

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: P318201

Luminaire Tested: **GAN-SA7B-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29160 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

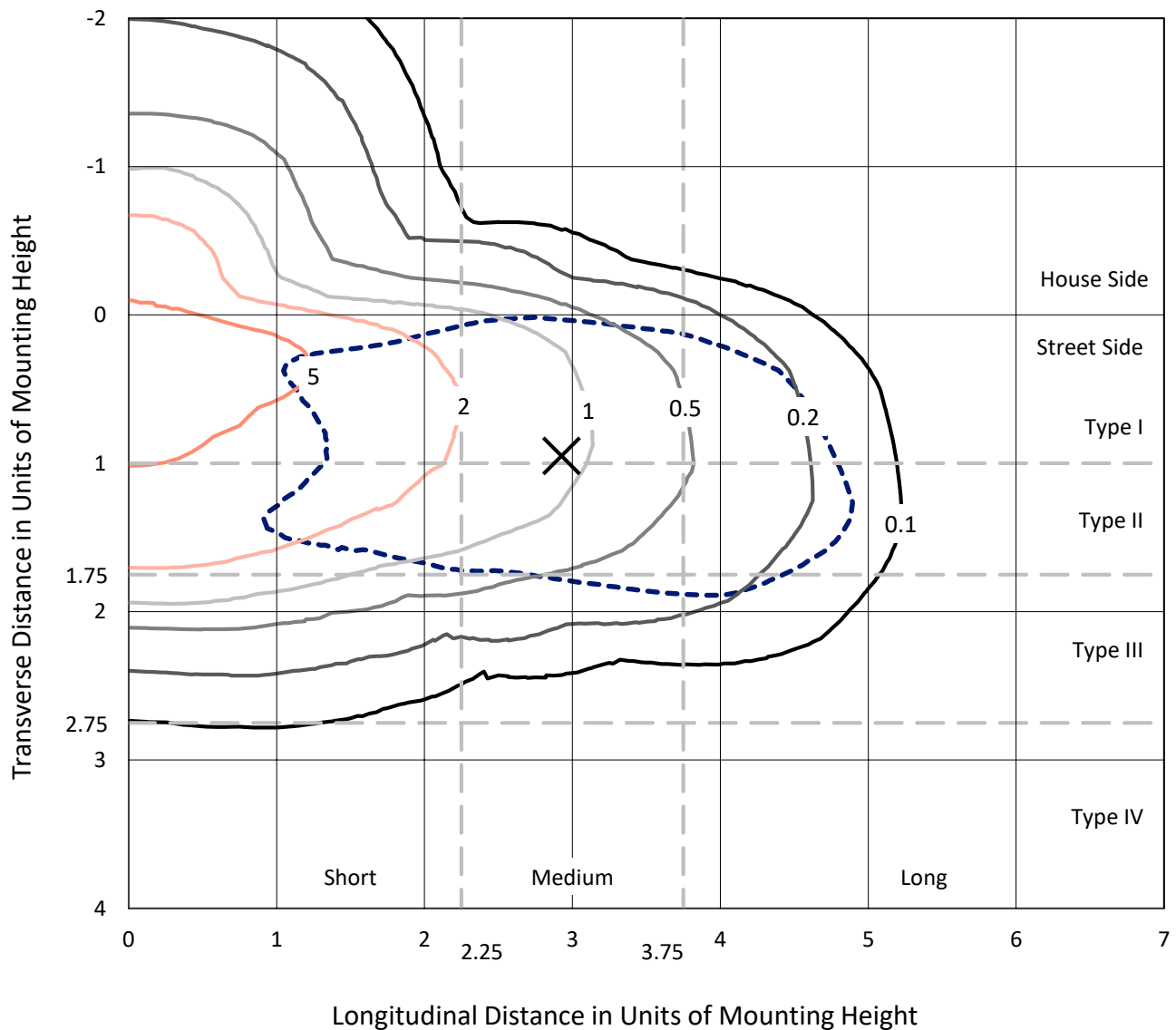
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

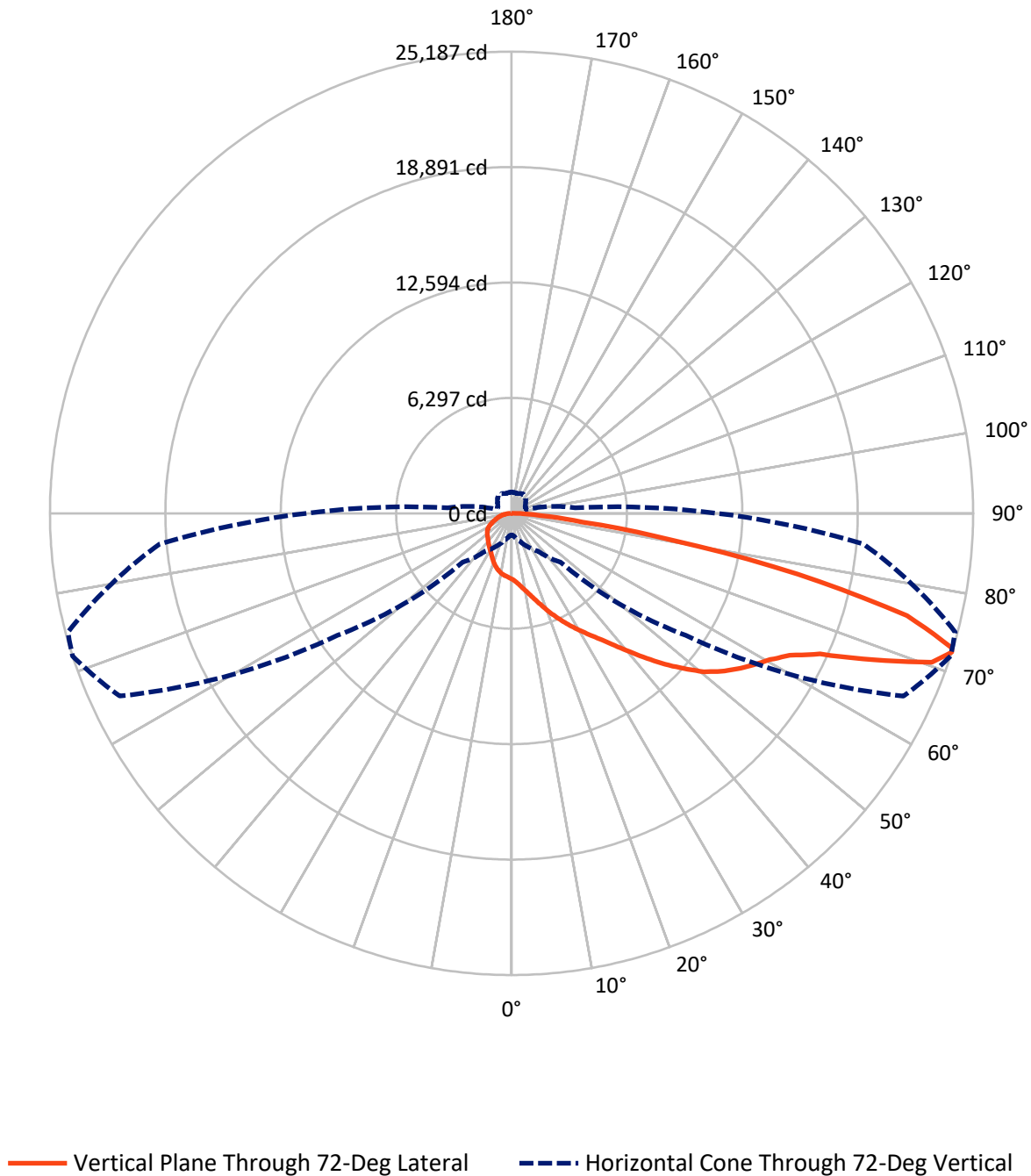
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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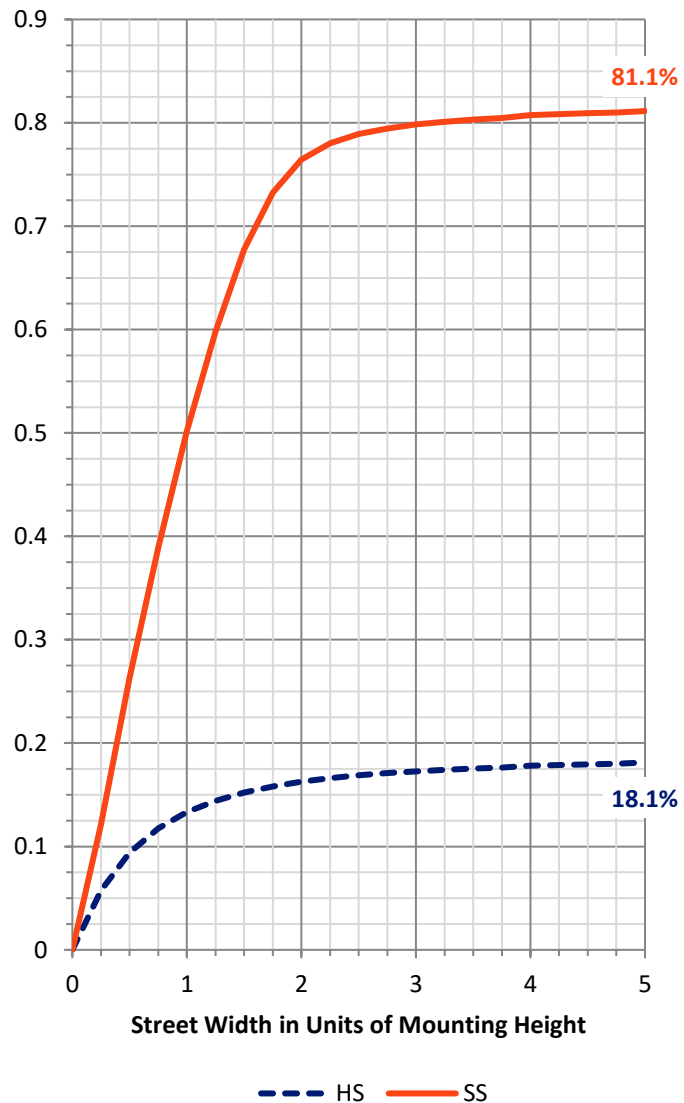
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5409.4	0.0	5409.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23750.6	0.0	23750.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	29160.0	0.0	29160.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.5	1.2
10°-20°	1161.6	4.0
20°-30°	2035.6	7.0
30°-40°	3018.1	10.4
40°-50°	4414.2	15.1
50°-60°	6073.9	20.8
60°-70°	6762.1	23.2
70°-80°	4582.0	15.7
80°-90°	753.1	2.6
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°	29160.0	100.0
0°-180°	29160.0	100.0

Coefficient of Utilization



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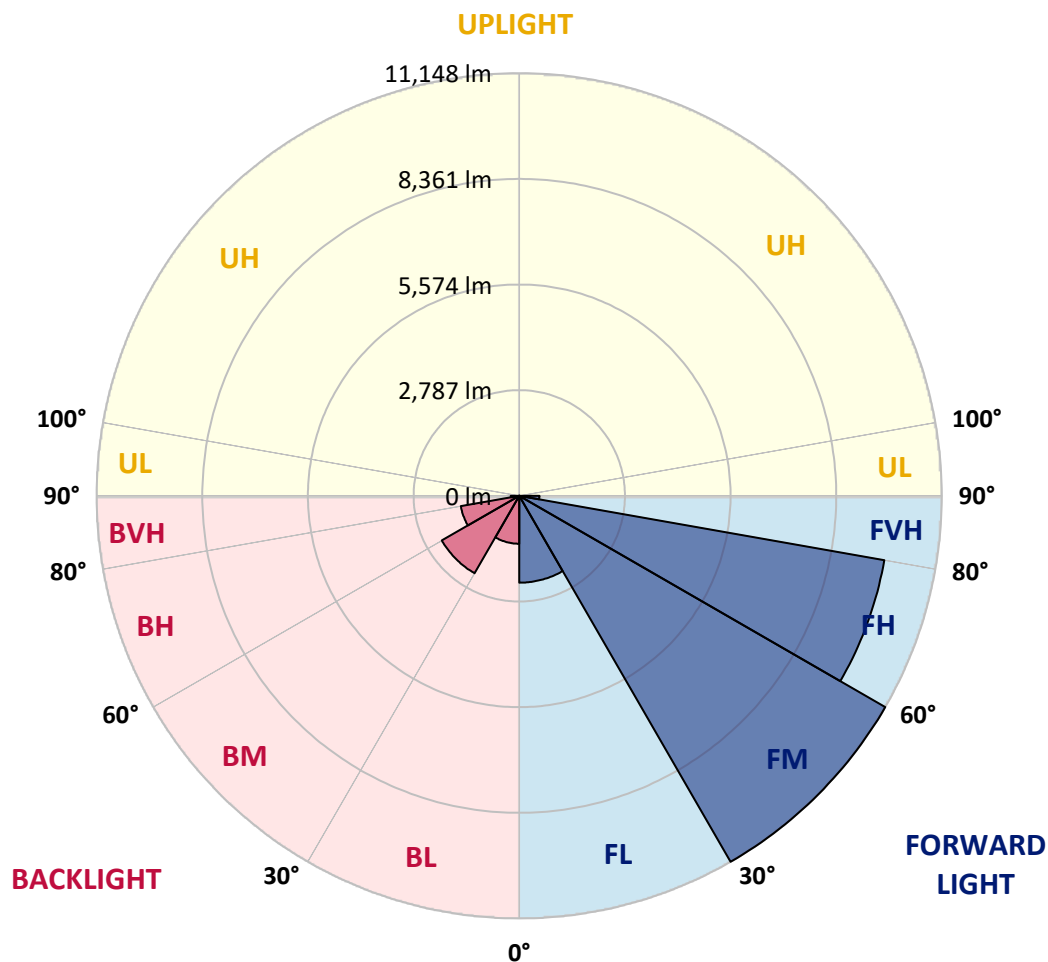
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2292.1	7.9			
FM	(30°-60°)	11148.2	38.2			
FH	(60°-80°)	9779.0	33.5			G4/12000
FVH	(80°-90°)	531.2	1.8			G4/750
BL	(0°-30°)	1264.5	4.3	B3/2500		
BM	(30°-60°)	2358.0	8.1	B2/2500		
BH	(60°-80°)	1565.0	5.4	B3/2500		G3/2500
BVH	(80°-90°)	221.9	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4
2.5°	3963.0	3956.9	3935.8	3935.8	3895.7	3861.5	3797.3	3754.1	3702.9	3684.8	3624.6
5°	4346.5	4348.5	4322.4	4304.3	4245.1	4172.8	4063.4	3964.0	3864.6	3824.4	3700.9
7.5°	4668.8	4664.8	4657.7	4642.7	4587.5	4513.2	4365.6	4218.0	4071.4	4011.1	3798.3
10°	4875.6	4884.7	4890.7	4897.7	4874.6	4821.4	4681.8	4502.1	4310.4	4228.0	3914.8
12.5°	4980.0	4996.1	5024.2	5072.4	5110.6	5104.5	5003.1	4812.4	4584.5	4481.0	4060.3
15°	5041.3	5062.4	5106.6	5192.9	5300.3	5361.6	5334.5	5161.8	4907.8	4780.2	4238.1
17.5°	5079.4	5096.5	5164.8	5280.3	5439.9	5602.6	5673.8	5529.3	5273.2	5127.6	4441.9
20°	5105.6	5118.6	5203.9	5339.5	5546.3	5805.4	6004.2	5968.0	5675.8	5487.1	4654.7
22.5°	5163.8	5174.8	5256.2	5392.7	5621.6	5956.0	6322.5	6376.7	6100.6	5886.7	4882.7
25°	5326.4	5326.4	5394.7	5490.1	5705.0	6086.5	6591.5	6831.5	6534.3	6285.3	5093.5
27.5°	5636.7	5633.7	5658.8	5691.9	5854.6	6219.0	6831.5	7233.1	6984.1	6712.0	5298.3
30°	6004.2	6024.2	6027.3	6011.2	6087.5	6384.7	7053.4	7656.8	7436.9	7143.8	5508.2
32.5°	6477.1	6490.1	6475.1	6421.9	6410.8	6619.6	7271.3	8100.6	7926.9	7594.6	5699.9
35°	7077.5	7052.4	7005.2	6896.8	6793.3	6933.9	7520.3	8544.4	8477.1	8139.8	5964.0
37.5°	7721.1	7722.1	7663.8	7417.9	7275.3	7335.5	7863.7	9047.4	9142.8	8788.4	6302.4
40°	8237.2	8264.3	8300.4	7977.1	7792.4	7875.7	8300.4	9630.8	9930.0	9557.5	6743.1
42.5°	8597.6	8628.7	8731.1	8528.3	8336.6	8491.2	8814.5	10253.3	10813.5	10445.0	7259.2
45°	8979.1	8996.2	9068.5	8981.2	8858.7	9207.1	9393.8	10897.9	11748.3	11390.9	7836.5
47.5°	9380.8	9398.8	9473.1	9414.9	9350.6	9875.8	9998.2	11505.3	12643.9	12430.0	8453.0
50°	9876.8	9888.8	9959.1	9853.7	9873.7	10379.8	10538.4	12062.6	13582.7	13363.8	9071.5
52.5°	10553.5	10556.5	10653.9	10558.5	10464.1	10749.3	11003.3	12587.7	14318.6	14215.2	9690.0
55°	11083.6	11115.7	11435.0	11414.9	11360.7	11084.6	11391.9	13087.7	14975.3	15024.5	10346.6
57.5°	10745.3	10870.8	11517.4	11973.2	12417.0	11919.0	11917.0	13651.0	15585.7	15818.7	11068.6
60°	9410.9	9581.6	10534.4	11545.5	12934.1	13370.8	13007.4	14338.7	16202.2	16605.8	11973.2
62.5°	6721.1	7002.2	8293.4	9907.9	12225.2	14332.7	15226.3	15430.1	17040.6	17517.5	13148.9
65°	3397.7	3610.5	4692.9	6637.7	9767.3	13704.2	17638.0	17819.7	18497.5	18921.2	14959.2
67.5°	2064.3	2144.6	2672.8	3691.9	5988.1	10675.0	18425.2	21802.8	21316.8	21541.7	17540.6
70°	1521.1	1580.4	1909.7	2451.9	3443.9	6264.2	16009.4	24645.2	24325.9	24300.8	19448.3
72°	1184.8	1227.9	1519.1	1981.0	2518.1	3758.1	11603.7	23596.0	25187.4	25060.9	19273.6
72.5°	1123.5	1161.7	1426.7	1864.5	2379.6	3406.7	10433.0	22888.1	25125.1	25067.9	19047.7
75°	884.6	911.7	1056.3	1441.8	1862.5	1932.8	5717.0	17737.4	22288.7	23215.5	17132.0
77.5°	731.9	736.0	812.3	1049.2	1451.8	1366.5	2808.3	12306.5	15960.2	16979.3	12135.9
80°	596.4	601.4	637.6	736.0	1098.4	1011.1	1333.4	7076.5	8936.0	8947.0	5771.2
82.5°	474.9	475.9	516.1	538.2	789.2	722.9	764.1	3322.4	3904.7	3756.1	2074.4
85°	334.3	327.3	504.0	441.8	516.1	463.9	421.7	1315.3	1614.5	1544.2	649.6
87.5°	111.4	115.5	223.9	286.2	301.2	263.1	187.8	504.0	609.5	604.4	205.8
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°	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4	3587.4
2.5°	3605.5	3573.4	3526.2	3474.0	3432.8	3390.6	3359.5	3343.5	3325.4	3310.3	3328.4
5°	3643.7	3583.4	3483.0	3384.6	3312.3	3248.1	3201.9	3177.8	3155.7	3140.6	3142.7
7.5°	3705.9	3608.5	3439.8	3296.3	3195.9	3126.6	3079.4	3063.3	3049.3	3045.3	3050.3
10°	3772.2	3628.6	3382.6	3191.8	3077.4	3020.2	2999.1	3010.1	3020.2	3029.2	3039.2
12.5°	3847.5	3646.7	3299.3	3069.4	2972.0	2949.9	2971.0	3019.2	3054.3	3075.4	3088.4
15°	3945.9	3662.7	3202.9	2946.9	2881.6	2906.7	2978.0	3061.3	3122.6	3161.7	3167.8
17.5°	4036.2	3661.7	3079.4	2823.4	2808.3	2881.6	2989.0	3106.5	3188.8	3244.1	3255.1
20°	4129.6	3634.6	2935.8	2702.9	2734.0	2854.5	2994.1	3135.6	3235.0	3299.3	3314.3
22.5°	4217.0	3587.4	2778.2	2593.4	2671.8	2818.3	2975.0	3118.6	3218.0	3270.2	3286.2
25°	4276.2	3505.1	2618.5	2501.1	2616.5	2774.2	2912.7	3028.2	3102.5	3128.6	3132.6
27.5°	4306.3	3397.7	2467.9	2420.7	2559.3	2701.9	2797.3	2854.5	2875.6	2873.6	2869.6
30°	4310.4	3256.1	2338.4	2355.5	2493.0	2595.4	2640.6	2629.6	2602.5	2556.3	2560.3
32.5°	4297.3	3096.5	2230.0	2293.2	2408.7	2465.9	2467.9	2414.7	2342.4	2269.1	2249.1
35°	4301.3	2939.8	2134.6	2222.9	2306.3	2331.4	2308.3	2230.0	2131.6	2037.2	2017.1
37.5°	4345.5	2803.3	2052.3	2141.6	2192.8	2198.9	2165.7	2083.4	2011.1	1918.7	1910.7
40°	4450.9	2705.9	1973.9	2050.3	2079.4	2082.4	2035.2	1977.0	1983.0	1933.8	1932.8
42.5°	4640.7	2663.7	1904.7	1954.9	1972.9	1979.0	1942.8	1905.7	1957.9	1925.8	1914.7
45°	4885.7	2673.8	1846.4	1861.5	1894.6	1922.7	1900.7	1855.5	1875.5	1736.0	1689.8
47.5°	5168.8	2738.0	1800.2	1781.2	1838.4	1891.6	1857.5	1789.2	1717.9	1579.4	1553.3
50°	5500.1	2837.4	1758.1	1701.9	1777.2	1849.4	1815.3	1717.9	1610.5	1543.2	1534.2
52.5°	5845.5	2958.9	1715.9	1614.5	1699.8	1817.3	1800.2	1701.9	1569.3	1503.1	1491.0
55°	6237.1	3081.4	1662.7	1513.1	1616.5	1802.3	1793.2	1643.6	1538.2	1501.0	1492.0
57.5°	6724.1	3221.0	1592.4	1407.7	1538.2	1748.0	1719.9	1608.5	1506.1	1477.9	1474.9
60°	7358.6	3426.8	1491.0	1295.2	1442.8	1664.7	1658.7	1557.3	1454.9	1434.8	1430.8
62.5°	8310.5	3767.2	1351.4	1182.8	1336.4	1523.1	1578.4	1488.0	1400.6	1399.6	1401.6
65°	9786.4	4279.2	1199.8	1084.4	1228.9	1403.7	1485.0	1416.7	1345.4	1365.5	1368.5
67.5°	11497.3	4703.9	1051.2	988.0	1119.5	1290.2	1400.6	1345.4	1272.1	1324.3	1325.3
70°	12066.6	4324.4	920.7	892.6	1006.0	1180.8	1309.3	1267.1	1192.8	1245.0	1240.0
72°	11229.2	3491.1	836.4	820.3	920.7	1090.4	1227.9	1193.8	1120.5	1155.7	1142.6
72.5°	10965.1	3328.4	815.3	802.2	897.6	1067.3	1206.9	1175.7	1102.4	1132.6	1120.5
75°	9781.4	2890.6	700.8	703.8	783.2	954.8	1088.4	1078.3	1003.0	1006.0	1002.0
77.5°	7094.6	2119.5	590.4	610.5	666.7	839.4	968.9	962.9	880.5	865.5	862.5
80°	3292.3	1081.4	480.9	490.0	548.2	701.8	826.3	818.3	752.0	733.0	721.9
82.5°	1127.5	514.1	361.5	367.5	424.7	565.3	716.9	711.9	656.6	619.5	596.4
85°	402.6	256.0	253.0	247.0	303.2	444.8	624.5	597.4	516.1	439.8	437.8
87.5°	130.5	109.4	130.5	129.5	176.7	301.2	453.8	386.6	374.5	311.3	305.2
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)