

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: P157818

Luminaire Tested: **VST-E08-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157818
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E08-LED-E-U-5XQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21353.7 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U1 - G4

Input Watts (W): 194.5
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

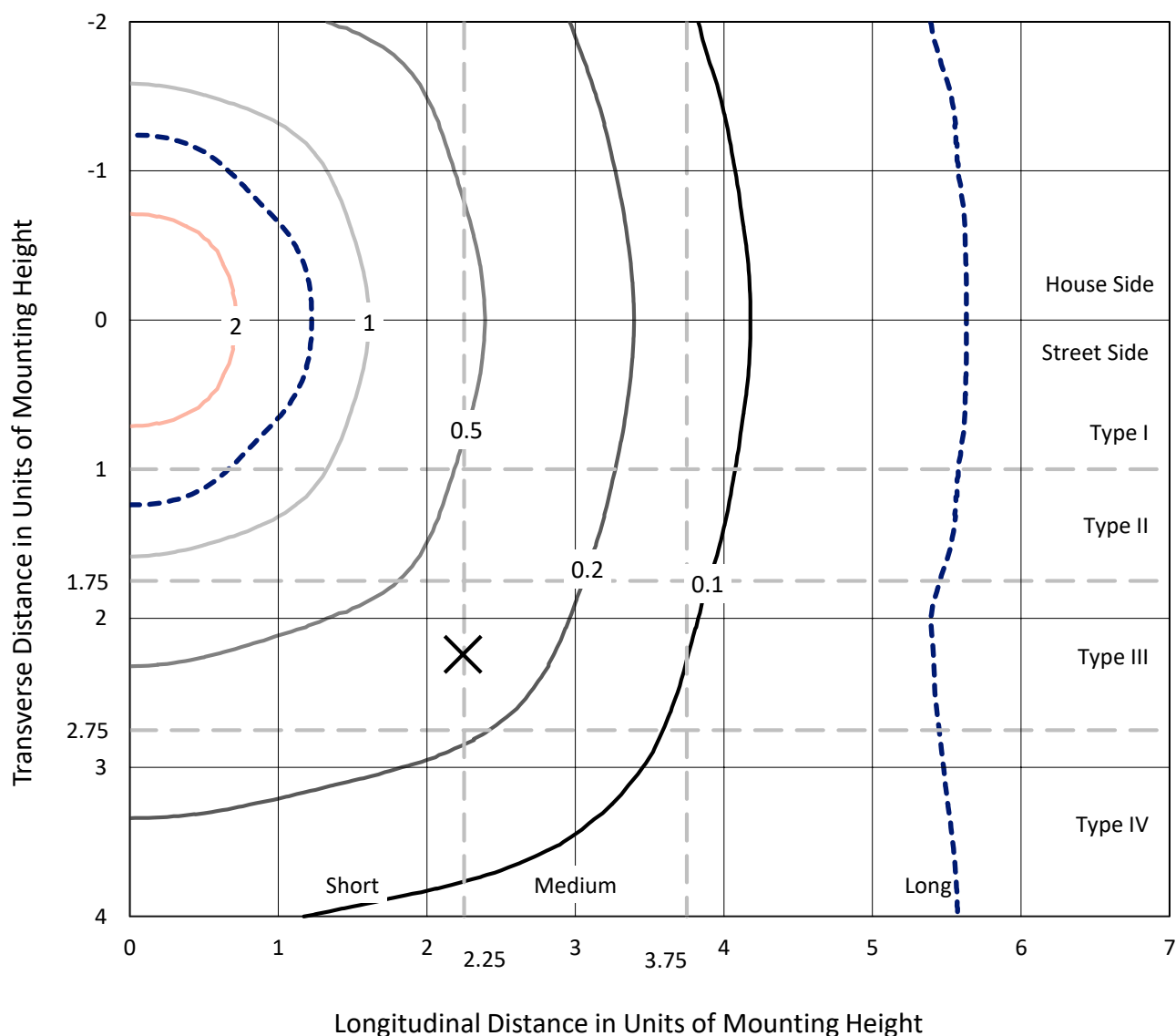


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

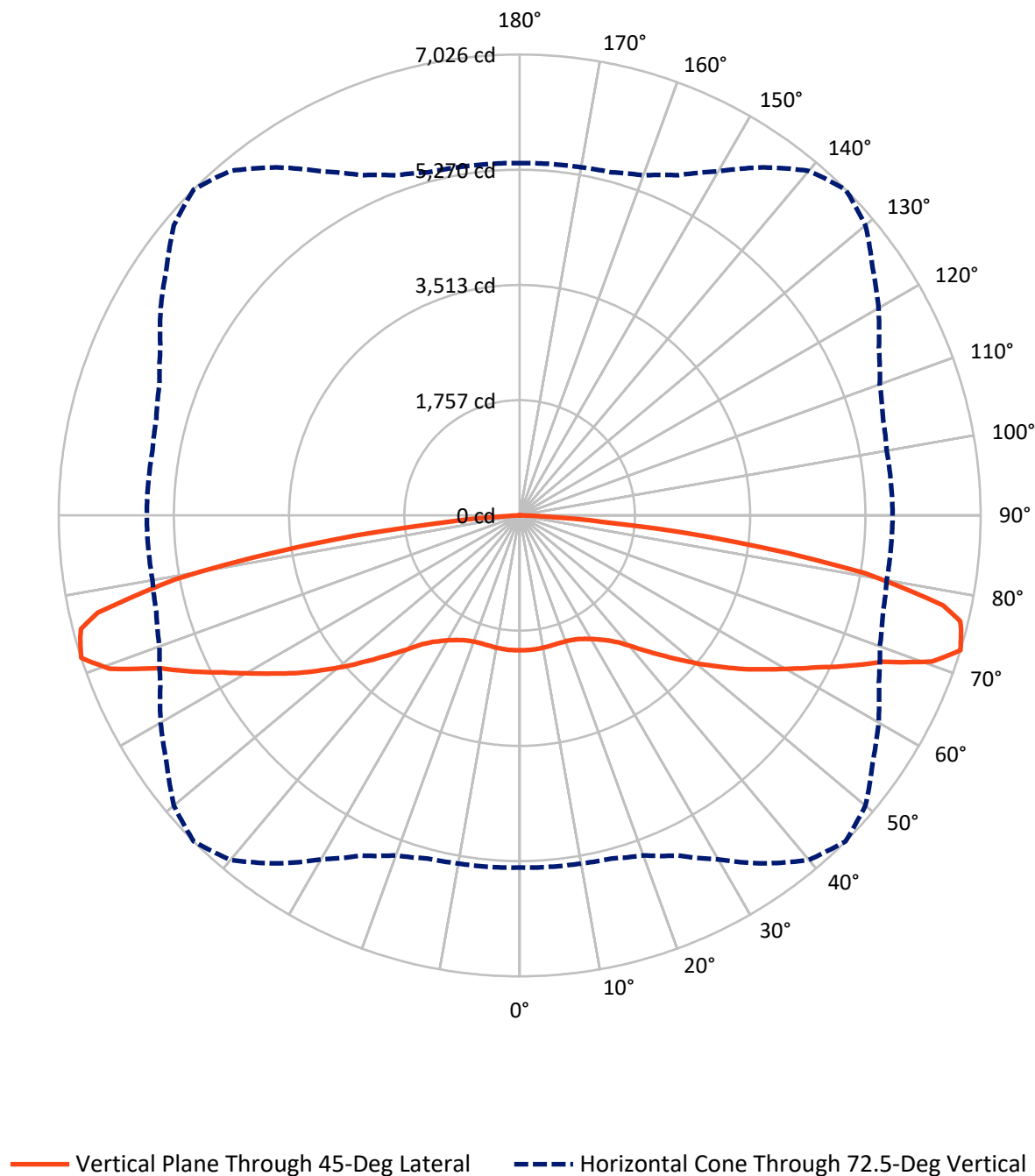


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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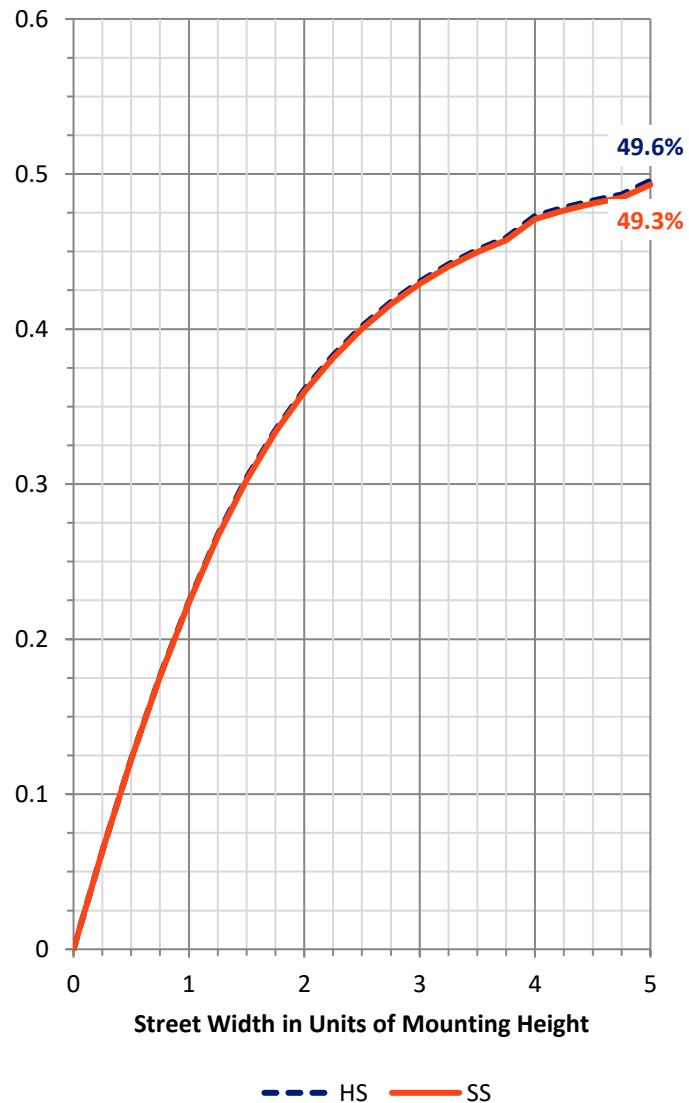
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10671.5	5.3	10676.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10671.5	5.3	10676.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	21343.1	10.6	21353.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.1	0.9
10°-20°	579.2	2.7
20°-30°	968.5	4.5
30°-40°	1472.1	6.9
40°-50°	2331.5	10.9
50°-60°	3566.3	16.7
60°-70°	5104.0	23.9
70°-80°	5840.1	27.3
80°-90°	1285.4	6.0
90°-100°	1.1	0.0
100°-110°	2.2	0.0
110°-120°	1.6	0.0
120°-130°	1.7	0.0
130°-140°	1.6	0.0
140°-150°	1.2	0.0
150°-160°	0.8	0.0
160°-170°	0.3	0.0
170°-180°	0.0	0.0
0°-90°	21343.1	100.0
0°-180°	21353.7	100.0

Coefficient of Utilization



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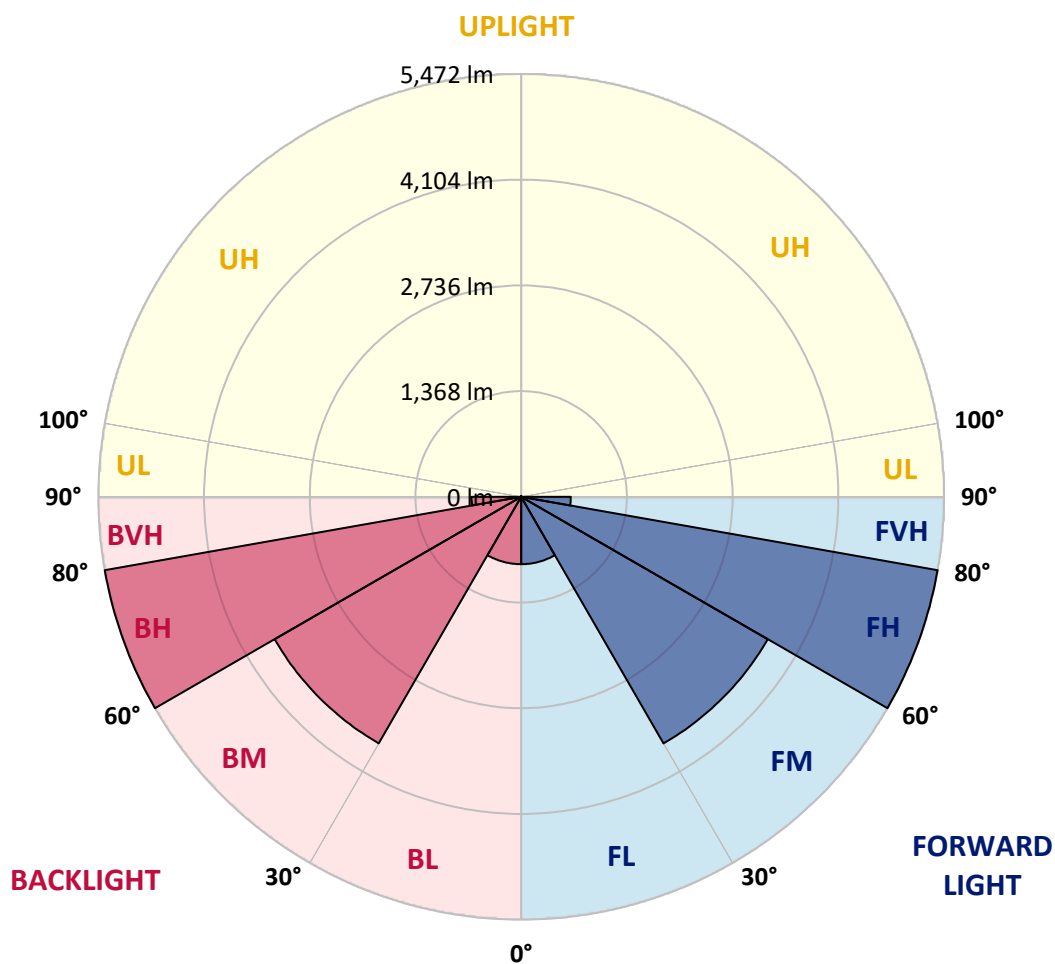
CATALOG NUMBER: VST-E08-LED-E-U-5XQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	871.9	4.1			
FM	(30°-60°)	3684.9	17.3			
FH	(60°-80°)	5472.1	25.6			G3/7500
FVH	(80°-90°)	642.7	3.0			G4/750
BL	(0°-30°)	871.9	4.1	B2/1000		
BM	(30°-60°)	3684.9	17.3	B3/5000		
BH	(60°-80°)	5472.1	25.6	B5		G3/7500
BVH	(80°-90°)	642.7	3.0			G4/750
UL	(90°-100°)	1.1	0.0		U1/10	
UH	(100°-180°)	5.3	0.0		U1/10	

BUG Rating: B5-U1-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3
2.5°	2056.6	2053.9	2055.3	2058.0	2056.6	2056.6	2055.3	2055.3	2058.0	2055.3	2056.6
5°	2058.0	2055.3	2056.6	2058.0	2056.6	2058.0	2056.6	2056.6	2056.6	2055.3	2058.0
7.5°	2052.6	2052.6	2053.9	2053.9	2052.6	2053.9	2053.9	2053.9	2052.6	2052.6	2055.3
10°	2049.9	2048.5	2048.5	2049.9	2048.5	2048.5	2049.9	2049.9	2047.2	2047.2	2049.9
12.5°	2045.8	2044.5	2044.5	2044.5	2043.1	2043.1	2044.5	2044.5	2043.1	2041.8	2045.8
15°	2043.1	2041.8	2041.8	2041.8	2039.1	2040.4	2040.4	2040.4	2039.1	2037.7	2041.8
17.5°	2041.8	2040.4	2040.4	2040.4	2039.1	2039.1	2039.1	2039.1	2037.7	2037.7	2040.4
20°	2044.5	2044.5	2044.5	2044.5	2043.1	2043.1	2043.1	2044.5	2044.5	2044.5	2047.2
22.5°	2051.2	2051.2	2052.6	2053.9	2053.9	2056.6	2058.0	2059.3	2059.3	2060.7	2063.4
25°	2068.8	2068.8	2070.1	2071.5	2075.5	2078.2	2083.6	2086.3	2087.7	2087.7	2089.0
27.5°	2101.2	2102.6	2105.3	2108.0	2113.4	2117.4	2122.8	2128.2	2129.6	2130.9	2132.3
30°	2141.7	2143.1	2148.5	2151.2	2157.9	2166.0	2172.8	2178.2	2182.2	2184.9	2183.6
32.5°	2199.8	2202.5	2209.2	2213.3	2222.7	2230.8	2240.3	2248.4	2252.4	2256.5	2255.1
35°	2280.8	2287.6	2294.3	2298.4	2307.8	2314.6	2326.7	2334.8	2342.9	2340.2	2341.6
37.5°	2401.0	2406.4	2407.7	2410.4	2419.9	2425.3	2438.8	2449.6	2453.7	2456.4	2457.7
40°	2563.0	2563.0	2569.8	2564.4	2576.5	2577.9	2594.1	2608.9	2613.0	2623.8	2615.7
42.5°	2752.1	2750.7	2754.8	2750.7	2750.7	2764.2	2777.7	2804.8	2807.5	2821.0	2812.9
45°	2957.3	2957.3	2953.3	2954.6	2957.3	2972.2	2988.4	3018.1	3031.6	3039.7	3034.3
47.5°	3180.2	3174.8	3173.4	3172.1	3180.2	3196.4	3220.7	3249.0	3282.8	3285.5	3282.8
50°	3405.7	3404.3	3394.9	3403.0	3408.4	3416.5	3462.4	3500.2	3535.3	3556.9	3550.2
52.5°	3643.3	3631.2	3631.2	3631.2	3644.7	3670.3	3710.9	3762.2	3809.4	3832.4	3828.3
55°	3883.7	3879.7	3867.5	3862.1	3879.7	3916.1	3974.2	4036.3	4098.4	4133.5	4120.0
57.5°	4103.8	4097.1	4098.4	4099.8	4120.0	4168.6	4236.2	4318.5	4386.1	4423.9	4414.4
60°	4276.7	4268.6	4283.4	4287.5	4323.9	4405.0	4513.0	4617.0	4706.1	4743.9	4729.0
62.5°	4472.5	4467.1	4476.5	4475.2	4514.3	4604.8	4749.3	4915.4	5050.4	5099.1	5077.4
65°	4788.5	4772.3	4768.2	4753.4	4779.0	4849.2	4993.7	5186.8	5402.9	5527.1	5497.4
67.5°	5166.6	5162.5	5149.0	5140.9	5150.4	5238.1	5377.2	5563.6	5783.7	5955.2	5993.0
70°	5416.4	5421.8	5435.3	5455.6	5533.9	5704.0	5957.9	6240.1	6542.6	6670.9	6647.9
72.5°	5369.1	5377.2	5388.0	5413.7	5516.3	5720.2	6055.1	6476.4	6855.9	7026.1	6880.2
75°	5138.2	5145.0	5169.3	5208.4	5334.0	5581.1	5941.7	6388.7	6780.3	6950.4	6797.8
76°	4924.9	4946.5	4991.0	5036.9	5188.2	5456.9	5841.8	6318.5	6733.0	6905.9	6758.7
77.5°	4441.4	4460.3	4496.8	4576.5	4748.0	5092.3	5542.0	6010.6	6442.7	6598.0	6473.7
80°	3342.2	3358.4	3392.2	3488.0	3636.6	3849.9	4198.3	4656.1	5130.1	5334.0	5253.0
82.5°	1411.2	1430.1	1563.7	1702.8	1866.2	2097.1	2324.0	2729.1	3077.5	3309.8	3185.6
85°	155.3	191.8	236.3	321.4	394.3	525.3	653.6	899.4	1137.0	1281.5	1133.0
87.5°	27.0	31.1	44.6	56.7	63.5	72.9	87.8	122.9	167.4	144.5	147.2
90°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	2.7	2.7	2.7	2.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
95°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
97.5°	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
100°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7
102.5°	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7
105°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
107.5°	1.4	1.4	1.4	1.4	2.7	2.7	1.4	1.4	1.4	2.7	1.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
112.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
115°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
117.5°	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
120°	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
122.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
125°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
127.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
130°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4
132.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
135°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4
137.5°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4
140°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4
142.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
145°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	0.0	1.4
147.5°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	1.4
150°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	0.0	0.0	0.0
152.5°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	0.0	0.0
155°	2.7	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	0.0	1.4
157.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	0.0	0.0	0.0
160°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	0.0	0.0	0.0
162.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	0.0	0.0	0.0
165°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3	2055.3
2.5°	2055.3	2055.3	2058.0	2056.6	2056.6	2058.0	2060.7	2059.3
5°	2056.6	2058.0	2055.3	2056.6	2058.0	2058.0	2059.3	2058.0
7.5°	2053.9	2053.9	2053.9	2055.3	2056.6	2055.3	2056.6	2056.6
10°	2048.5	2049.9	2048.5	2051.2	2052.6	2052.6	2053.9	2053.9
12.5°	2044.5	2044.5	2044.5	2047.2	2048.5	2048.5	2049.9	2048.5
15°	2040.4	2040.4	2039.1	2041.8	2044.5	2044.5	2045.8	2045.8
17.5°	2039.1	2039.1	2037.7	2040.4	2043.1	2043.1	2044.5	2044.5
20°	2043.1	2044.5	2041.8	2044.5	2047.2	2048.5	2048.5	2048.5
22.5°	2059.3	2058.0	2053.9	2055.3	2056.6	2056.6	2056.6	2056.6
25°	2083.6	2080.9	2076.9	2075.5	2074.2	2072.8	2072.8	2072.8
27.5°	2125.5	2121.5	2114.7	2113.4	2112.0	2109.3	2109.3	2109.3
30°	2175.5	2170.1	2162.0	2159.3	2155.2	2152.5	2151.2	2149.8
32.5°	2247.0	2236.2	2226.8	2220.0	2216.0	2207.9	2206.5	2203.8
35°	2329.4	2321.3	2307.8	2303.8	2297.0	2293.0	2291.6	2284.9
37.5°	2442.8	2433.4	2421.2	2418.5	2417.2	2413.1	2413.1	2411.8
40°	2600.8	2591.4	2580.6	2569.8	2572.5	2573.8	2573.8	2568.4
42.5°	2793.9	2779.1	2757.5	2764.2	2760.2	2754.8	2765.6	2758.8
45°	3014.1	2993.8	2977.6	2970.8	2970.8	2964.1	2974.9	2974.9
47.5°	3258.5	3226.1	3196.4	3197.7	3186.9	3189.6	3196.4	3205.8
50°	3516.4	3473.2	3444.8	3431.3	3420.5	3424.6	3436.7	3439.4
52.5°	3783.8	3731.1	3693.3	3673.0	3659.5	3664.9	3674.4	3682.5
55°	4062.0	4003.9	3947.2	3925.6	3909.4	3920.2	3921.5	3932.3
57.5°	4352.3	4272.6	4206.5	4174.0	4157.8	4168.6	4176.7	4187.5
60°	4645.3	4553.5	4475.2	4437.4	4414.4	4429.3	4448.2	4453.6
62.5°	4985.6	4858.7	4770.9	4716.9	4706.1	4720.9	4726.3	4742.6
65°	5388.0	5235.4	5113.9	5047.7	5045.0	5053.1	5065.3	5069.3
67.5°	5847.2	5677.0	5513.6	5447.5	5421.8	5446.1	5458.3	5474.5
70°	6495.4	6261.7	6025.4	5878.2	5816.1	5797.2	5802.6	5820.2
72.5°	6568.3	6317.1	6041.6	5841.8	5732.4	5682.4	5681.1	5683.8
75°	6408.9	6007.9	5813.4	5583.8	5428.5	5347.5	5336.7	5335.4
76°	6329.3	5855.3	5574.4	5392.1	5205.7	5123.4	5111.2	5104.5
77.5°	5993.0	5483.9	5061.2	4950.5	4772.3	4668.3	4689.9	4672.3
80°	4804.7	4299.6	3901.3	3589.3	3598.8	3523.2	3492.1	3482.6
82.5°	2831.8	2417.2	1977.0	1719.0	1473.3	1408.5	1212.6	1168.1
85°	904.8	641.4	388.9	282.2	191.8	160.7	125.6	114.8
87.5°	120.2	94.5	77.0	74.3	67.5	58.1	37.8	27.0
90°	1.4	1.4	1.4	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	1.4	1.4	1.4	1.4	0.0	0.0	0.0	0.0
97.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
100°	2.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4
102.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4
105°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
107.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7
112.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.7
115°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.7
117.5°	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7
120°	1.4	1.4	1.4	1.4	1.4	2.7	2.7	2.7
122.5°	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7
125°	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7
127.5°	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7
130°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7
132.5°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7
135°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7
137.5°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7
140°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7
142.5°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7
145°	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7
147.5°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7
150°	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7
152.5°	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7
155°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7
157.5°	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7
160°	1.4	1.4	1.4	1.4	2.7	2.7	2.7	2.7
162.5°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7
165°	1.4	1.4	1.4	2.7	2.7	2.7	2.7	2.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)