

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: P157407

Luminaire Tested: **VST-F10-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157407
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F10-LED-E-U-5MQ-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (70) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27096.8 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 258.7
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

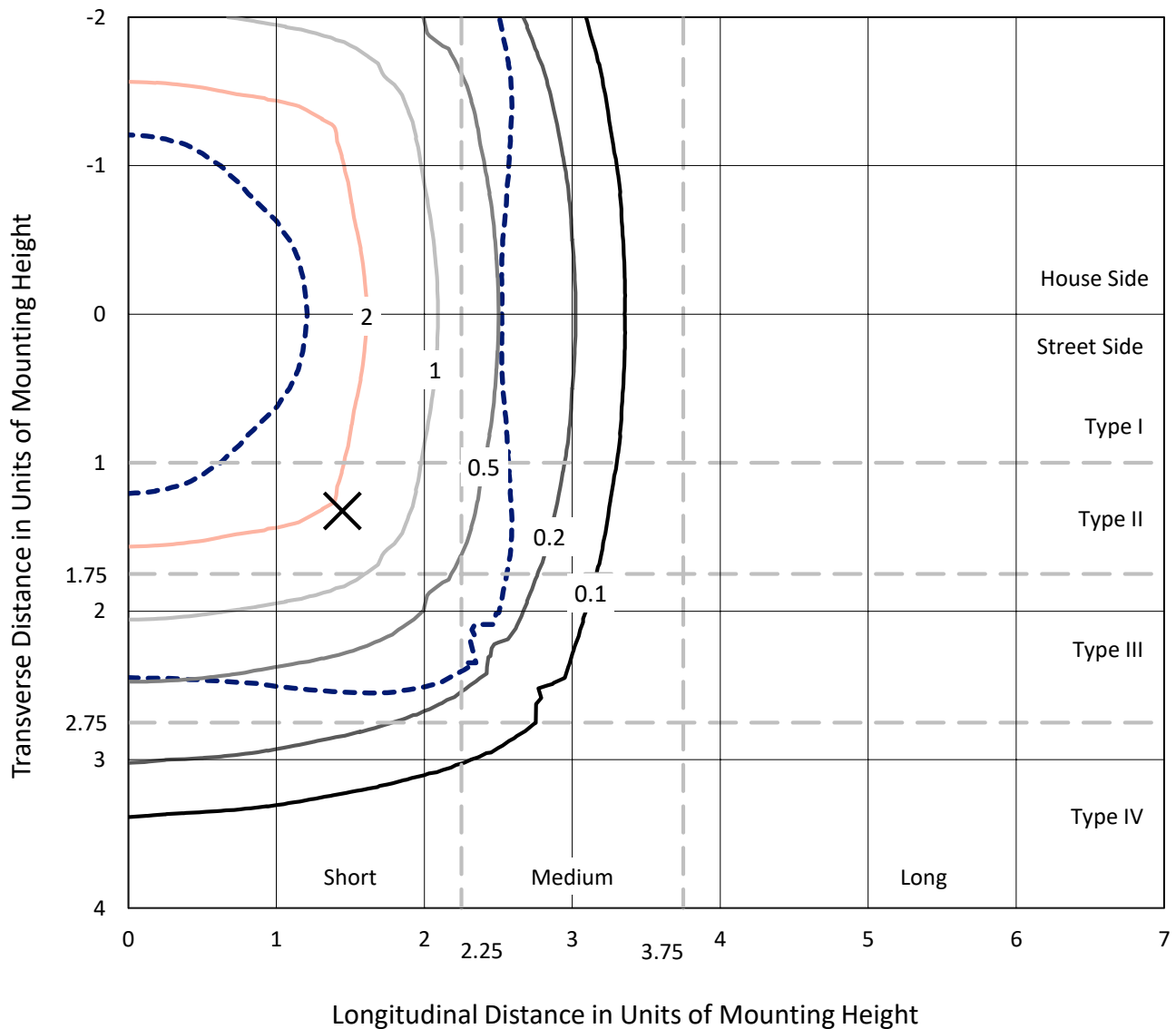


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

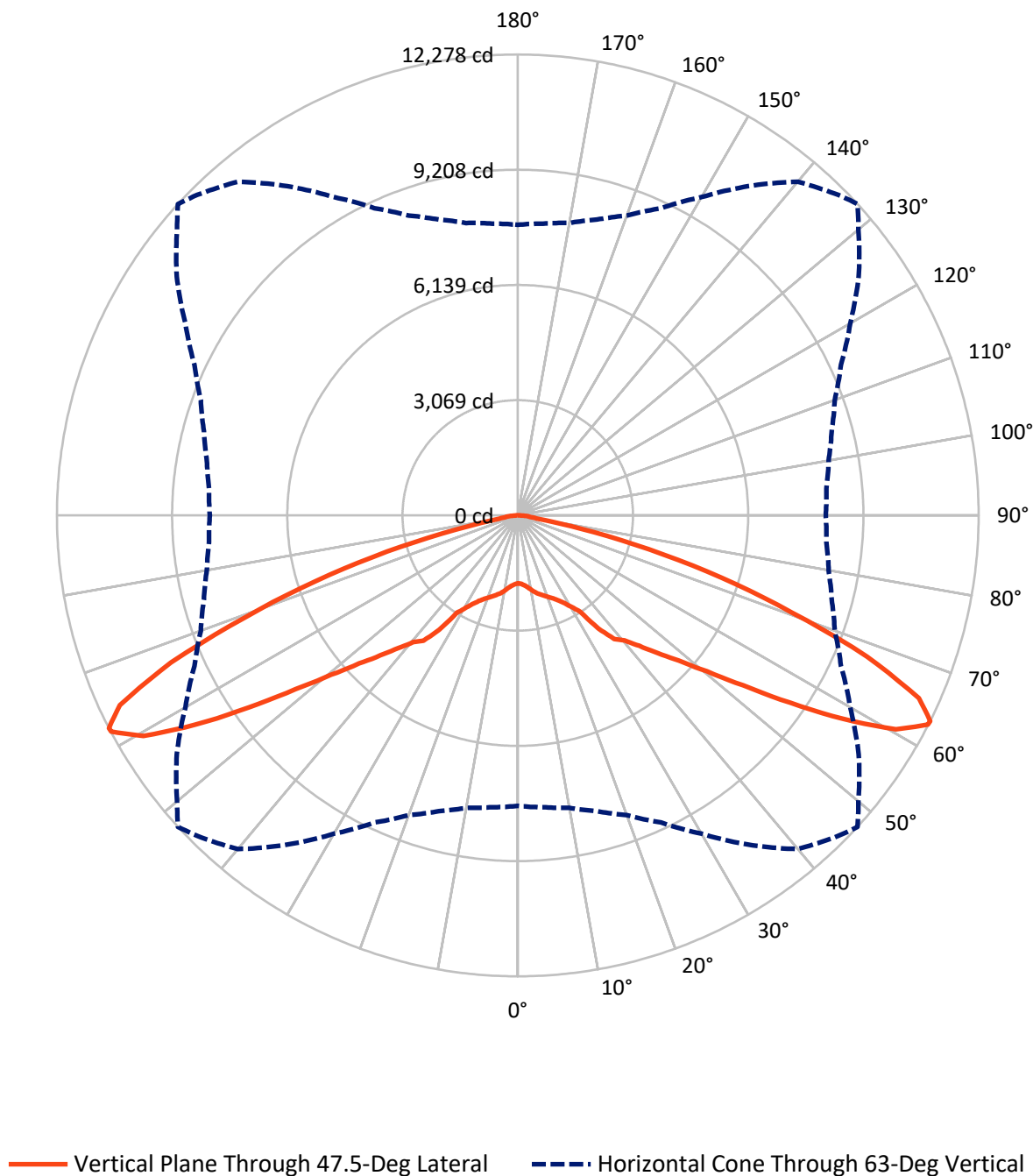


Based on 25 foot mounting height. Maximum calculated value = 3.2 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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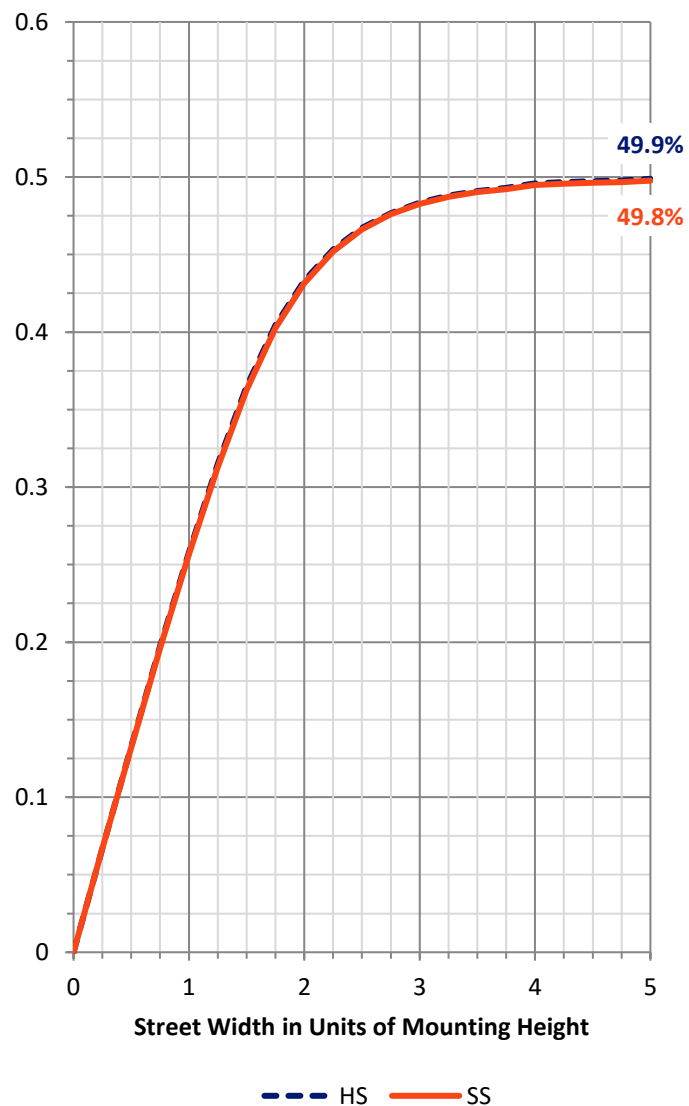
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13548.4	0.0	13548.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	13548.4	0.0	13548.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	27096.8	0.0	27096.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	181.7	0.7
10°-20°	617.5	2.3
20°-30°	1181.1	4.4
30°-40°	2259.3	8.3
40°-50°	3909.4	14.4
50°-60°	7021.1	25.9
60°-70°	8537.8	31.5
70°-80°	3083.4	11.4
80°-90°	305.4	1.1
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°	27096.8	100.0
0°-180°	27096.8	100.0

Coefficient of Utilization



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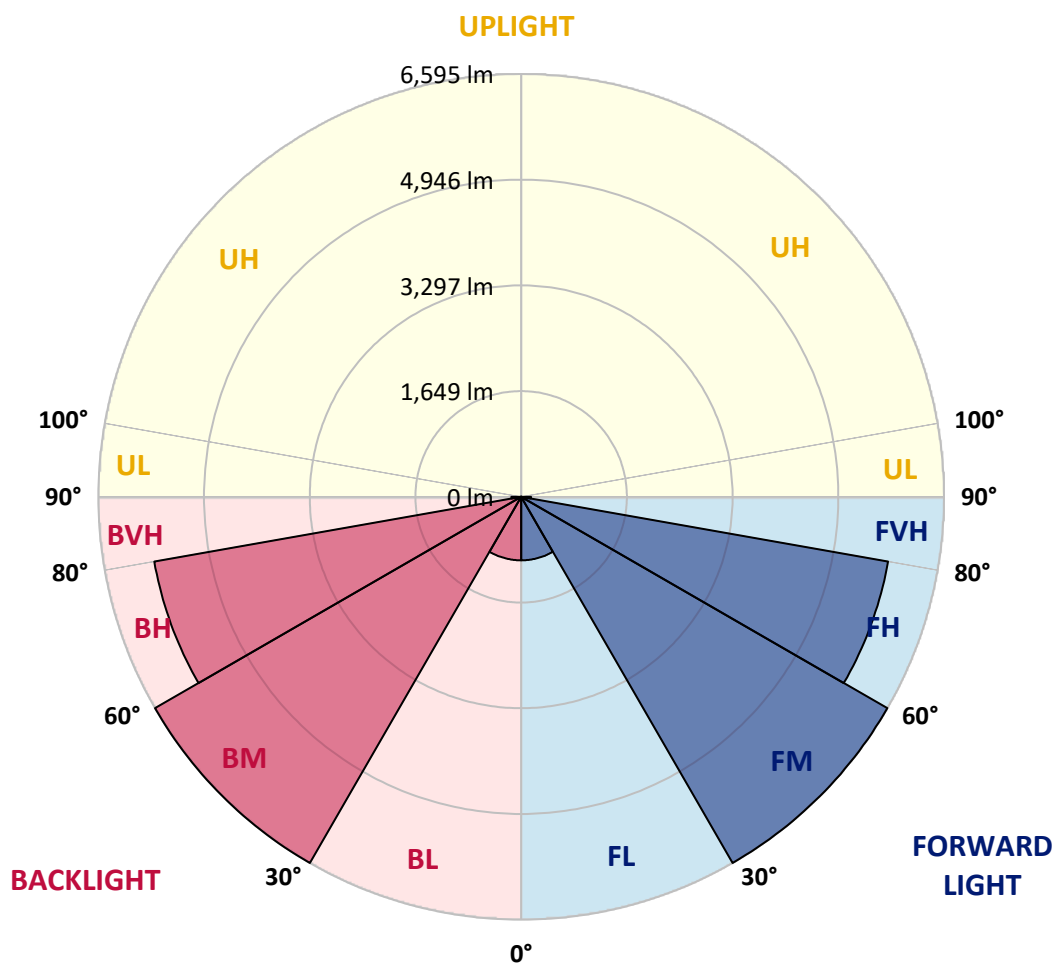
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	990.1	3.7			
FM	(30°-60°)	6595.0	24.3			
FH	(60°-80°)	5810.6	21.4			G3/7500
FVH	(80°-90°)	152.7	0.6			G2/225
BL	(0°-30°)	990.1	3.7	B2/1000		
BM	(30°-60°)	6595.0	24.3	B4/8500		
BH	(60°-80°)	5810.6	21.4	B5		G3/7500
BVH	(80°-90°)	152.7	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4
2.5°	1821.2	1817.8	1819.5	1821.2	1819.5	1817.8	1817.8	1817.8	1821.2	1817.8	1826.3
5°	1856.8	1853.4	1855.1	1855.1	1855.1	1851.7	1851.7	1851.7	1850.0	1851.7	1870.3
7.5°	1924.6	1919.5	1917.8	1921.2	1917.8	1916.1	1914.4	1914.4	1911.0	1911.0	1934.7
10°	2005.9	1999.1	2002.5	2004.2	1999.1	1995.7	1995.7	1995.7	1990.6	1988.9	2019.4
12.5°	2095.7	2092.3	2092.3	2088.9	2087.2	2083.8	2082.1	2083.8	2077.0	2077.0	2107.5
15°	2182.1	2175.3	2177.0	2171.9	2168.5	2165.1	2163.4	2161.7	2158.3	2158.3	2177.0
17.5°	2261.7	2256.6	2254.9	2249.8	2244.8	2239.7	2236.3	2234.6	2229.5	2229.5	2246.4
20°	2344.7	2339.6	2336.2	2327.8	2319.3	2314.2	2307.4	2304.0	2297.3	2299.0	2317.6
22.5°	2439.6	2431.1	2424.3	2417.6	2402.3	2392.1	2383.7	2376.9	2373.5	2373.5	2398.9
25°	2566.6	2561.6	2551.4	2529.4	2510.7	2495.5	2481.9	2475.2	2468.4	2465.0	2504.0
27.5°	2722.5	2717.4	2703.9	2681.8	2656.4	2631.0	2615.8	2603.9	2595.4	2590.4	2646.3
30°	2929.2	2920.7	2908.9	2873.3	2851.3	2812.3	2795.3	2778.4	2759.8	2764.9	2830.9
32.5°	3334.1	3322.2	3285.0	3246.0	3178.2	3125.7	3071.5	3030.8	2991.9	2986.8	3057.9
35°	3701.7	3696.6	3689.9	3662.8	3637.3	3605.2	3579.7	3537.4	3501.8	3493.3	3693.2
37.5°	3899.9	3911.8	3901.6	3898.2	3898.2	3913.5	3960.9	4008.4	4042.2	4062.6	4174.4
40°	4203.2	4203.2	4191.3	4184.6	4171.0	4191.3	4211.7	4247.2	4262.5	4264.2	4377.7
42.5°	4547.1	4548.8	4536.9	4516.6	4509.8	4528.5	4555.6	4589.5	4609.8	4614.9	4747.0
45°	4930.0	4924.9	4914.7	4908.0	4913.0	4930.0	4962.2	5028.2	5058.7	5082.5	5226.5
47.5°	5345.0	5378.9	5350.1	5355.2	5355.2	5407.7	5480.6	5534.8	5583.9	5629.7	5782.1
50°	5888.9	5894.0	5899.0	5914.3	5924.4	5993.9	6085.4	6149.8	6220.9	6280.2	6529.3
52.5°	6615.7	6605.5	6630.9	6647.8	6705.5	6742.7	6895.2	6976.5	7074.8	7151.0	7515.3
55°	7484.8	7479.7	7516.9	7530.5	7606.7	7698.2	7867.6	8045.5	8213.2	8306.4	8804.5
57.5°	8108.2	8121.8	8186.1	8275.9	8425.0	8619.8	8872.3	9265.3	9583.8	9685.5	10234.4
60°	8245.4	8289.5	8386.0	8565.6	8821.4	9184.0	9680.4	10281.8	10864.6	11059.4	11574.4
62.5°	7860.9	7911.7	8054.0	8269.2	8602.9	9139.9	9856.6	10705.3	11571.1	12004.8	12264.0
63°	7738.9	7801.6	7908.3	8157.3	8496.2	9026.4	9788.8	10703.6	11601.5	12074.2	12277.5
65°	7166.3	7178.1	7337.4	7586.4	7967.6	8518.2	9287.3	10344.5	11340.6	11886.2	11745.6
67.5°	6166.7	6215.8	6349.7	6600.4	6971.4	7544.1	8379.3	9356.8	10232.7	10668.1	10039.5
70°	4982.5	4979.1	5145.1	5346.7	5673.7	6176.9	6908.7	7791.4	8486.0	8802.8	7750.7
72.5°	3559.4	3471.3	3593.3	3816.9	4084.6	4486.1	5065.5	5751.6	6373.4	6647.8	5666.9
75°	1621.3	1597.6	1706.0	1927.9	2199.0	2556.5	3032.5	3625.5	4221.8	4543.7	3610.2
77.5°	545.5	552.3	594.6	674.3	820.0	999.5	1296.0	1675.5	2158.3	2476.8	1694.2
80°	365.9	376.1	389.7	401.5	418.5	445.6	509.9	608.2	757.3	916.5	535.4
82.5°	299.9	311.7	342.2	355.8	365.9	374.4	379.5	386.3	386.3	389.7	338.8
85°	215.2	235.5	276.1	301.6	311.7	318.5	327.0	337.1	321.9	308.3	262.6
87.5°	74.5	101.6	149.1	164.3	176.2	177.9	189.7	210.1	199.9	162.6	79.6
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4	1809.4
2.5°	1817.8	1816.1	1817.8	1819.5	1819.5	1819.5	1821.2	1822.9	1822.9
5°	1851.7	1853.4	1851.7	1853.4	1853.4	1855.1	1855.1	1858.5	1858.5
7.5°	1909.3	1912.7	1911.0	1914.4	1914.4	1917.8	1916.1	1921.2	1921.2
10°	1987.2	1990.6	1994.0	1995.7	1994.0	1997.4	2000.8	2002.5	2000.8
12.5°	2075.3	2077.0	2075.3	2078.7	2078.7	2082.1	2082.1	2087.2	2087.2
15°	2156.7	2155.0	2153.3	2158.3	2161.7	2163.4	2166.8	2171.9	2166.8
17.5°	2229.5	2231.2	2227.8	2232.9	2239.7	2244.8	2248.1	2254.9	2253.2
20°	2302.4	2299.0	2302.4	2310.8	2317.6	2324.4	2331.2	2341.3	2339.6
22.5°	2373.5	2376.9	2385.4	2392.1	2404.0	2414.2	2422.6	2436.2	2441.3
25°	2473.5	2473.5	2487.0	2495.5	2512.4	2526.0	2544.6	2559.9	2568.3
27.5°	2600.5	2600.5	2615.8	2634.4	2659.8	2683.5	2703.9	2724.2	2720.8
30°	2773.3	2781.8	2795.3	2819.1	2853.0	2881.8	2908.9	2929.2	2930.9
32.5°	3000.3	3010.5	3051.2	3112.2	3183.3	3237.5	3278.2	3327.3	3334.1
35°	3515.4	3540.8	3593.3	3642.4	3671.2	3703.4	3723.7	3725.4	3728.8
37.5°	4057.5	4013.4	3972.8	3935.5	3918.6	3915.2	3915.2	3922.0	3925.3
40°	4255.7	4233.7	4215.0	4191.3	4198.1	4196.4	4208.3	4218.4	4225.2
42.5°	4594.5	4577.6	4560.7	4530.2	4547.1	4542.0	4559.0	4574.2	4582.7
45°	5067.2	5014.7	4977.4	4928.3	4945.2	4935.1	4935.1	4953.7	4957.1
47.5°	5589.0	5528.0	5451.8	5390.8	5370.5	5351.8	5368.8	5368.8	5350.1
50°	6214.1	6141.3	6051.5	5953.2	5919.4	5900.7	5907.5	5916.0	5863.5
52.5°	7062.9	6981.6	6854.5	6705.5	6673.3	6658.0	6654.6	6642.8	6629.2
55°	8213.2	8060.8	7904.9	7708.4	7649.1	7632.2	7633.8	7620.3	7652.5
57.5°	9570.3	9346.6	8987.5	8748.6	8606.3	8552.1	8502.9	8482.6	8484.3
60°	10913.7	10458.0	9920.9	9504.2	9206.0	9016.3	8867.2	8784.2	8760.5
62.5°	11779.4	11062.8	10256.4	9580.4	9090.8	8777.4	8541.9	8392.8	8345.4
63°	11847.2	11088.2	10225.9	9500.8	8985.8	8657.1	8409.8	8255.6	8204.8
65°	11699.8	10832.4	9827.8	8963.8	8399.6	8035.4	7767.7	7622.0	7583.0
67.5°	10554.6	9832.9	8809.6	7916.8	7347.5	6978.2	6671.6	6532.6	6488.6
70°	8586.0	8091.3	7252.7	6490.3	5960.0	5604.3	5294.2	5179.0	5177.3
72.5°	6364.9	5722.8	5223.1	4664.0	4201.5	3918.6	3649.2	3520.4	3456.1
75°	4210.0	3522.1	2963.1	2492.1	2031.3	1777.2	1473.9	1343.5	1267.2
77.5°	2121.1	1572.2	1126.6	781.0	606.5	498.1	455.7	433.7	432.0
80°	706.5	530.3	455.7	426.9	418.5	420.1	415.1	406.6	396.4
82.5°	391.3	411.7	415.1	403.2	403.2	396.4	389.7	357.5	340.5
85°	335.4	369.3	372.7	365.9	364.2	354.1	342.2	298.2	272.8
87.5°	210.1	242.3	237.2	211.8	233.8	218.5	206.7	133.8	98.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)