

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: P451780

Luminaire Tested: **GALN-SA2C-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451780
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA2C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11497 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 108
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

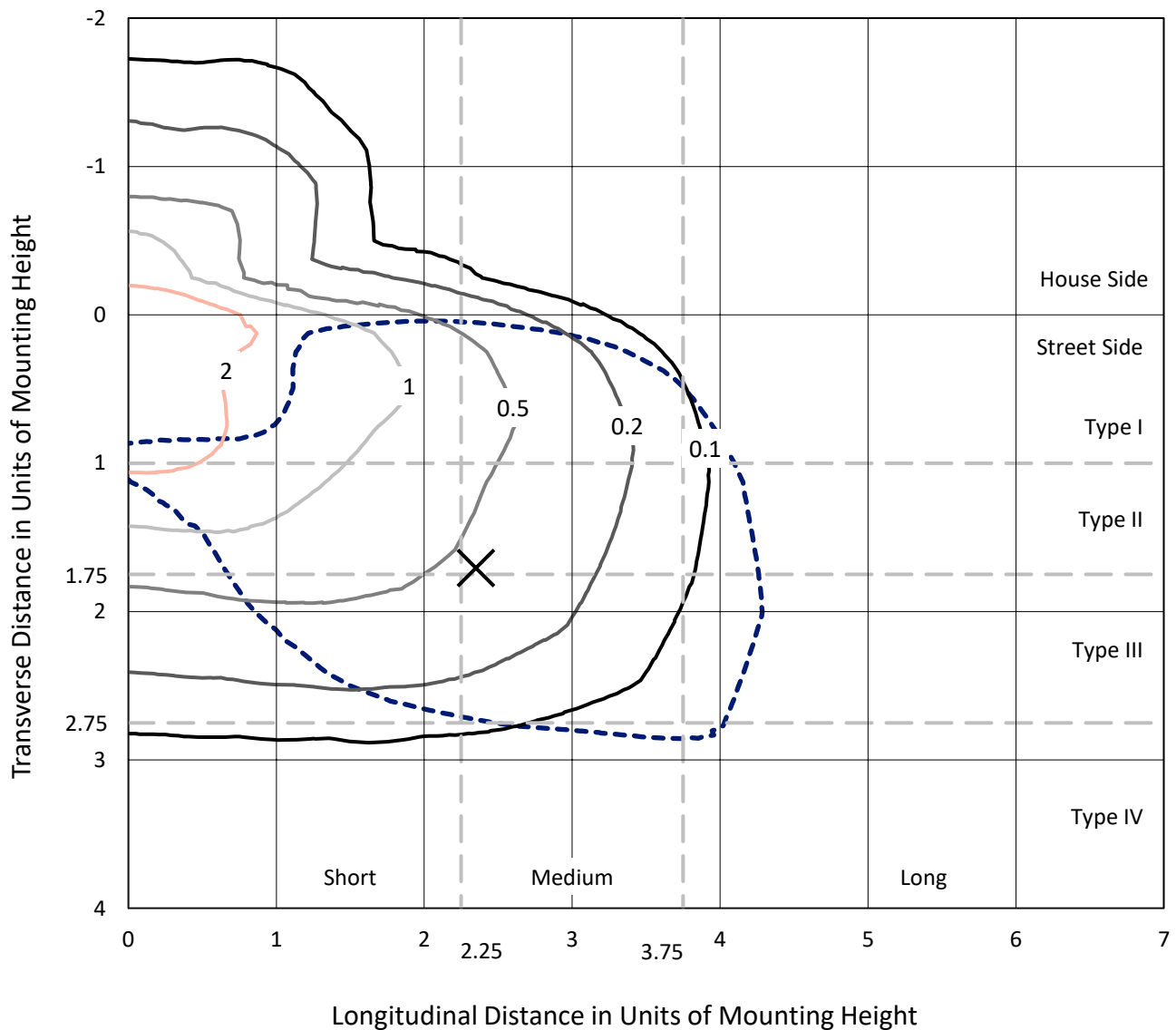


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

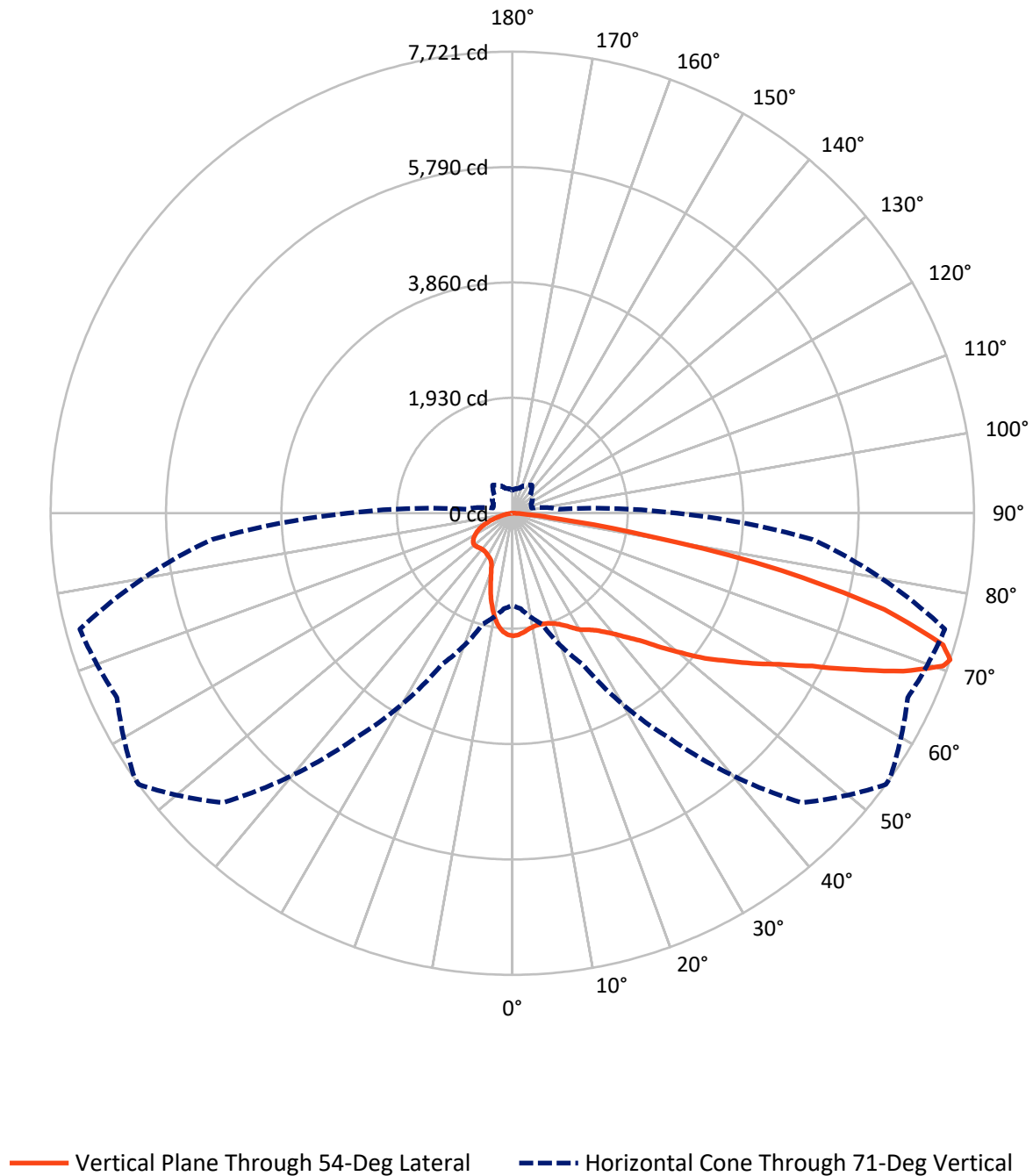


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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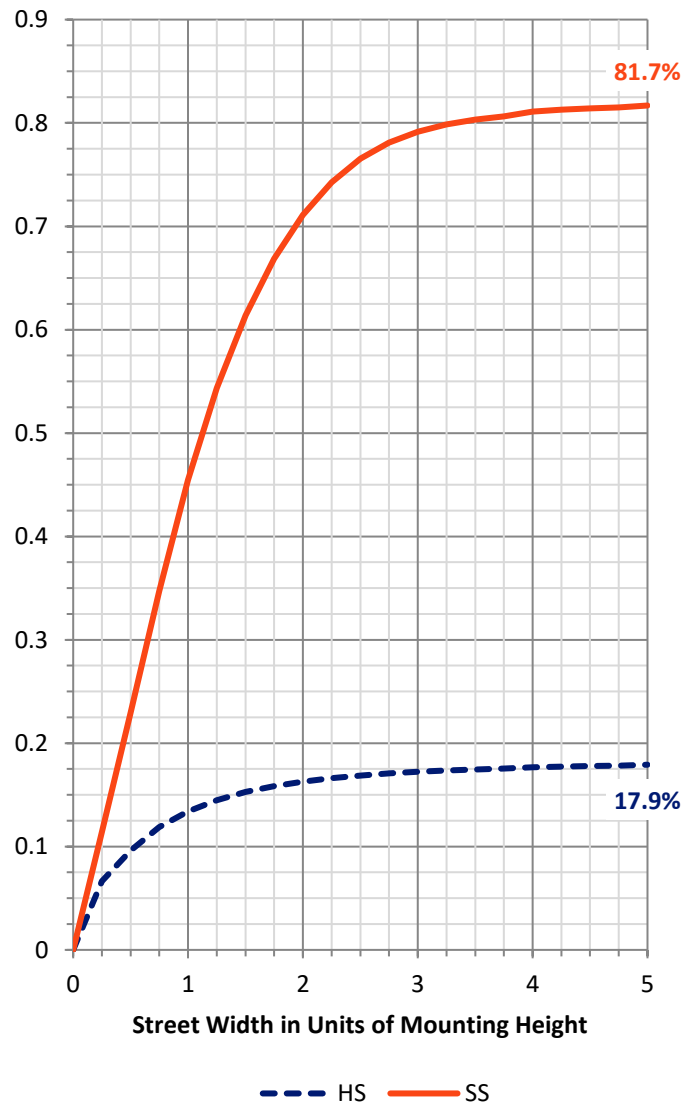
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2075.7	0.0	2075.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	9421.3	0.0	9421.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	11497.0	0.0	11497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.8	1.6
10°-20°	482.7	4.2
20°-30°	803.7	7.0
30°-40°	1188.4	10.3
40°-50°	1673.9	14.6
50°-60°	2241.4	19.5
60°-70°	2825.1	24.6
70°-80°	1929.5	16.8
80°-90°	169.7	1.5
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°	11497.0	100.0
0°-180°	11497.0	100.0

Coefficient of Utilization



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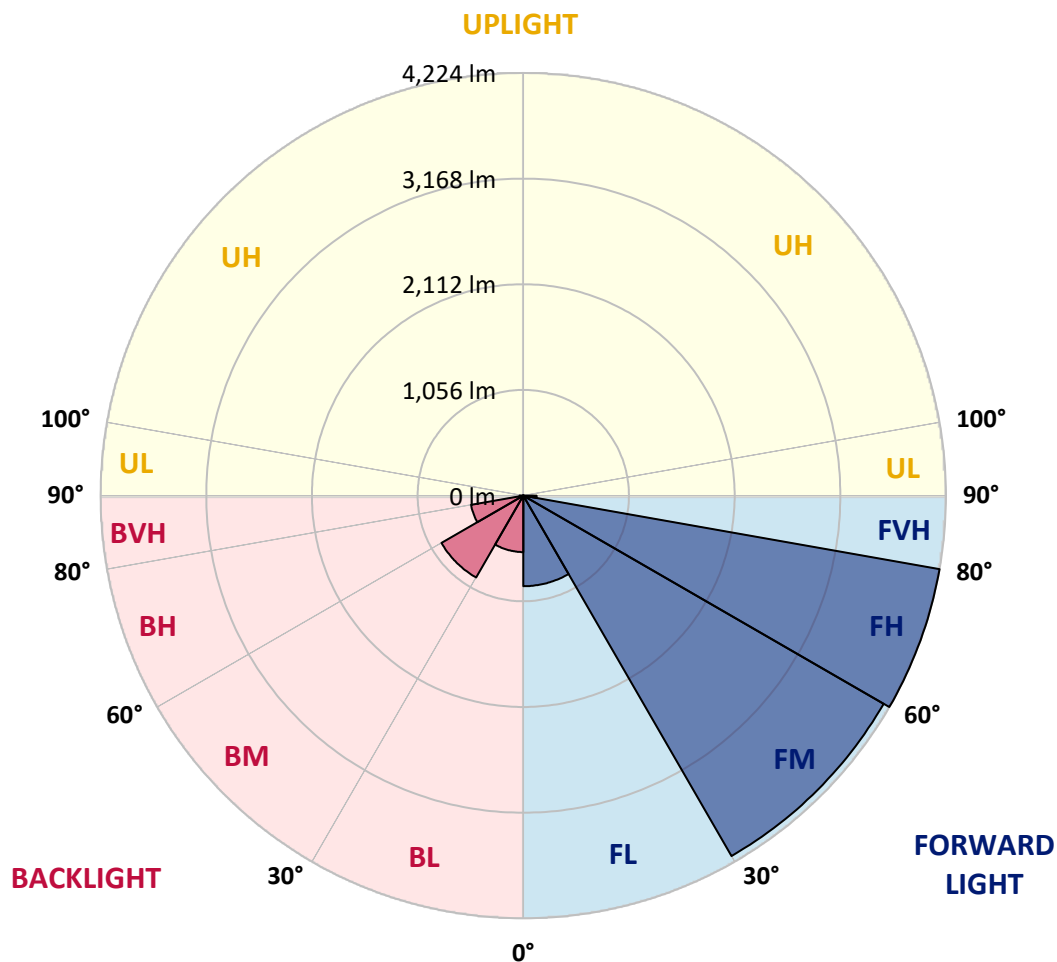
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	905.0	7.9			
FM	(30°-60°)	4159.2	36.2			
FH	(60°-80°)	4224.4	36.7			G2/5000
FVH	(80°-90°)	132.6	1.2			G2/225
BL	(0°-30°)	564.1	4.9	B2/1000		
BM	(30°-60°)	944.4	8.2	B1/1000		
BH	(60°-80°)	530.1	4.6	B2/1000		G2/1000
BVH	(80°-90°)	37.0	0.3			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2
2.5°	1981.7	1991.0	1993.5	1999.7	2012.7	2023.3	2033.8	2032.6	2047.5	2053.7	2059.3
5°	1893.5	1896.0	1905.3	1917.7	1940.7	1969.9	1998.4	1999.1	2035.7	2064.9	2079.2
7.5°	1828.9	1837.0	1843.2	1856.2	1880.5	1912.1	1957.5	1961.2	2026.4	2084.1	2114.6
10°	1786.7	1796.0	1802.8	1819.0	1843.2	1878.6	1927.7	1934.5	2019.6	2114.6	2168.0
12.5°	1748.2	1757.5	1763.7	1784.8	1816.5	1860.0	1915.2	1923.3	2022.0	2150.0	2226.4
15°	1771.8	1779.2	1776.7	1783.0	1804.1	1853.8	1920.2	1928.3	2031.4	2184.1	2284.1
17.5°	1876.7	1882.9	1862.4	1838.8	1828.9	1865.5	1935.7	1944.4	2050.0	2219.5	2343.1
20°	2031.4	2048.1	2003.4	1950.6	1902.8	1907.8	1968.0	1977.3	2076.1	2254.9	2403.4
22.5°	2232.6	2245.0	2190.3	2103.4	2015.2	1969.9	2016.5	2022.0	2115.2	2300.9	2469.2
25°	2469.2	2476.6	2400.9	2289.1	2161.8	2076.1	2082.9	2092.8	2179.8	2353.1	2527.6
27.5°	2699.0	2722.6	2635.0	2498.4	2330.7	2187.9	2174.2	2180.4	2250.0	2382.2	2567.9
30°	2971.6	2969.7	2877.2	2718.8	2504.0	2309.6	2260.5	2259.3	2287.8	2396.5	2597.1
32.5°	3188.9	3214.4	3123.7	2951.1	2702.1	2435.6	2320.1	2317.7	2317.0	2421.4	2640.6
35°	3436.1	3439.8	3356.6	3182.7	2916.3	2594.0	2403.4	2390.9	2376.7	2474.8	2699.6
37.5°	3657.2	3674.6	3598.2	3403.2	3126.8	2758.6	2517.6	2509.5	2466.1	2567.3	2794.0
40°	3829.8	3842.9	3796.9	3611.2	3334.3	2936.2	2662.9	2648.0	2595.3	2718.8	2920.0
42.5°	3886.4	3913.1	3931.1	3839.8	3572.7	3146.7	2841.8	2823.2	2782.8	2948.6	3065.4
45°	3890.7	3932.9	4027.9	4032.3	3812.5	3398.9	3050.5	3037.4	3034.3	3243.0	3269.7
47.5°	3857.8	3900.6	4060.2	4146.6	4026.1	3653.5	3351.7	3331.2	3333.0	3606.9	3498.8
50°	3778.3	3829.2	4023.0	4219.8	4193.1	3918.0	3669.6	3662.8	3701.3	4022.4	3736.7
52.5°	3628.6	3690.1	3984.5	4265.8	4317.3	4145.9	4031.1	4011.8	4109.3	4473.2	3996.9
55°	3214.4	3306.9	3843.5	4291.3	4435.3	4363.9	4356.5	4391.2	4520.4	4965.1	4283.2
57.5°	2998.3	3067.8	3537.3	4295.6	4584.4	4617.3	4736.5	4745.2	4971.3	5487.3	4606.7
60°	2880.3	2941.8	3369.7	4267.0	4792.4	4930.9	5125.3	5156.3	5411.6	6053.1	4942.1
62.5°	2777.2	2830.0	3269.1	4168.3	5027.2	5396.1	5628.9	5643.8	5911.5	6677.8	5273.1
65°	2534.4	2594.6	3066.6	4069.6	5229.6	5977.3	6297.2	6279.8	6443.7	7216.9	5480.5
67.5°	2207.1	2283.5	2688.4	3728.6	5329.6	6612.6	7049.8	7028.1	6969.1	7570.3	5540.1
70°	1789.2	1830.2	2204.6	3139.3	4930.3	6946.1	7644.2	7621.2	7294.5	7616.8	5258.2
71°	1539.5	1603.5	1919.6	2788.4	4598.0	6844.3	7720.5	7714.3	7295.1	7488.3	5045.8
72.5°	1201.7	1240.8	1520.3	2160.5	3908.1	6265.5	7531.8	7555.4	7136.8	7131.2	4608.0
75°	760.1	777.5	953.9	1271.9	2144.4	4437.2	6429.4	6493.4	6336.9	5837.0	3426.8
77.5°	441.5	463.9	571.3	749.6	926.6	2408.3	4600.5	4670.1	4403.0	3213.8	1402.9
80°	257.1	281.9	376.3	435.3	425.4	893.7	2342.5	2461.1	1906.5	811.7	393.7
82.5°	142.8	159.6	264.6	265.2	226.7	291.9	737.2	771.3	544.0	327.3	160.8
85°	103.7	117.4	170.8	154.6	108.7	125.4	256.5	268.9	219.8	137.9	52.2
87.5°	36.6	52.2	93.8	74.5	29.8	26.1	73.9	60.2	55.9	38.5	11.8
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°	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2	2051.2
2.5°	2062.4	2063.7	2057.4	2046.3	2035.1	2020.8	2004.7	1992.2	1986.6	1986.0	1985.4
5°	2084.8	2087.9	2064.3	2029.5	1991.0	1943.8	1903.4	1857.5	1845.7	1827.0	1832.6
7.5°	2120.8	2118.9	2072.3	1998.4	1908.4	1808.4	1724.0	1674.9	1624.0	1609.7	1610.3
10°	2172.3	2160.5	2072.3	1935.1	1784.8	1636.4	1518.4	1443.9	1403.5	1370.0	1357.6
12.5°	2227.0	2197.2	2052.5	1846.3	1625.8	1443.9	1317.2	1216.6	1190.5	1163.2	1163.8
15°	2279.2	2229.5	2013.4	1721.5	1454.4	1238.3	1115.4	1055.1	1047.0	1050.1	1049.5
17.5°	2326.3	2252.4	1953.7	1582.4	1254.5	1061.9	996.7	1001.1	1022.8	1038.3	1040.2
20°	2374.2	2266.1	1864.9	1396.1	1065.7	955.1	957.6	991.8	1024.7	1045.8	1048.9
22.5°	2419.5	2272.3	1760.6	1216.0	929.0	909.8	946.4	983.1	1015.4	1035.9	1039.0
25°	2449.3	2258.0	1612.8	1027.8	862.0	893.7	932.2	963.2	990.5	1011.6	1016.6
27.5°	2457.4	2212.1	1429.6	875.6	830.9	878.1	913.5	936.5	957.6	977.5	981.2
30°	2453.0	2144.4	1228.4	786.2	812.9	860.1	887.4	904.2	929.7	945.2	948.3
32.5°	2446.2	2065.5	1018.5	738.4	798.0	843.3	859.5	874.4	873.8	867.6	871.9
35°	2448.7	1971.1	848.3	709.8	785.0	830.9	844.6	826.0	772.6	770.1	767.6
37.5°	2461.7	1878.0	724.7	690.0	778.1	829.1	836.5	750.8	703.6	681.9	676.3
40°	2495.3	1769.3	643.4	675.1	777.5	843.3	799.9	712.9	622.3	580.0	576.9
42.5°	2540.0	1662.5	593.7	665.7	785.0	865.1	785.0	659.5	560.8	535.9	532.2
45°	2606.4	1540.1	566.4	661.4	796.1	873.2	780.0	620.4	535.9	516.1	516.1
47.5°	2681.6	1423.4	551.5	658.3	810.4	867.6	735.9	608.0	524.1	526.6	538.4
50°	2756.1	1322.2	540.3	651.5	822.9	864.5	717.9	607.4	527.2	558.9	580.0
52.5°	2842.4	1250.7	526.6	640.3	822.9	844.6	712.3	619.8	535.9	545.3	554.6
55°	2946.7	1228.4	509.2	616.1	807.9	794.9	709.2	637.8	542.2	520.4	524.1
57.5°	3084.6	1264.4	492.5	585.6	773.8	743.4	708.0	642.8	527.9	509.9	506.1
60°	3244.8	1335.8	487.5	554.6	727.2	699.3	700.5	628.5	508.0	489.4	492.5
62.5°	3357.2	1378.7	484.4	531.0	676.3	650.8	682.5	611.1	499.3	483.2	486.3
65°	3357.2	1326.5	455.8	495.0	610.5	592.5	660.8	589.3	488.1	469.5	466.4
67.5°	3229.9	1174.4	412.4	440.9	537.8	526.0	630.3	563.3	471.4	457.1	449.6
70°	2898.3	890.5	357.7	377.6	445.9	456.5	591.2	527.9	443.4	426.0	414.8
71°	2752.4	775.7	334.7	345.3	410.5	426.0	572.6	513.0	431.0	406.1	386.3
72.5°	2471.0	653.3	300.0	304.3	350.9	378.8	533.5	484.4	407.4	372.0	349.6
75°	1877.3	476.9	241.6	239.1	259.6	300.6	451.5	431.6	357.1	309.3	296.2
77.5°	811.1	259.6	180.7	182.6	176.4	227.9	355.2	370.8	306.2	251.5	239.7
80°	245.9	149.7	123.6	126.1	118.0	152.8	250.3	290.6	245.9	195.6	179.5
82.5°	126.1	89.4	84.5	83.2	75.1	86.3	151.5	198.7	175.7	122.3	108.1
85°	54.6	47.8	41.6	40.4	35.4	31.1	54.0	99.4	93.2	68.3	65.2
87.5°	13.7	12.4	8.1	7.5	4.3	0.6	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)