

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: P286940

Luminaire Tested: **USSL-C029-D-U-T2-AP-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P286940
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-4)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C029-D-U-T2-AP-7030
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE II OPTICS, GRAY PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17869.9 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 131
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



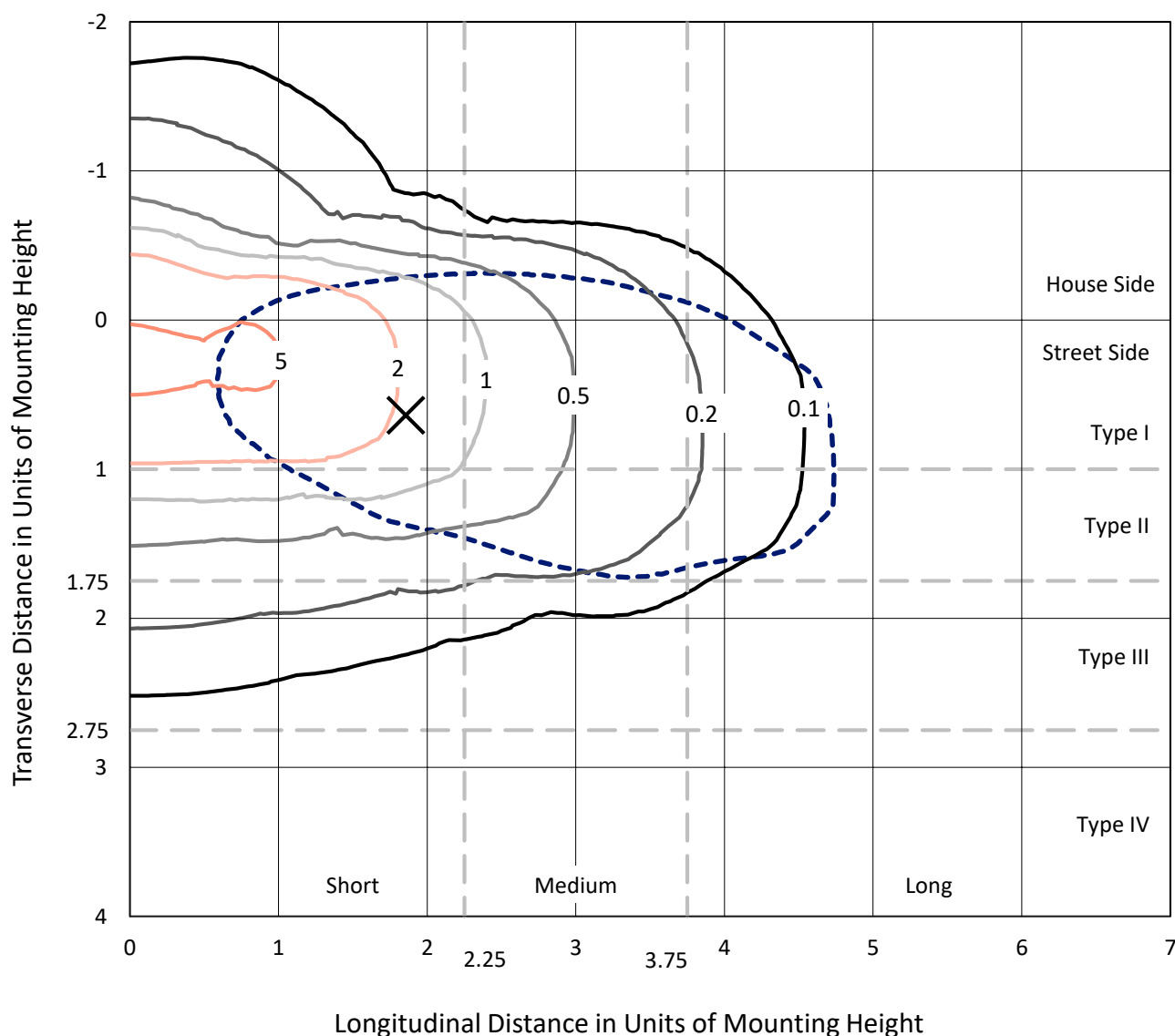
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

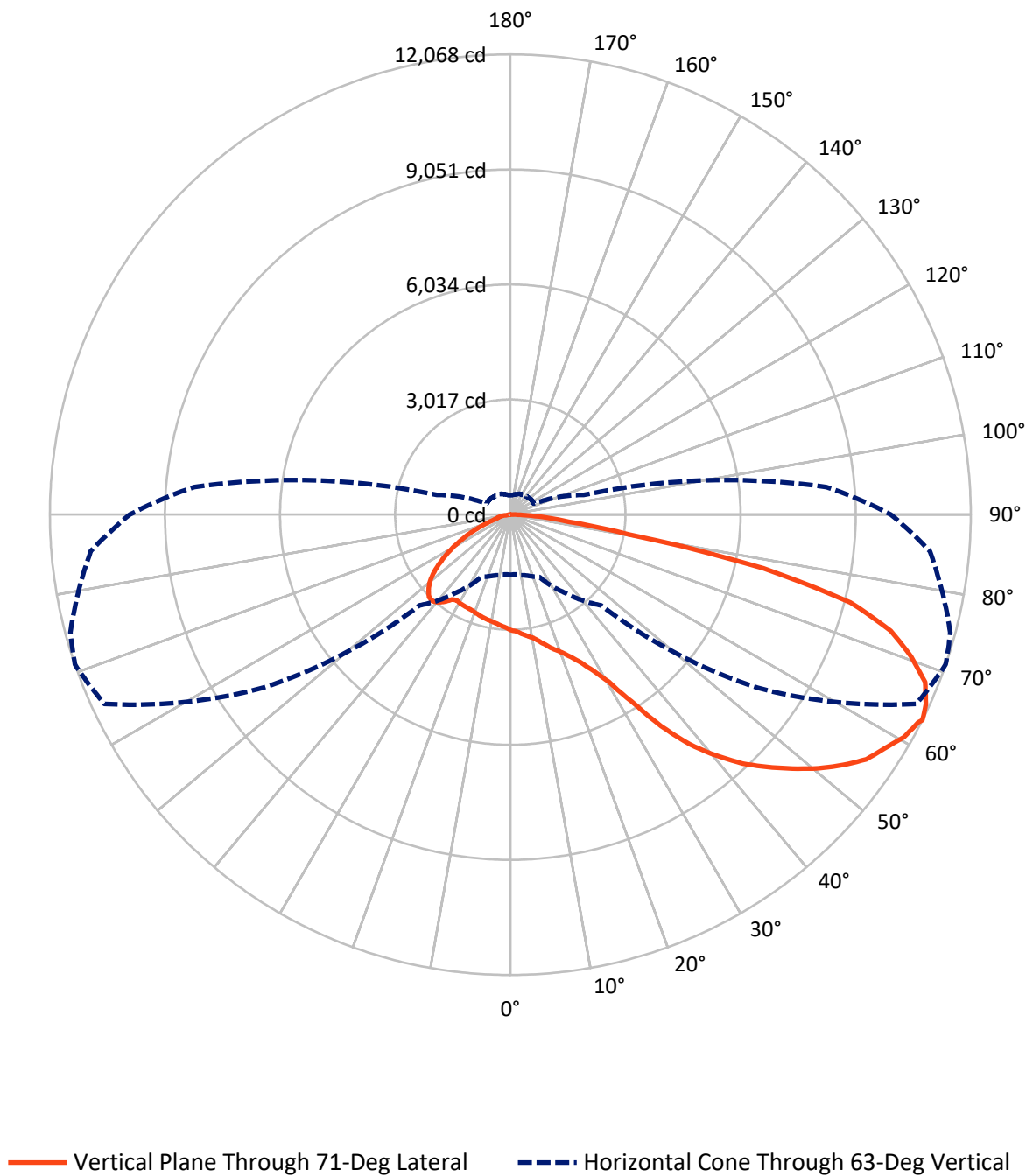


Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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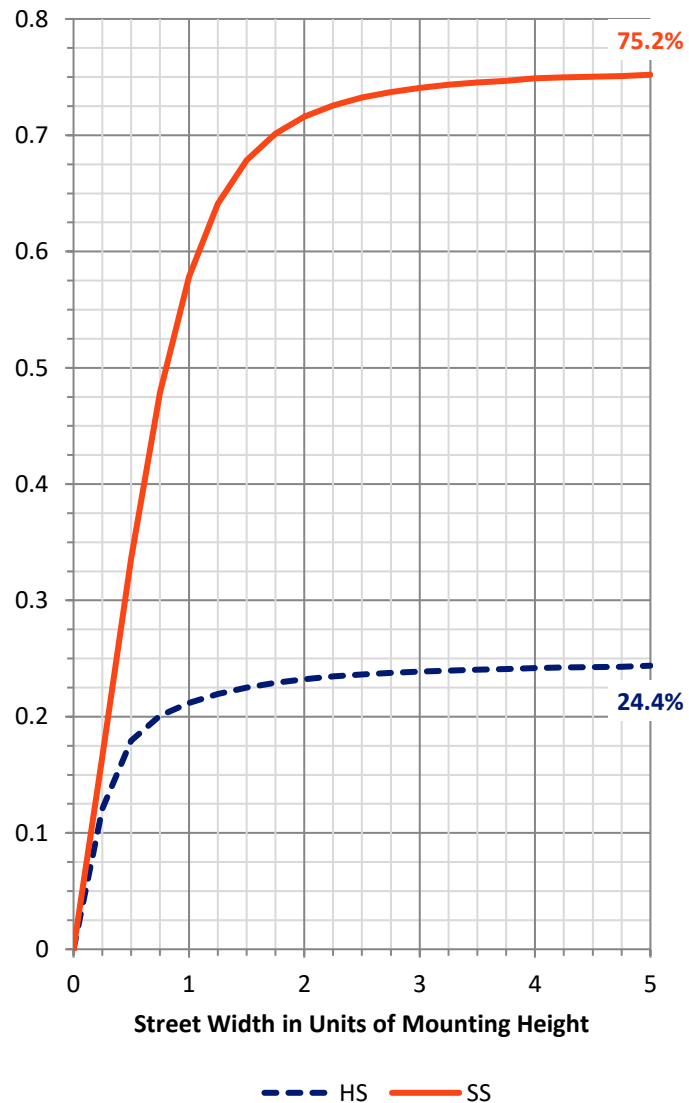
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4432.0	0.0	4432.0
	% Fixture	24.8	0.0	24.8
Street Side	Lumens	13438.0	0.0	13438.0
	% Fixture	75.2	0.0	75.2
Total	Lumens	17869.9	0.0	17869.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.6	1.6
10°-20°	889.3	5.0
20°-30°	1501.6	8.4
30°-40°	2256.6	12.6
40°-50°	3101.9	17.4
50°-60°	3606.8	20.2
60°-70°	3585.9	20.1
70°-80°	2263.3	12.7
80°-90°	372.9	2.1
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°	17869.9	100.0
0°-180°	17869.9	100.0

Coefficient of Utilization



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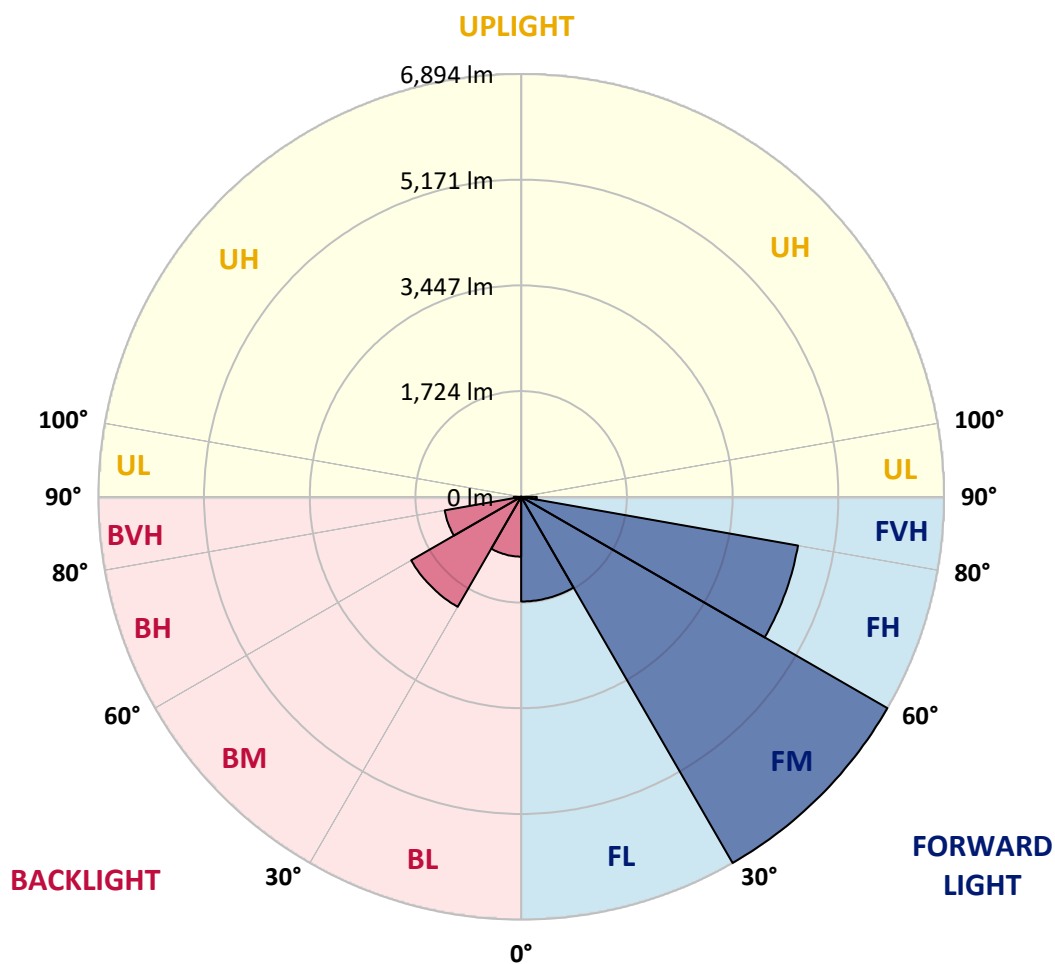
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1707.1	9.6			
FM	(30°-60°)	6894.2	38.6			
FH	(60°-80°)	4583.0	25.6			G2/5000
FVH	(80°-90°)	253.7	1.4			G3/500
BL	(0°-30°)	975.5	5.5	B2/1000		
BM	(30°-60°)	2071.1	11.6	B2/2500		
BH	(60°-80°)	1266.2	7.1	B3/2500		G3/2500
BVH	(80°-90°)	119.2	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3
2.5°	3247.9	3242.7	3235.7	3191.1	3183.3	3156.3	3127.4	3096.1	3061.2	3065.5	3022.8
5°	3430.2	3418.8	3414.5	3348.1	3299.3	3269.7	3230.4	3158.9	3138.8	3123.1	3040.2
7.5°	3576.6	3581.8	3572.3	3509.4	3460.7	3411.8	3342.1	3236.5	3210.3	3177.2	3095.2
10°	3695.2	3708.4	3701.4	3629.8	3588.0	3540.0	3455.4	3347.3	3287.1	3239.2	3108.3
12.5°	3838.3	3830.5	3832.2	3764.1	3727.6	3662.1	3600.2	3477.2	3408.3	3342.1	3168.5
15°	4017.0	4006.6	3993.5	3928.1	3873.2	3834.8	3768.5	3631.5	3556.6	3493.7	3264.4
17.5°	4175.8	4139.1	4133.1	4060.7	4017.0	3965.6	3920.3	3803.3	3710.1	3629.0	3370.0
20°	4282.2	4263.9	4239.5	4197.6	4179.3	4140.9	4084.2	3956.0	3851.4	3768.5	3459.7
22.5°	4353.8	4343.3	4343.3	4330.1	4338.9	4323.2	4277.9	4156.6	4049.3	3931.6	3597.5
25°	4374.6	4342.4	4388.6	4439.2	4500.2	4527.3	4485.4	4401.7	4294.4	4179.3	3775.5
27.5°	4389.5	4384.3	4441.8	4528.1	4682.5	4744.4	4744.4	4697.4	4628.5	4492.4	4033.7
30°	4391.2	4393.0	4470.6	4604.0	4812.5	4984.3	4993.0	5118.6	5082.9	4978.1	4428.7
32.5°	4266.5	4262.2	4379.0	4611.8	4912.7	5186.6	5328.8	5673.2	5838.0	5845.0	5288.7
35°	4014.5	4046.7	4230.7	4535.1	4983.4	5416.8	5745.6	6447.7	6804.5	6795.7	6128.6
37.5°	3815.6	3841.7	4053.7	4453.2	5029.6	5627.0	6214.0	7307.6	7637.3	7608.5	6797.5
40°	3635.0	3665.6	3876.7	4310.1	5014.0	5866.0	6734.6	8051.5	8301.9	8261.7	7427.1
42.5°	3418.8	3441.5	3650.7	4110.4	4969.4	6030.0	7203.0	8730.9	8918.4	8810.3	7919.9
45°	3204.2	3220.8	3449.3	3848.7	4829.0	6138.1	7670.5	9348.4	9435.7	9349.3	8464.0
47.5°	2932.1	2948.7	3213.0	3620.2	4587.5	6134.6	8107.4	9869.2	9951.1	9836.0	8874.0
50°	2254.5	2271.0	2812.7	3386.5	4250.8	6051.7	8457.2	10351.4	10453.5	10285.2	9336.2
52.5°	2048.7	2056.5	2203.9	3096.1	3820.8	5820.7	8711.7	10783.1	10907.9	10724.7	9737.4
55°	1954.5	1947.5	2007.7	2493.4	3489.4	5452.5	8905.4	11192.1	11319.4	11135.4	10095.0
57.5°	1806.2	1817.5	1919.6	2135.0	3189.5	4781.1	8836.5	11575.9	11563.6	11422.3	10446.5
60°	1699.8	1705.1	1806.2	1959.6	2830.0	4017.0	8545.2	11788.6	11847.1	11658.7	10749.9
62.5°	1589.0	1596.0	1682.4	1821.9	2550.1	3456.2	8077.7	11776.4	11998.0	11882.0	11024.7
63°	1575.1	1573.3	1651.9	1803.6	2507.4	3361.3	7905.9	11738.1	12067.8	11936.9	11037.8
65°	1465.2	1472.2	1555.9	1695.4	2324.3	3100.4	7420.1	11479.0	11970.1	11981.4	11158.1
67.5°	1305.6	1316.1	1387.6	1516.6	1974.5	2719.3	6145.1	11329.9	11722.4	11791.3	11006.3
70°	1117.2	1128.6	1203.5	1323.1	1673.6	2321.6	4567.4	10682.8	11140.7	11263.7	10320.9
72.5°	885.2	900.1	995.1	1115.4	1372.8	1907.4	3214.7	9625.8	10425.5	10450.8	9364.1
75°	577.3	588.7	726.5	894.8	1110.2	1510.6	2123.6	7369.6	9208.0	9363.3	8026.3
77.5°	341.0	356.7	424.7	492.7	702.9	1138.1	1379.7	3924.6	6782.6	7277.1	6333.4
80°	92.4	102.1	321.8	375.8	449.2	491.1	849.5	2166.4	3139.7	3986.5	4265.7
82.5°	48.0	59.4	179.7	241.6	257.2	249.4	392.5	1007.3	1534.9	1798.3	2142.0
85°	21.8	26.2	59.4	88.1	71.5	68.0	130.8	525.9	858.2	996.0	1077.1
87.5°	7.8	9.6	20.9	32.2	19.2	14.8	18.3	158.8	331.4	418.7	380.3
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°	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3	3033.3
2.5°	2992.3	3018.5	2983.6	2943.4	2915.6	2899.9	2886.7	2857.2	2865.9	2877.2	2875.4
5°	3021.0	3024.5	2943.4	2892.0	2831.0	2796.1	2783.0	2732.4	2737.6	2742.9	2742.0
7.5°	3039.4	3007.1	2908.6	2833.5	2769.0	2715.8	2666.1	2615.5	2606.0	2615.5	2623.4
10°	3044.7	2995.8	2884.2	2779.5	2692.3	2616.4	2572.8	2493.4	2479.5	2498.7	2510.9
12.5°	3092.6	3011.5	2866.7	2743.8	2641.7	2541.4	2465.5	2377.5	2335.6	2351.3	2366.1
15°	3151.9	3039.4	2851.9	2698.4	2562.3	2449.9	2350.4	2255.4	2203.0	2224.0	2234.4
17.5°	3223.4	3090.9	2851.0	2624.3	2477.7	2341.6	2241.4	2138.5	2041.7	2075.7	2064.4
20°	3302.8	3135.3	2845.8	2555.3	2374.0	2210.0	2076.6	2008.5	1908.2	1909.1	1894.3
22.5°	3397.0	3196.3	2839.7	2489.9	2247.5	2081.7	1915.2	1836.7	1754.8	1724.2	1714.6
25°	3545.3	3294.1	2850.2	2445.5	2138.5	1914.4	1718.9	1617.8	1583.0	1544.6	1528.0
27.5°	3746.7	3430.2	2872.9	2388.8	2001.5	1737.3	1497.4	1399.8	1375.3	1346.6	1327.4
30°	4042.4	3624.6	2899.9	2324.3	1842.8	1497.4	1276.9	1206.2	1166.9	1152.1	1140.8
32.5°	4793.3	4171.4	2920.8	2239.7	1678.0	1266.4	1106.7	1036.1	981.1	955.0	957.6
35°	5563.3	4834.2	3069.0	2138.5	1475.7	1073.6	957.6	870.4	803.2	785.8	773.6
37.5°	6166.9	5379.3	3408.3	2036.5	1282.1	962.0	811.0	735.3	678.5	674.2	701.2
40°	6736.4	5879.9	3688.2	1918.7	1081.4	834.7	662.9	632.3	607.0	613.2	649.7
42.5°	7209.1	6329.1	3918.6	1749.5	919.3	690.7	566.0	598.3	606.2	614.0	616.6
45°	7672.2	6683.2	4043.2	1528.0	776.2	574.8	555.6	615.7	628.8	640.2	626.2
47.5°	8150.1	7082.7	4041.5	1255.9	668.9	561.6	577.3	615.7	638.4	652.4	648.0
50°	8532.1	7379.1	3990.0	988.1	641.9	592.2	588.7	590.5	627.0	636.7	637.5
52.5°	8894.0	7659.2	3778.1	812.0	679.4	627.0	601.8	580.8	596.5	619.2	594.0
55°	9247.3	7902.4	3402.2	764.0	697.7	656.7	628.8	592.2	576.5	571.3	580.0
57.5°	9537.7	8104.7	2960.9	742.1	702.9	659.4	675.1	591.3	573.8	533.8	529.4
60°	9821.1	8296.7	2526.6	711.6	698.6	654.1	629.7	606.2	564.3	504.1	482.3
62.5°	9997.3	8355.9	2072.2	685.5	679.4	648.0	614.0	602.7	554.6	508.4	502.4
63°	9972.0	8314.1	1992.8	681.1	675.1	643.7	614.8	598.3	550.3	513.7	511.1
65°	10033.0	8074.2	1642.2	654.1	656.7	631.4	601.8	572.1	511.1	484.9	480.6
67.5°	9743.6	7636.5	1185.3	604.4	628.8	612.2	575.6	521.6	464.9	430.8	429.0
70°	8983.9	6807.0	814.5	515.4	584.3	585.2	562.5	492.7	430.8	392.5	397.7
72.5°	7910.2	5947.9	525.1	401.2	502.4	538.1	525.1	465.7	384.6	314.8	309.6
75°	6758.2	4850.8	387.2	323.6	370.6	478.8	458.7	379.3	322.7	278.2	274.7
77.5°	5072.4	3507.7	342.8	276.4	275.6	324.4	377.6	373.3	382.8	460.5	450.0
80°	3511.2	2475.1	273.0	224.2	168.3	205.0	318.3	395.1	492.7	286.1	268.6
82.5°	2032.0	1344.0	88.9	70.7	102.9	132.6	233.7	491.1	326.1	171.0	153.5
85°	956.8	510.2	38.4	21.8	30.5	44.5	131.7	415.2	208.5	85.4	15.7
87.5°	296.6	140.4	8.7	7.0	7.8	9.6	55.9	218.0	143.0	9.6	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)