

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: STREETWORKS

Report Number: P193528

Luminaire Tested: **GAN-AF-10-LED-U-AFL-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193528
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-10-LED-U-AFL-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54106 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 640
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: 28.75 FT



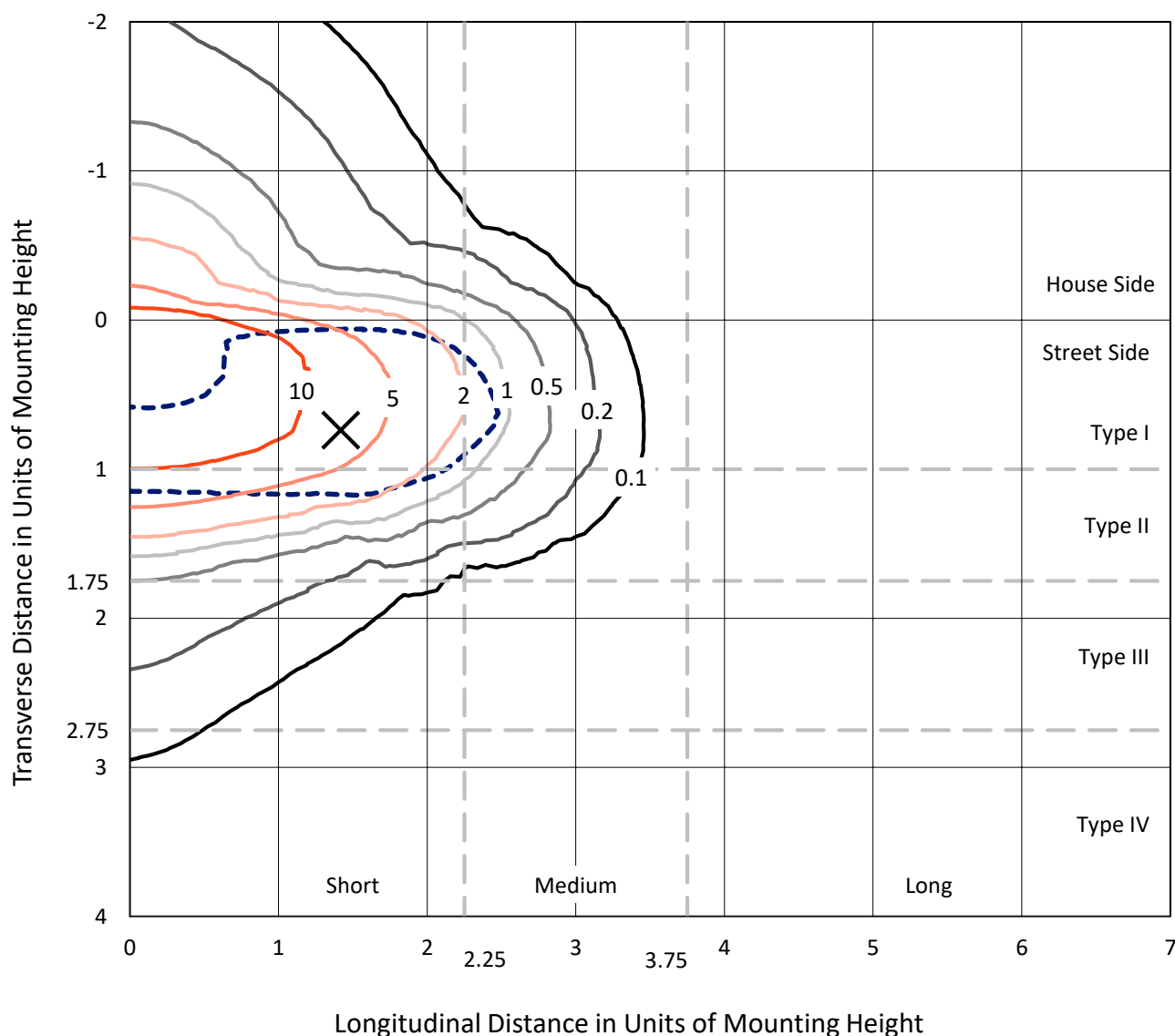
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

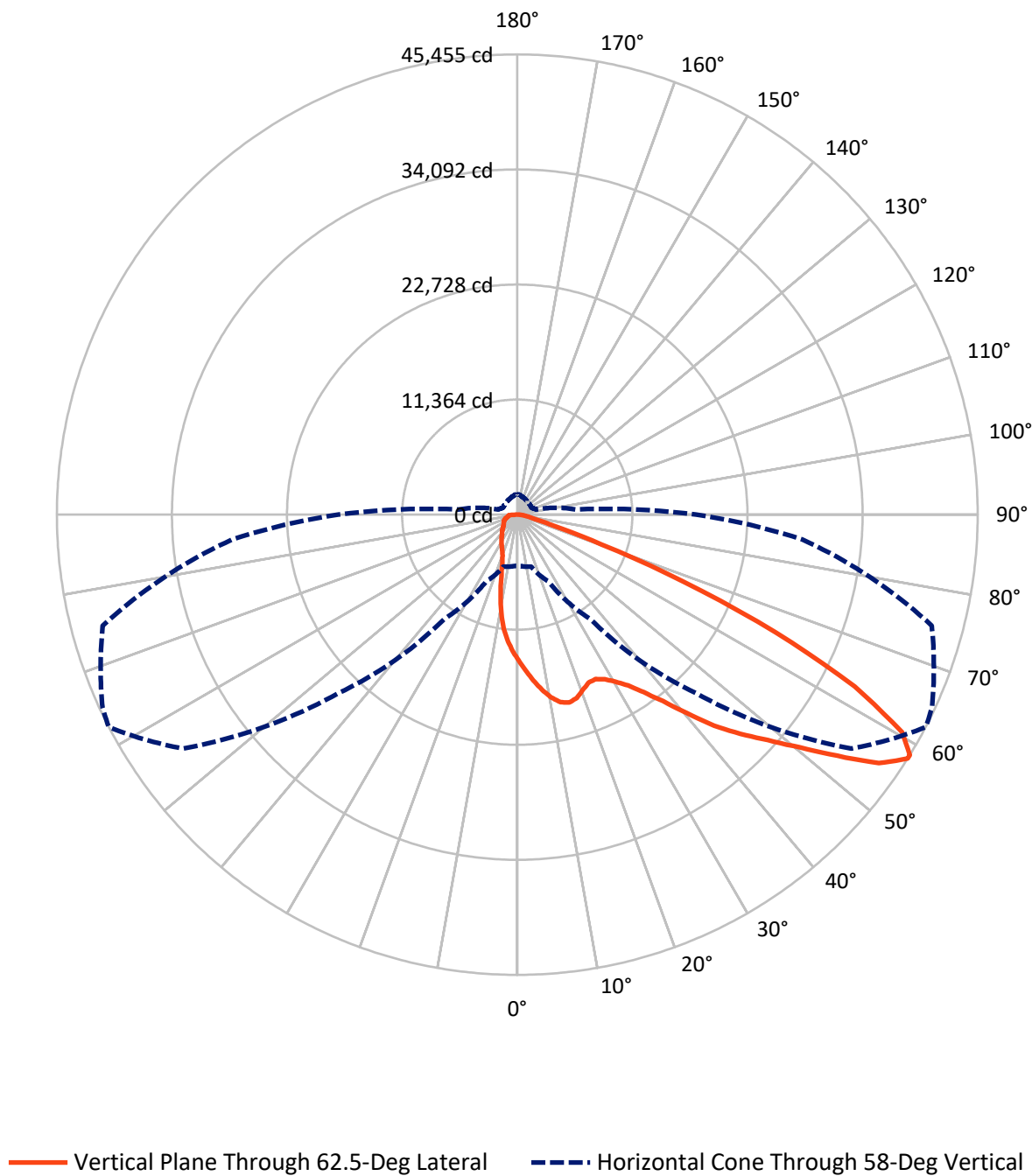


Based on 30 foot mounting height. Maximum calculated value = 19.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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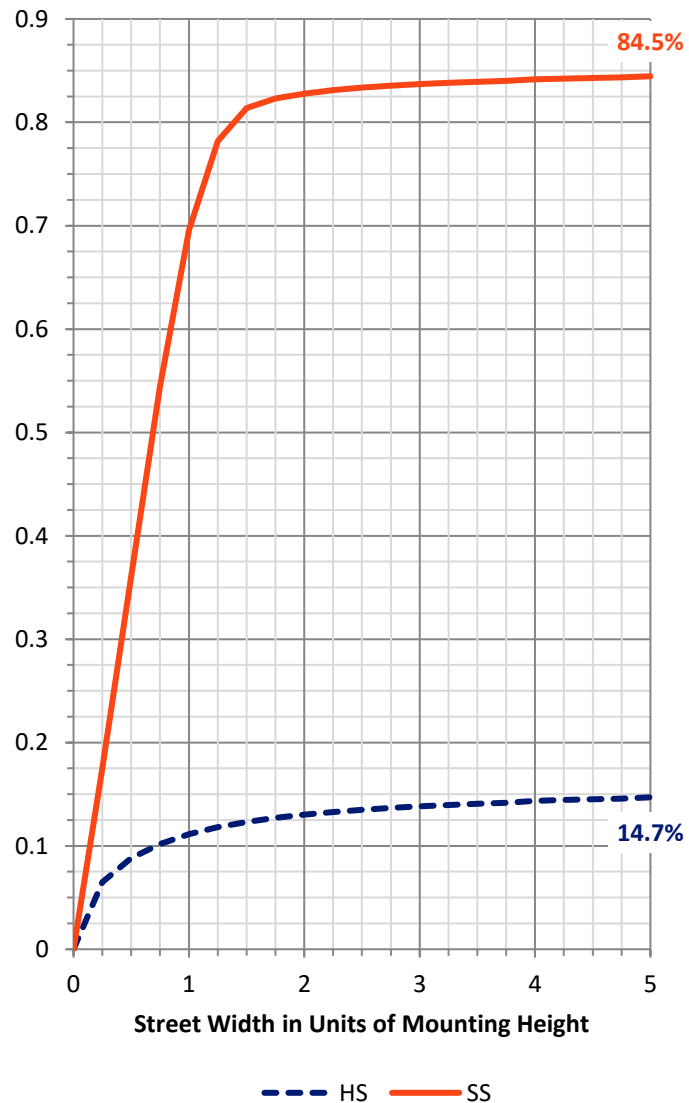
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8251.4	0.0	8251.4
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	45854.6	0.0	45854.6
	% Fixture	84.7	0.0	84.7
Total	Lumens	54106.0	0.0	54106.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1285.4	2.4
10°-20°	3285.6	6.1
20°-30°	5311.3	9.8
30°-40°	8431.7	15.6
40°-50°	12337.3	22.8
50°-60°	12903.8	23.8
60°-70°	7623.6	14.1
70°-80°	2147.6	4.0
80°-90°	779.7	1.4
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°	54106.0	100.0
0°-180°	54106.0	100.0

Coefficient of Utilization



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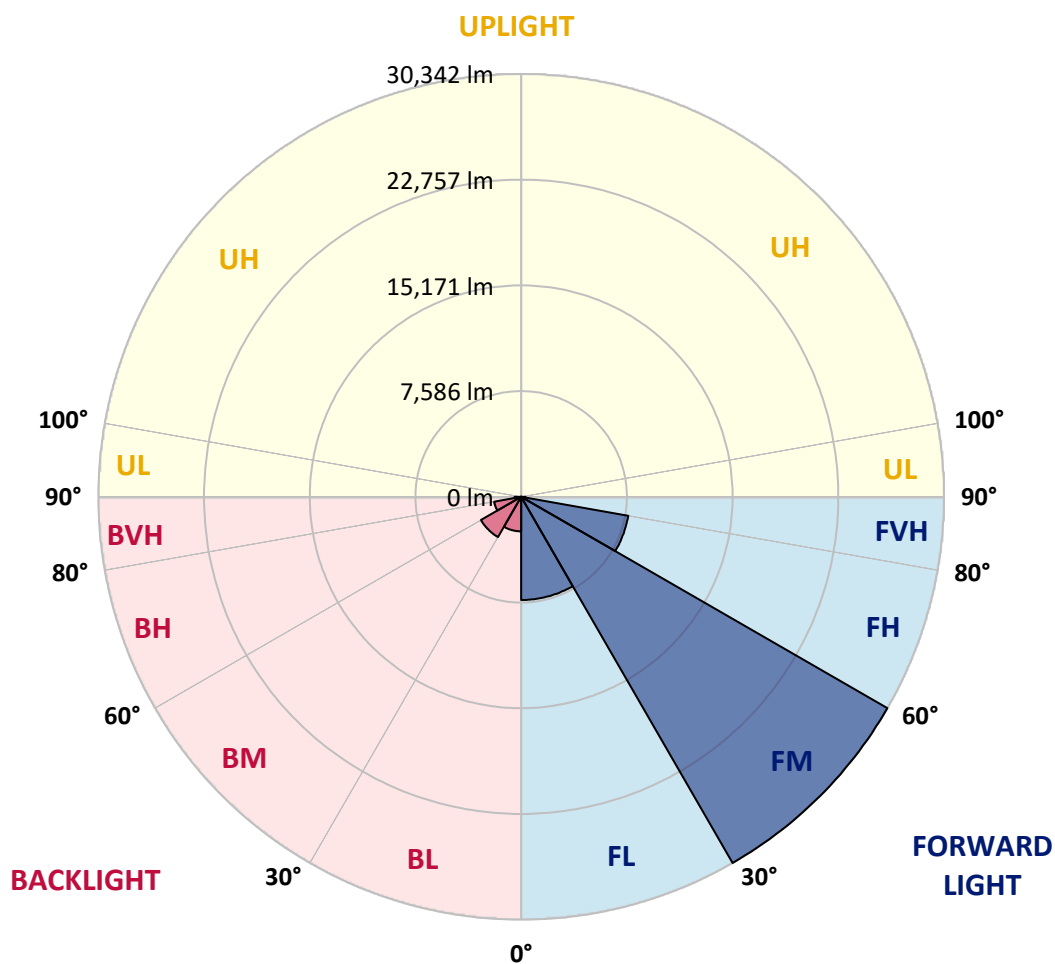
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7402.4	13.7			
FM	(30°-60°)	30342.3	56.1			
FH	(60°-80°)	7802.3	14.4			G4/12000
FVH	(80°-90°)	307.6	0.6			G3/500
BL	(0°-30°)	2480.0	4.6	B3/2500		
BM	(30°-60°)	3330.5	6.2	B3/5000		
BH	(60°-80°)	1968.9	3.6	B3/2500		G3/2500
BVH	(80°-90°)	472.1	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2
2.5°	16423.1	16290.7	16206.6	16132.7	16035.9	15829.5	15551.8	15376.0	15286.8	14983.6	14624.4
5°	18033.4	17916.2	17829.5	17730.2	17556.9	17233.3	16784.9	16428.2	16252.4	15646.1	14927.6
7.5°	17656.3	17704.7	17855.0	18117.4	18341.6	18298.3	17898.3	17444.8	17213.0	16369.6	15279.2
10°	15383.6	15467.7	15727.6	16341.6	17335.3	18354.4	18665.2	18351.8	18117.4	17085.6	15641.0
12.5°	14927.6	14925.0	14945.4	15108.5	15699.6	17134.0	18690.7	19006.6	18866.5	17768.4	16010.4
15°	15113.6	15118.7	15103.4	15172.2	15355.6	15923.8	17911.1	19258.8	19358.2	18456.3	16392.6
17.5°	15602.7	15590.0	15531.4	15531.4	15597.7	15819.3	16993.8	19024.4	19483.0	19065.2	16728.9
20°	16423.1	16364.5	16209.1	16066.4	15995.1	16114.9	16616.8	18484.3	19266.5	19597.7	17006.6
22.5°	17416.8	17370.9	17118.7	16813.0	16565.8	16563.3	16810.4	18013.0	18892.0	20099.6	17241.0
25°	18700.9	18627.0	18252.5	17763.3	17330.2	17164.5	17233.3	17990.0	18688.1	20644.8	17449.9
27.5°	20209.2	20074.1	19630.8	18925.1	18288.1	17954.4	17855.0	18405.3	18874.1	21320.0	17740.4
30°	22038.5	21883.1	21314.9	20395.2	19495.8	18948.0	18736.5	19141.6	19490.7	22143.0	18206.6
32.5°	24120.1	23895.8	23238.5	22224.5	21042.3	20206.6	19862.7	20114.9	20392.6	23134.1	18790.0
35°	26996.5	26729.0	25778.7	24379.9	23044.9	21895.8	21345.5	21528.9	21799.0	24611.8	19633.4
37.5°	28958.3	28838.6	28206.7	26892.1	25439.8	24117.5	23266.5	23373.5	23526.4	26458.9	20713.6
40°	28940.5	28988.9	29001.6	29014.4	28025.8	26759.6	25844.9	25732.8	25702.2	28487.0	21941.7
42.5°	27490.8	27689.5	28331.6	29633.5	30234.8	29653.9	28815.7	28492.1	28331.6	30876.8	23243.6
45°	25271.7	25378.7	26581.2	29123.9	31366.0	32520.2	31885.8	30866.6	30576.2	33073.0	24323.9
47.5°	24127.7	24244.9	25001.6	27773.6	31353.3	34836.1	35203.0	33261.6	32741.8	34983.9	25256.4
50°	21404.1	21648.7	22601.6	25424.5	30209.3	35901.1	38670.6	36115.1	35039.9	36843.8	26191.4
52.5°	16402.8	16779.8	17847.4	21562.1	27307.4	35373.7	41445.1	39575.0	38056.5	38769.9	26994.0
55°	10346.6	10626.9	11523.7	15228.2	21844.9	32629.7	42497.4	43317.7	41967.4	40594.1	27689.5
57.5°	5625.5	5750.4	6086.7	8407.8	14209.1	26563.4	40963.6	45447.7	44887.2	42143.2	28214.4
58°	5034.5	5118.5	5327.5	7286.7	12601.4	24904.8	40283.3	45455.4	45175.1	42370.0	28255.1
60°	3735.1	3691.8	3505.8	4158.0	7014.1	17205.3	36171.2	43636.2	44459.2	42647.7	28056.4
62.5°	3281.6	3177.1	2797.5	2754.2	3411.5	7926.2	27676.8	37378.8	39322.8	41062.9	26848.7
65°	3082.8	2970.7	2481.6	2323.6	2461.2	3352.9	16303.4	28033.5	30471.7	36257.8	23760.8
67.5°	2935.1	2789.8	2280.3	2063.7	2073.9	2216.6	6535.1	17656.3	20400.3	27529.0	18481.8
70°	2792.4	2634.4	2109.6	1859.9	1801.3	1752.9	2598.8	8838.3	11327.5	17388.8	11783.6
72.5°	2639.5	2484.1	1959.3	1699.4	1584.7	1424.2	1696.8	3615.3	5049.7	8226.9	5345.3
75°	2417.9	2277.7	1808.9	1556.7	1393.6	1179.6	1281.5	1887.9	2265.0	3276.5	2575.8
77.5°	2145.3	2030.6	1640.8	1439.5	1235.7	958.0	986.0	1309.6	1452.2	1875.2	1531.2
80°	1541.4	1582.2	1459.9	1294.3	1100.7	777.1	756.7	955.4	1031.9	1205.1	996.2
82.5°	1082.8	1105.7	1207.7	1057.3	909.6	611.5	558.0	672.6	718.5	792.4	537.6
85°	746.5	721.0	828.0	736.3	657.3	407.6	382.2	456.1	484.1	491.7	277.7
87.5°	448.4	448.4	479.0	394.9	354.1	211.5	206.4	259.9	277.7	265.0	152.9
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°	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2	14372.2
2.5°	14410.4	14229.5	13844.8	13536.5	13146.7	12741.6	12514.8	12272.8	12107.2	11987.4	12178.5
5°	14519.9	14150.5	13355.6	12601.4	11768.3	10902.0	10244.7	9633.2	9207.8	8942.8	9192.5
7.5°	14693.2	14125.0	12858.8	11569.6	10074.0	8632.0	7342.8	6535.1	6063.8	5831.9	5977.1
10°	14891.9	14084.3	12275.3	10170.8	8030.7	6214.1	5251.0	4924.9	4817.9	4774.6	4795.0
12.5°	15057.5	13997.6	11559.4	8479.1	6030.6	4907.1	4629.4	4621.7	4644.6	4649.7	4657.4
15°	15174.7	13870.2	10496.9	6716.0	4823.0	4471.4	4456.1	4502.0	4545.3	4563.1	4573.3
17.5°	15253.7	13607.8	9296.9	5309.6	4321.1	4259.9	4295.6	4354.2	4400.1	4412.8	4423.0
20°	15246.1	13223.1	7867.6	4428.1	4048.5	4048.5	4109.6	4155.5	4158.0	4142.7	4150.4
22.5°	15167.1	12695.7	6481.6	3959.3	3806.4	3849.7	3910.9	3867.6	3689.2	3572.0	3579.7
25°	15034.6	12066.4	5294.3	3661.2	3582.2	3658.6	3640.8	3314.7	3059.9	2945.3	2945.3
27.5°	14917.4	11322.4	4382.2	3401.3	3358.0	3452.3	3136.3	2840.8	2733.8	2680.3	2662.5
30°	14833.3	10519.9	3773.3	3151.6	3146.5	3077.7	2721.1	2639.5	2621.7	2578.4	2563.1
32.5°	14853.7	9707.1	3383.5	2932.5	2950.4	2634.4	2522.3	2540.2	2524.9	2479.0	2458.6
35°	15021.8	8935.1	3128.7	2733.8	2680.3	2379.6	2405.1	2438.2	2433.2	2369.5	2349.1
37.5°	15322.5	8203.9	2960.5	2568.2	2338.9	2252.3	2293.0	2344.0	2331.2	2287.9	2272.6
40°	15638.4	7516.0	2823.0	2438.2	2137.6	2165.6	2201.3	2229.3	2242.1	2254.8	2244.6
42.5°	15946.7	6797.5	2654.8	2305.8	2053.5	2084.1	2099.4	2127.4	2196.2	2244.6	2242.1
45°	16130.1	6122.4	2481.6	2117.2	1987.3	2005.1	1994.9	2051.0	2135.1	2214.0	2216.6
47.5°	16334.0	5597.5	2344.0	1944.0	1923.6	1936.3	1905.8	1961.8	2038.2	2135.1	2145.3
50°	16581.1	5284.1	2234.4	1806.4	1837.0	1837.0	1829.3	1880.3	1987.3	2099.4	2119.8
52.5°	16861.4	5223.0	2142.7	1707.0	1750.3	1747.8	1755.4	1831.9	1949.1	2058.6	2076.5
55°	17202.8	5388.6	2043.3	1633.1	1666.3	1676.5	1701.9	1788.6	1887.9	2012.8	2020.4
57.5°	17600.2	5724.9	1964.4	1574.5	1589.8	1623.0	1663.7	1742.7	1849.7	1987.3	1994.9
58°	17666.5	5796.3	1951.6	1569.4	1574.5	1612.8	1658.6	1735.1	1842.1	1992.4	2000.0
60°	17669.0	6033.2	1923.6	1546.5	1515.9	1579.6	1630.6	1707.0	1829.3	2010.2	2028.1
62.5°	17042.3	6030.6	1903.2	1513.4	1454.8	1533.8	1592.4	1681.6	1816.6	2053.5	2089.2
65°	15006.6	5480.3	1806.4	1462.4	1406.4	1493.0	1559.3	1663.7	1852.3	2242.1	2265.0
67.5°	11737.7	4491.8	1625.5	1391.1	1342.7	1452.2	1538.9	1661.2	1890.5	2285.4	2300.7
70°	7760.6	3360.6	1426.8	1309.6	1276.4	1403.8	1549.1	1747.8	1847.2	2193.7	2152.9
72.5°	4028.1	2359.3	1266.3	1207.7	1200.0	1360.5	1696.8	1737.6	1803.8	2063.7	2012.8
75°	2114.7	1638.2	1126.1	1095.6	1108.3	1350.3	2002.6	1691.7	1747.8	1974.5	2071.4
77.5°	1294.3	1322.3	1006.4	993.6	1019.1	1319.8	2000.0	1633.1	1666.3	1816.6	1923.6
80°	866.3	1072.6	914.7	917.2	935.0	1207.7	1796.2	1541.4	1566.9	1717.2	1826.8
82.5°	547.8	634.4	830.6	873.9	851.0	996.2	1526.1	1403.8	1439.5	1964.4	2076.5
85°	277.7	397.5	721.0	840.8	766.9	698.1	1238.2	1230.6	1248.4	1416.6	1480.3
87.5°	127.4	219.1	563.1	733.8	578.4	435.7	899.4	912.1	983.5	1006.4	1006.4
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)