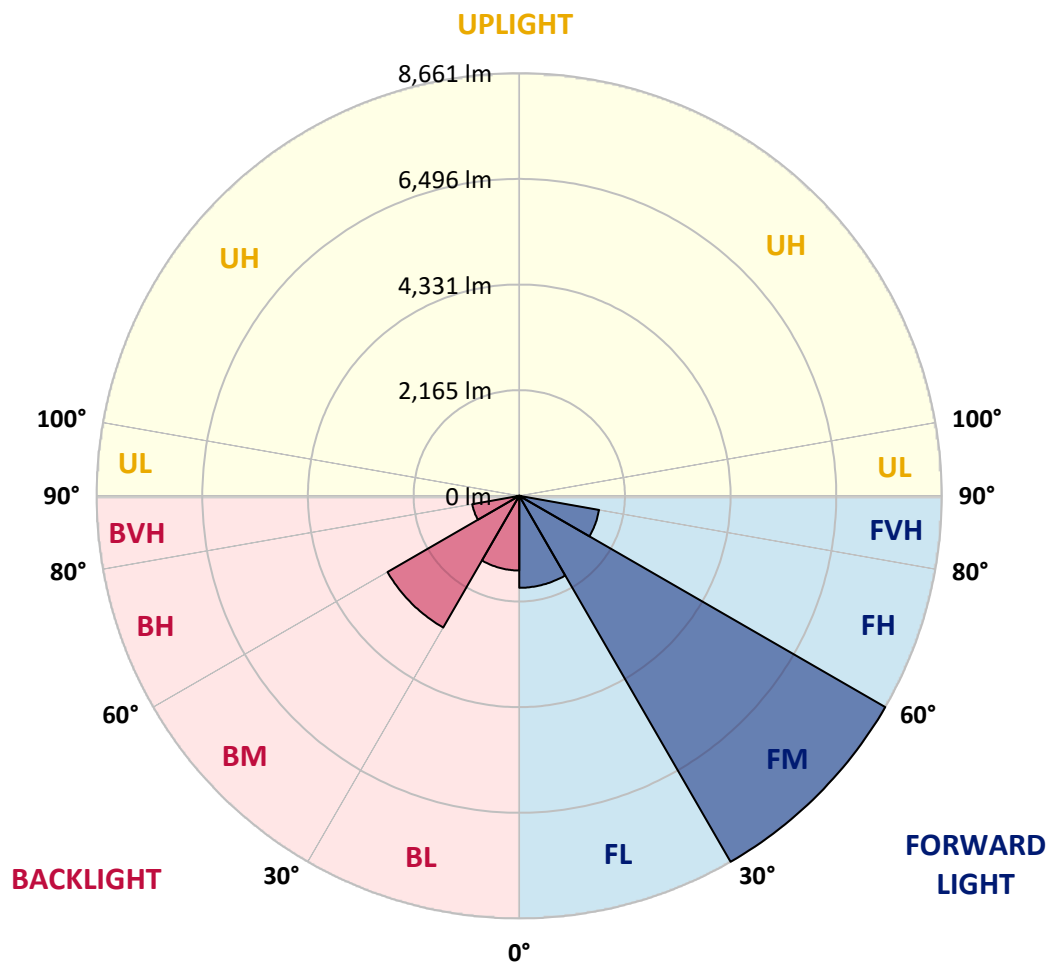
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1885.2	10.5			
FM	(30°-60°)	8661.1	48.3			
FH	(60°-80°)	1661.1	9.3			G1/1800
FVH	(80°-90°)	41.6	0.2			G1/100
BL	(0°-30°)	1529.9	8.5	B3/2500		
BM	(30°-60°)	3118.2	17.4	B3/5000		
BH	(60°-80°)	977.6	5.5	B2/1000		G2/1000
BVH	(80°-90°)	56.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8
2.5°	3588.1	3581.2	3576.6	3613.2	3599.5	3601.8	3588.1	3601.8	3610.9	3590.4	3620.1
5°	3581.2	3601.8	3583.5	3594.9	3624.7	3615.5	3624.7	3652.1	3645.2	3638.4	3629.2
7.5°	3645.2	3647.5	3661.3	3665.8	3675.0	3665.8	3679.5	3704.7	3697.8	3659.0	3663.5
10°	3736.7	3741.3	3743.6	3768.7	3784.7	3787.0	3771.0	3748.2	3745.9	3798.5	3761.9
12.5°	3841.9	3830.5	3857.9	3867.1	3885.4	3905.9	3926.5	3878.5	3908.2	3910.5	3867.1
15°	3995.1	4006.6	3974.6	3974.6	3981.4	3983.7	4040.9	4018.0	4013.4	3988.3	4006.6
17.5°	4223.8	4146.1	4143.8	4111.8	4107.2	4125.5	4146.1	4164.4	4226.1	4175.8	4077.5
20°	4390.8	4409.1	4342.7	4303.9	4310.7	4351.9	4331.3	4413.6	4457.1	4374.7	4278.7
22.5°	4685.8	4624.0	4640.0	4553.1	4560.0	4603.4	4601.1	4685.8	4710.9	4580.6	4441.1
25°	4884.7	4868.7	4882.4	4813.8	4823.0	4857.3	4912.2	5051.7	5010.5	4866.4	4544.0
27.5°	5175.1	5143.1	5131.7	5106.5	5097.4	5188.9	5252.9	5401.5	5371.8	5161.4	4726.9
30°	5472.4	5451.9	5463.3	5360.4	5397.0	5591.4	5609.6	5813.2	5799.5	5429.0	4930.5
32.5°	5678.3	5689.7	5710.3	5653.1	5815.5	5971.0	6032.7	6263.7	6275.1	5888.6	5323.8
35°	6009.8	5971.0	5982.4	6048.7	6124.2	6407.8	6508.4	6661.6	6757.6	6371.2	5701.1
37.5°	6218.0	6259.1	6211.1	6316.3	6513.0	6853.7	6945.2	7103.0	7203.6	6846.8	6215.7
40°	6542.7	6476.4	6510.7	6586.1	6787.4	7231.0	7205.9	7368.2	7400.3	7251.6	6695.9
42.5°	6892.6	6860.6	6812.5	6984.0	7153.3	7475.7	7526.0	7450.6	7612.9	7647.2	7382.0
45°	7311.1	7349.9	7356.8	7361.4	7510.0	7791.3	7722.7	7656.4	7843.9	8093.2	7807.3
47.5°	7699.8	7576.3	7665.5	7789.0	7999.4	8001.7	8081.7	7923.9	8122.9	8344.7	8191.5
50°	7830.2	7770.7	7889.6	8122.9	8447.6	8481.9	8491.1	8267.0	8369.9	8546.0	8324.1
52.5°	7779.9	7759.3	8063.4	8424.8	8900.4	9074.2	9120.0	8843.3	8900.4	8820.4	8616.9
55°	7539.8	7601.5	7907.9	8644.3	9373.8	9911.2	9998.1	9648.2	9284.6	9346.4	9122.3
56°	7210.4	7103.0	7446.0	8395.0	9353.2	10183.4	10254.2	9817.5	9570.5	9490.4	9117.7
57.5°	6117.3	5977.8	6428.3	7553.5	8834.1	10080.4	10133.0	9888.4	9522.5	9360.1	8452.2
60°	3581.2	3649.8	4221.5	5209.5	6814.8	8264.7	8440.8	8619.1	8374.5	7647.2	6291.1
62.5°	1728.9	1685.4	2094.8	2986.6	4152.9	5275.8	5223.2	5724.0	5998.4	5433.6	3972.3
65°	905.6	901.0	1143.4	1630.5	2282.3	2771.7	2819.7	3089.5	3466.9	2799.1	2017.0
67.5°	665.5	683.8	805.0	1145.7	1468.2	1497.9	1491.0	1626.0	1662.5	1406.4	1239.5
70°	521.4	530.5	619.7	871.3	1093.1	978.8	958.2	974.2	1081.7	1127.4	1072.5
72.5°	377.3	386.5	461.9	587.7	683.8	667.8	681.5	770.7	903.3	951.3	894.2
75°	251.6	258.4	299.6	359.0	404.8	436.8	461.9	564.9	688.3	715.8	688.3
77.5°	173.8	180.7	208.1	253.8	258.4	279.0	288.1	336.2	411.6	445.9	427.6
80°	98.3	98.3	112.1	130.4	160.1	187.5	192.1	231.0	265.3	288.1	292.7
82.5°	45.7	48.0	59.5	80.0	105.2	130.4	134.9	160.1	185.2	208.1	215.0
85°	22.9	25.2	34.3	48.0	64.0	77.8	75.5	77.8	82.3	77.8	80.0
87.5°	6.9	6.9	9.1	11.4	9.1	11.4	11.4	13.7	16.0	18.3	20.6
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°	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8	3601.8
2.5°	3622.4	3629.2	3583.5	3626.9	3610.9	3608.7	3640.7	3636.1	3647.5	3643.0	3615.5
5°	3624.7	3608.7	3656.7	3613.2	3633.8	3677.3	3647.5	3716.1	3681.8	3704.7	3654.4
7.5°	3695.6	3700.1	3691.0	3709.3	3700.1	3720.7	3704.7	3720.7	3693.3	3695.6	3741.3
10°	3757.3	3743.6	3759.6	3736.7	3752.7	3745.9	3709.3	3697.8	3707.0	3695.6	3725.3
12.5°	3871.6	3846.5	3835.1	3807.6	3789.3	3720.7	3663.5	3631.5	3675.0	3681.8	3668.1
15°	3988.3	3990.6	3938.0	3876.2	3761.9	3659.0	3672.7	3684.1	3684.1	3702.4	3668.1
17.5°	4061.5	4061.5	4013.4	3889.9	3773.3	3713.8	3700.1	3663.5	3631.5	3626.9	3624.7
20°	4189.5	4150.6	4040.9	3887.6	3768.7	3741.3	3638.4	3551.5	3485.2	3462.3	3460.0
22.5°	4335.9	4237.5	4084.3	3892.2	3761.9	3723.0	3530.9	3400.6	3281.6	3231.3	3238.2
25°	4470.8	4313.0	4109.5	3871.6	3736.7	3549.2	3334.2	3153.6	3030.1	2988.9	2968.3
27.5°	4564.6	4393.0	4109.5	3889.9	3643.0	3354.8	3135.3	2904.3	2796.8	2769.4	2774.0
30°	4690.3	4493.7	4180.4	3851.1	3455.4	3103.3	2840.3	2689.3	2625.3	2602.4	2618.4
32.5°	4985.3	4756.7	4278.7	3757.3	3233.6	2851.7	2639.0	2554.4	2460.7	2414.9	2398.9
35°	5305.5	5005.9	4374.7	3599.5	2984.3	2623.0	2490.4	2412.6	2300.6	2250.3	2259.4
37.5°	5758.3	5326.1	4381.6	3338.8	2714.5	2495.0	2373.8	2252.5	2161.1	2083.3	2060.5
40°	6368.9	5762.9	4365.6	3064.4	2497.2	2344.0	2254.8	2103.9	2001.0	1946.1	1957.5
42.5°	6906.3	6275.1	4299.3	2753.4	2300.6	2241.1	2140.5	1991.8	1891.2	1834.1	1829.5
45°	7359.1	6652.5	4173.5	2488.1	2135.9	2126.8	2010.1	1895.8	1815.8	1763.2	1786.0
47.5°	7777.6	6956.6	3983.7	2222.8	1985.0	2003.3	1891.2	1820.3	1770.0	1722.0	1719.7
50°	7928.5	6952.0	3816.8	2003.3	1863.8	1854.6	1850.1	1774.6	1722.0	1680.8	1699.1
52.5°	8180.1	7029.8	3636.1	1852.4	1754.0	1756.3	1772.3	1717.4	1658.0	1632.8	1655.7
55°	8541.4	7041.2	3238.2	1676.3	1662.5	1678.5	1678.5	1642.0	1591.6	1571.1	1559.6
56°	8246.4	6700.5	2904.3	1630.5	1616.8	1616.8	1660.3	1619.1	1557.3	1541.3	1527.6
57.5°	7606.1	5870.4	2430.9	1575.6	1555.1	1587.1	1609.9	1566.5	1509.3	1486.5	1500.2
60°	5246.0	3972.3	1827.2	1456.7	1456.7	1509.3	1527.6	1463.6	1438.4	1436.1	1417.8
62.5°	3062.1	2314.3	1429.3	1349.2	1353.8	1397.3	1411.0	1374.4	1342.4	1381.3	1399.6
65°	1623.7	1381.3	1225.8	1234.9	1237.2	1271.5	1330.9	1328.7	1326.4	1337.8	1340.1
67.5°	1175.4	1148.0	1113.7	1104.5	1109.1	1134.3	1193.7	1239.5	1237.2	1209.7	1189.2
70°	1047.4	1008.5	987.9	990.2	971.9	1001.6	1049.7	1079.4	1026.8	994.8	981.1
72.5°	871.3	859.9	846.1	848.4	811.8	805.0	750.1	750.1	736.4	727.2	743.2
75°	665.5	660.9	667.8	656.3	617.5	576.3	544.3	514.5	468.8	450.5	441.4
77.5°	420.8	434.5	450.5	425.4	409.3	379.6	347.6	317.9	281.3	260.7	260.7
80°	285.9	297.3	308.7	304.2	285.9	258.4	233.3	201.2	176.1	160.1	157.8
82.5°	217.3	226.4	242.4	224.1	205.8	182.9	162.4	139.5	116.6	98.3	98.3
85°	77.8	89.2	98.3	107.5	114.3	116.6	100.6	82.3	66.3	52.6	50.3
87.5°	20.6	22.9	25.2	22.9	22.9	22.9	25.2	22.9	20.6	16.0	16.0
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)