

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: P455008

Luminaire Tested: **GALN-SA6A-830-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21760 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 182
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



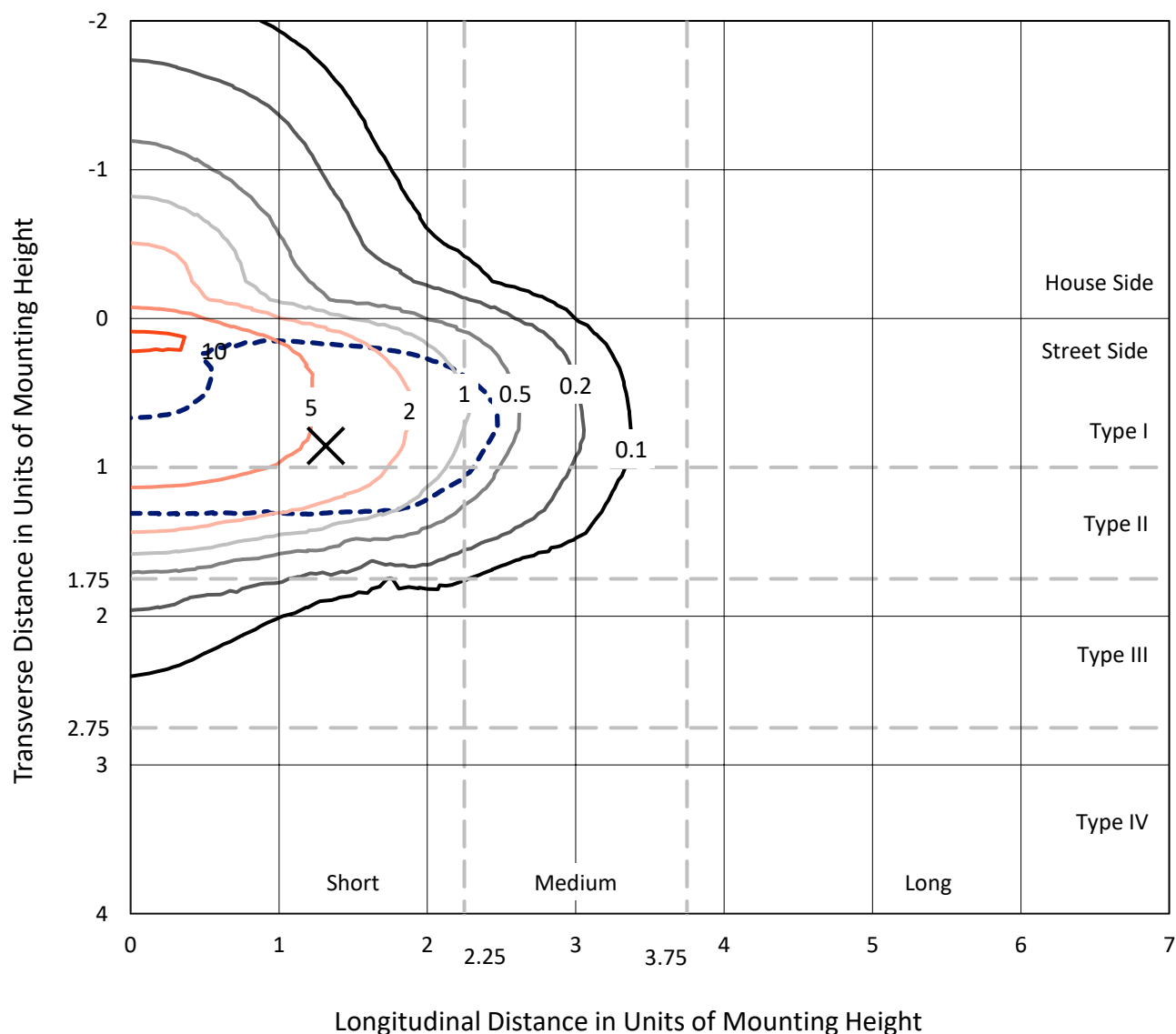
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

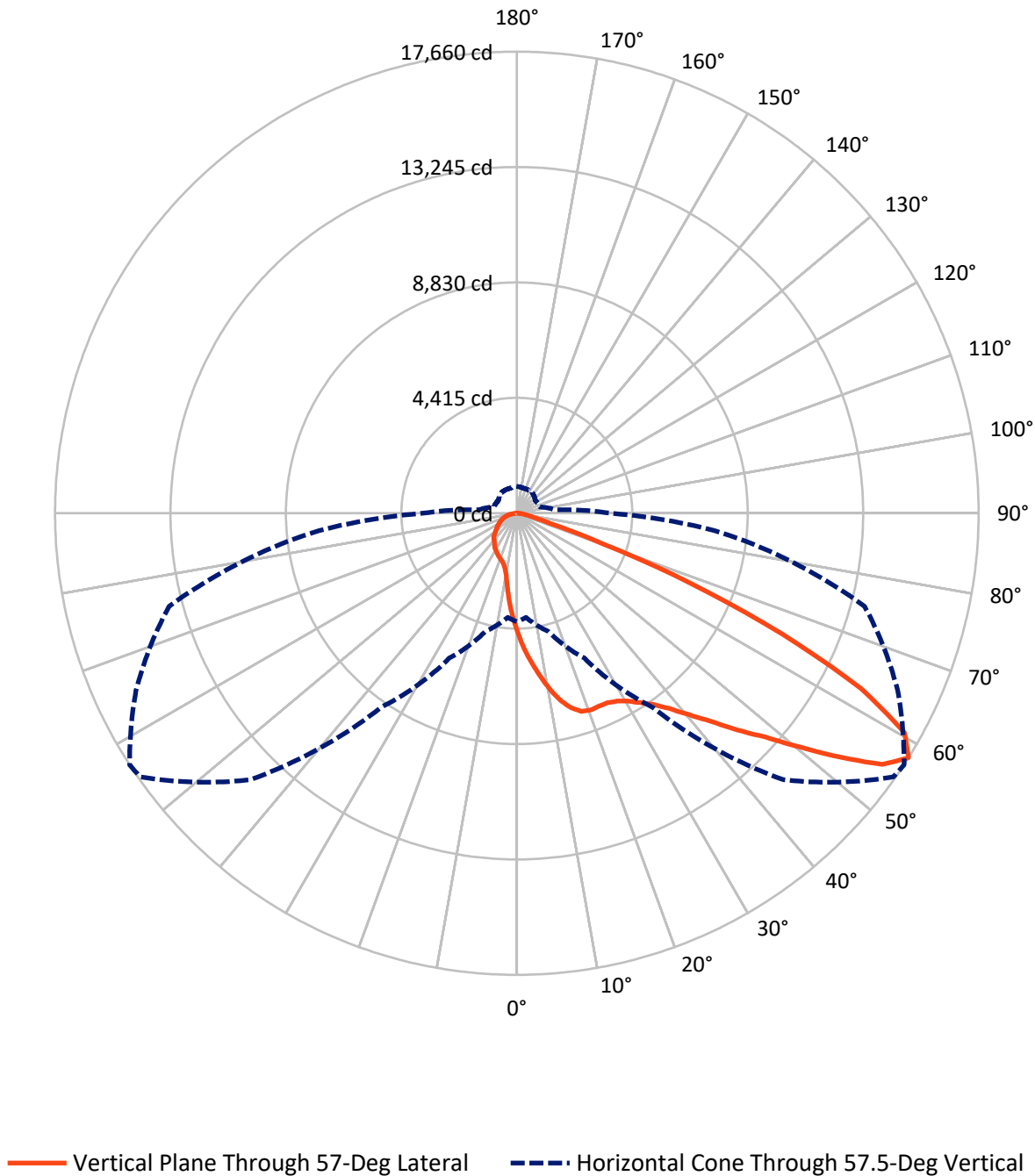


Based on 25 foot mounting height. Maximum calculated value = 11.1 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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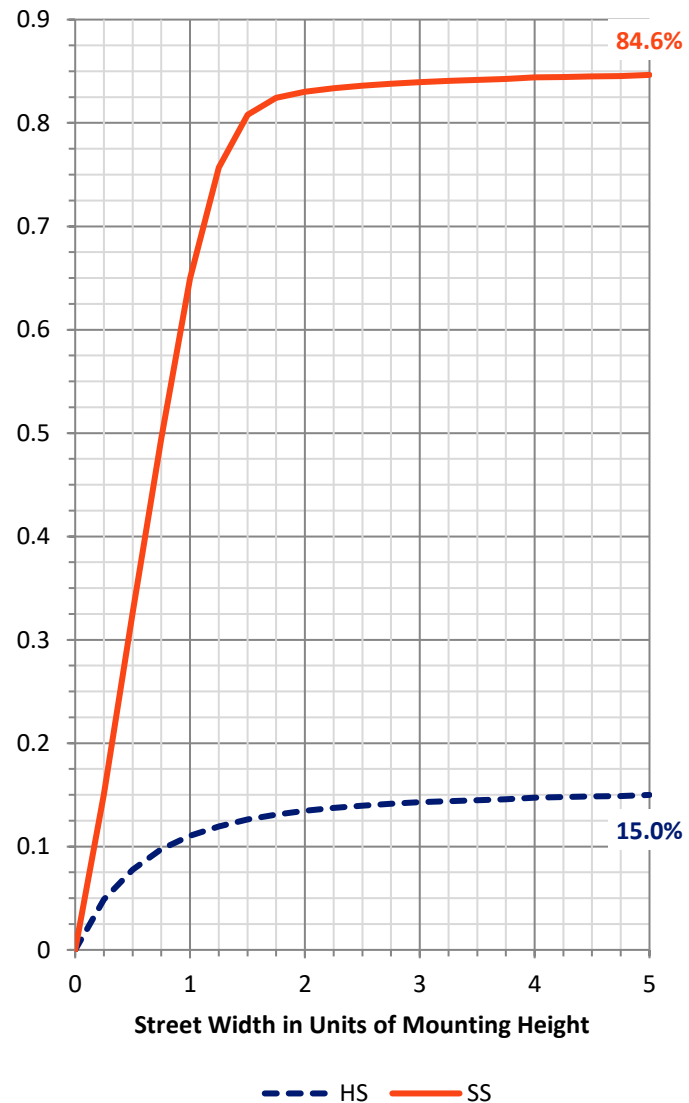
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3309.1	0.0	3309.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	18450.9	0.0	18450.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	21760.0	0.0	21760.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	439.4	2.0
10°-20°	1294.8	6.0
20°-30°	2150.1	9.9
30°-40°	3238.7	14.9
40°-50°	4862.6	22.3
50°-60°	5450.4	25.0
60°-70°	3189.8	14.7
70°-80°	943.5	4.3
80°-90°	190.7	0.9
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°	21760.0	100.0
0°-180°	21760.0	100.0

Coefficient of Utilization



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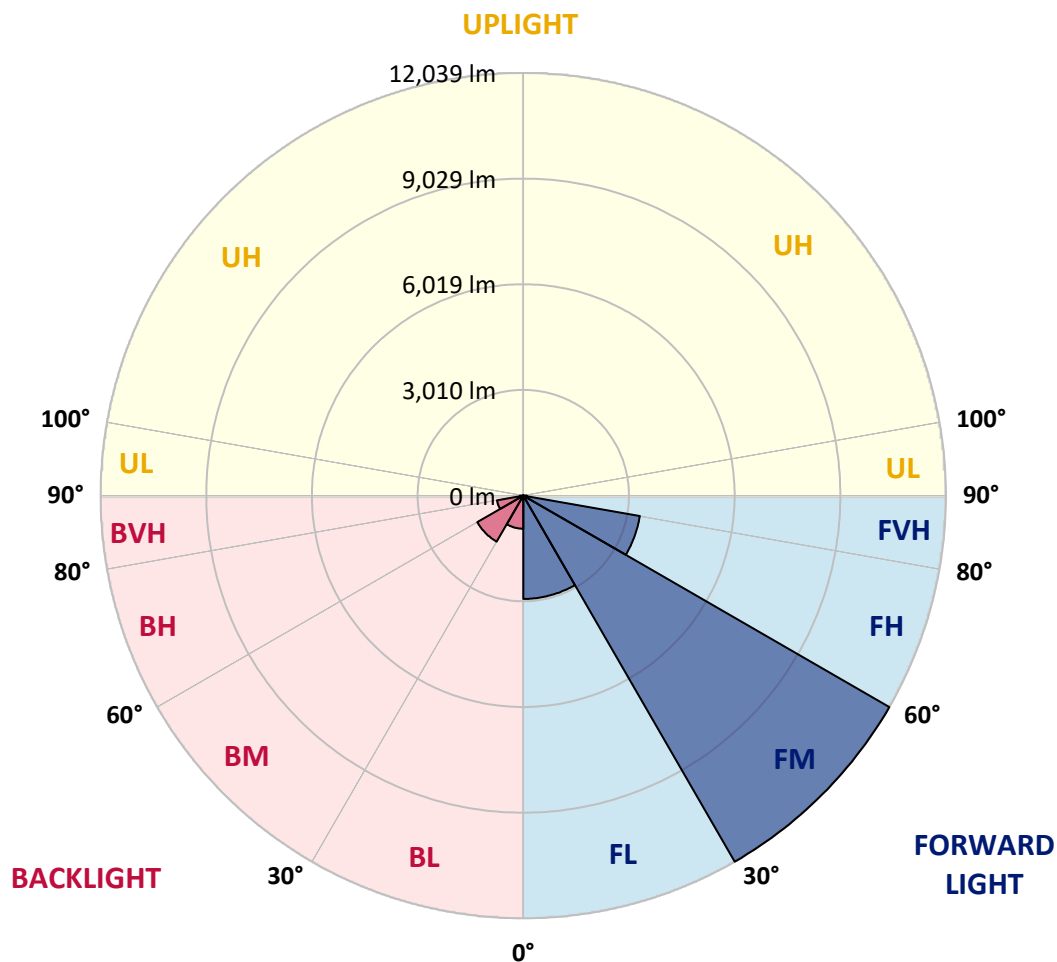
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2941.4	13.5			
FM	(30°-60°)	12038.6	55.3			
FH	(60°-80°)	3371.9	15.5			G2/5000
FVH	(80°-90°)	99.0	0.5			G1/100
BL	(0°-30°)	942.9	4.3	B2/1000		
BM	(30°-60°)	1513.0	7.0	B2/2500		
BH	(60°-80°)	761.4	3.5	B2/1000		G2/1000
BVH	(80°-90°)	91.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5
2.5°	5680.5	5618.5	5569.7	5526.8	5470.8	5319.6	5168.3	5165.9	5045.6	4859.8	4669.2
5°	6606.0	6522.6	6533.3	6399.9	6266.5	6047.3	5726.9	5710.2	5454.1	5106.3	4752.6
7.5°	7208.7	7209.9	7176.5	7100.3	6956.2	6707.2	6343.9	6261.7	5905.6	5377.9	4847.9
10°	7177.7	7209.9	7265.8	7331.4	7375.4	7252.7	6921.6	6821.6	6358.2	5706.7	4953.9
12.5°	6765.6	6815.6	6895.4	7059.8	7325.4	7527.9	7414.7	7333.7	6882.3	6034.2	5070.6
15°	6508.3	6538.1	6582.1	6692.9	6978.8	7463.6	7756.6	7713.7	7376.6	6404.7	5201.6
17.5°	6429.7	6459.5	6473.7	6541.6	6745.3	7242.0	7891.2	7967.4	7815.0	6745.3	5333.8
20°	6508.3	6522.6	6522.6	6563.1	6722.7	7112.2	7885.2	8038.9	8174.7	7153.9	5457.7
22.5°	6714.4	6720.3	6712.0	6726.3	6845.4	7147.9	7829.2	8019.8	8465.3	7500.5	5554.2
25°	7049.1	7058.6	7003.8	6970.4	7057.4	7305.2	7860.2	8035.3	8692.8	7831.6	5618.5
27.5°	7429.0	7440.9	7374.2	7296.8	7337.3	7499.3	7981.7	8138.9	8863.1	8158.0	5659.0
30°	7894.8	7899.5	7787.6	7694.6	7668.4	7788.7	8189.0	8335.5	9075.2	8542.7	5719.8
32.5°	8371.2	8406.9	8262.8	8131.8	8087.7	8124.6	8495.1	8636.8	9327.7	8956.0	5817.4
35°	9019.2	9025.1	8852.4	8692.8	8547.5	8595.1	8887.0	8989.4	9676.7	9433.7	5955.6
37.5°	9827.9	9882.7	9644.5	9346.7	9168.1	9099.0	9361.0	9473.0	10166.2	10019.7	6164.1
40°	10726.1	10746.3	10542.6	10356.8	10030.4	9830.3	10011.4	10132.9	10770.1	10718.9	6405.9
42.5°	11290.6	11334.7	11350.2	11331.1	11085.8	10749.9	10819.0	10876.1	11484.8	11375.2	6653.6
45°	11481.2	11546.7	11768.3	12237.6	12263.8	11932.7	11771.9	11826.7	12263.8	12037.5	6890.6
47.5°	11165.6	11277.5	11686.1	12648.5	13369.2	13394.2	12909.4	12789.1	12973.7	12586.6	7062.2
50°	10349.7	10373.5	10998.8	12392.4	13887.3	14791.4	14289.9	14066.0	13647.9	12992.8	7180.1
52.5°	9087.1	9114.5	9638.6	11202.5	13568.1	15768.1	15905.1	15504.8	14332.8	13308.4	7257.5
55°	6745.3	6903.7	7480.2	8991.8	12055.3	15676.4	17189.1	16961.6	15160.6	13558.5	7379.0
57.5°	4147.5	4002.2	4685.9	6117.6	9066.8	14416.2	17585.7	17659.6	16071.8	13768.2	7582.7
60°	1908.2	1936.8	2219.1	3155.3	5526.8	11277.5	16563.7	17030.7	16575.7	13761.0	7633.9
62.5°	1315.0	1288.8	1217.3	1385.3	2520.4	7132.4	13990.9	14781.8	15565.6	13333.4	7430.2
65°	1175.6	1149.4	1011.3	964.8	1157.8	3108.8	10171.0	11169.2	13105.9	12254.3	6922.8
67.5°	1098.2	1062.5	919.5	829.0	826.6	1237.6	5997.3	7199.1	9720.7	10360.4	5998.5
70°	1017.2	988.6	846.9	746.8	704.0	777.8	2636.0	3450.7	6311.8	7466.0	4672.8
72.5°	936.2	902.9	775.4	668.2	612.2	582.5	1010.1	1313.8	3566.2	4476.2	2864.6
75°	818.3	801.6	693.2	605.1	544.3	470.5	640.8	731.3	1705.7	2055.9	1437.7
77.5°	715.9	698.0	615.8	528.9	484.8	382.4	455.0	496.7	719.4	833.8	649.2
80°	524.1	542.0	519.3	466.9	432.4	300.2	306.1	340.7	427.6	472.9	396.6
82.5°	332.3	365.7	400.2	359.7	327.6	237.0	212.0	225.1	291.8	309.7	176.3
85°	139.4	141.7	232.3	219.2	187.0	140.6	127.5	134.6	156.0	163.2	82.2
87.5°	53.6	52.4	82.2	76.2	58.4	40.5	40.5	45.3	61.9	57.2	26.2
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°	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5	4571.5
2.5°	4587.0	4502.4	4334.5	4126.0	3973.6	3802.1	3650.8	3542.4	3501.9	3482.8	3447.1
5°	4583.4	4416.7	4068.9	3704.4	3411.4	3111.2	2857.5	2693.1	2678.8	2569.3	2558.5
7.5°	4584.6	4329.7	3775.9	3239.9	2793.2	2485.9	2276.2	2221.4	2155.9	2139.3	2147.6
10°	4588.2	4219.0	3461.4	2780.1	2347.7	2146.4	2067.8	2046.3	2048.7	2055.9	2057.1
12.5°	4593.0	4111.8	3135.0	2431.1	2097.6	2014.2	2005.8	2024.9	2045.2	2060.6	2064.2
15°	4598.9	3989.1	2817.0	2150.0	1972.5	1965.4	1992.7	2024.9	2053.5	2076.1	2079.7
17.5°	4591.8	3846.1	2550.2	1977.3	1903.4	1938.0	1983.2	2023.7	2049.9	2071.4	2073.7
20°	4575.1	3686.5	2292.9	1855.8	1860.5	1916.5	1965.4	2003.5	2032.1	2042.8	2051.1
22.5°	4510.8	3495.9	2069.0	1761.7	1809.3	1886.7	1945.1	1967.7	1935.6	1912.9	1918.9
25°	4401.2	3248.2	1860.5	1685.4	1762.9	1845.0	1904.6	1849.8	1823.6	1814.1	1818.8
27.5°	4264.2	2976.6	1703.3	1605.6	1703.3	1798.6	1781.9	1772.4	1760.5	1745.0	1748.6
30°	4116.5	2711.0	1569.9	1543.7	1639.0	1693.8	1700.9	1716.4	1703.3	1679.5	1689.0
32.5°	3979.5	2460.9	1468.7	1491.3	1593.7	1585.4	1639.0	1656.9	1596.1	1516.3	1519.9
35°	3862.8	2228.6	1392.4	1440.1	1516.3	1519.9	1573.5	1511.5	1446.0	1407.9	1410.3
37.5°	3774.7	2047.5	1342.4	1396.0	1417.4	1462.7	1434.1	1402.0	1393.6	1367.4	1368.6
40°	3722.3	1889.1	1310.2	1361.5	1357.9	1388.8	1297.1	1329.3	1341.2	1332.9	1334.1
42.5°	3669.8	1777.2	1276.9	1313.8	1312.6	1251.9	1231.6	1259.0	1290.0	1293.6	1291.2
45°	3628.2	1690.2	1242.3	1241.1	1265.0	1169.7	1163.7	1180.4	1224.5	1245.9	1244.7
47.5°	3581.7	1617.5	1189.9	1156.6	1163.7	1118.5	1108.9	1116.1	1169.7	1204.2	1213.8
50°	3523.3	1544.9	1124.4	1079.2	1049.4	1070.8	1073.2	1074.4	1128.0	1167.3	1175.6
52.5°	3476.9	1490.1	1049.4	1016.0	980.3	1027.9	1045.8	1048.2	1080.3	1112.5	1118.5
55°	3504.3	1459.1	975.5	951.7	919.5	983.9	1018.4	1023.2	1030.3	1054.1	1057.7
57.5°	3586.5	1466.3	916.0	885.0	861.2	931.5	989.8	993.4	988.6	1017.2	1022.0
60°	3611.5	1462.7	871.9	811.2	796.9	875.5	948.1	955.3	954.1	995.8	1004.1
62.5°	3506.7	1417.4	827.8	749.2	739.7	818.3	889.8	918.4	924.3	983.9	994.6
65°	3260.1	1324.5	769.5	683.7	683.7	757.6	833.8	873.1	889.8	969.6	981.5
67.5°	2934.9	1214.9	709.9	627.7	625.3	699.2	774.2	814.7	840.9	949.3	956.5
70°	2435.8	1067.2	636.1	567.0	567.0	633.7	701.6	750.4	788.5	911.2	911.2
72.5°	1668.8	887.4	546.7	497.9	499.1	561.0	630.1	684.9	730.2	835.0	837.4
75°	1055.3	693.2	449.1	424.0	428.8	487.2	558.6	615.8	706.3	825.4	829.0
77.5°	561.0	487.2	357.3	351.4	357.3	410.9	490.7	569.4	708.7	715.9	704.0
80°	363.3	345.4	282.3	270.4	272.8	331.1	437.1	540.8	569.4	576.5	550.3
82.5°	197.7	219.2	200.1	188.2	188.2	258.5	372.8	430.0	408.6	339.5	324.0
85°	84.6	102.4	103.6	90.5	87.0	159.6	250.1	234.7	218.0	208.4	206.1
87.5°	23.8	33.4	33.4	25.0	19.1	44.1	50.0	14.3	0.0	1.2	2.4
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)