

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: P157827

Luminaire Tested: **VST-F08-LED-E-U-5XQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157827
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-F08-LED-E-U-5XQ-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (56) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21431.7 lumens
Efficiency: N/A
Efficacy: 104.9 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): 204.4
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

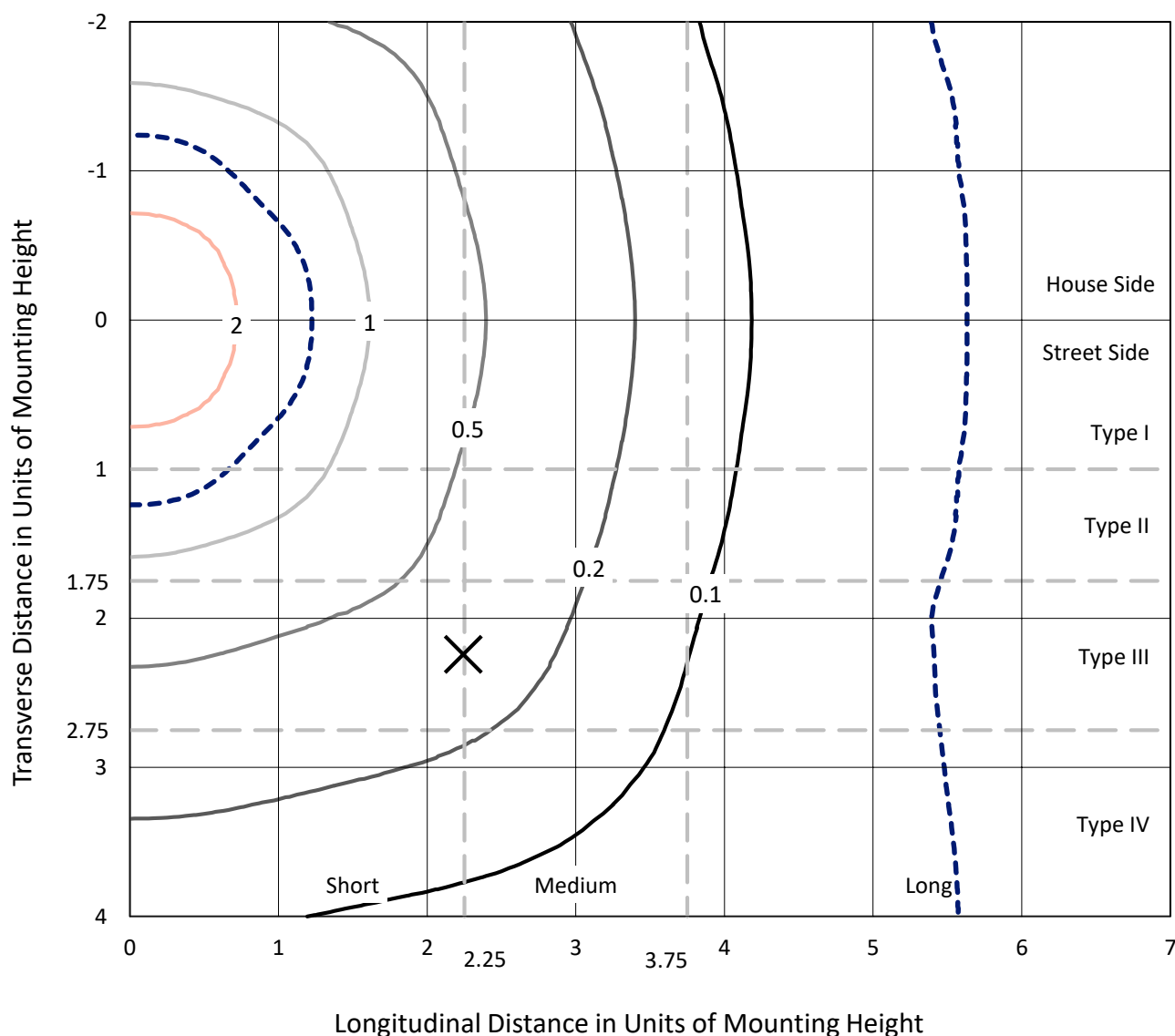


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

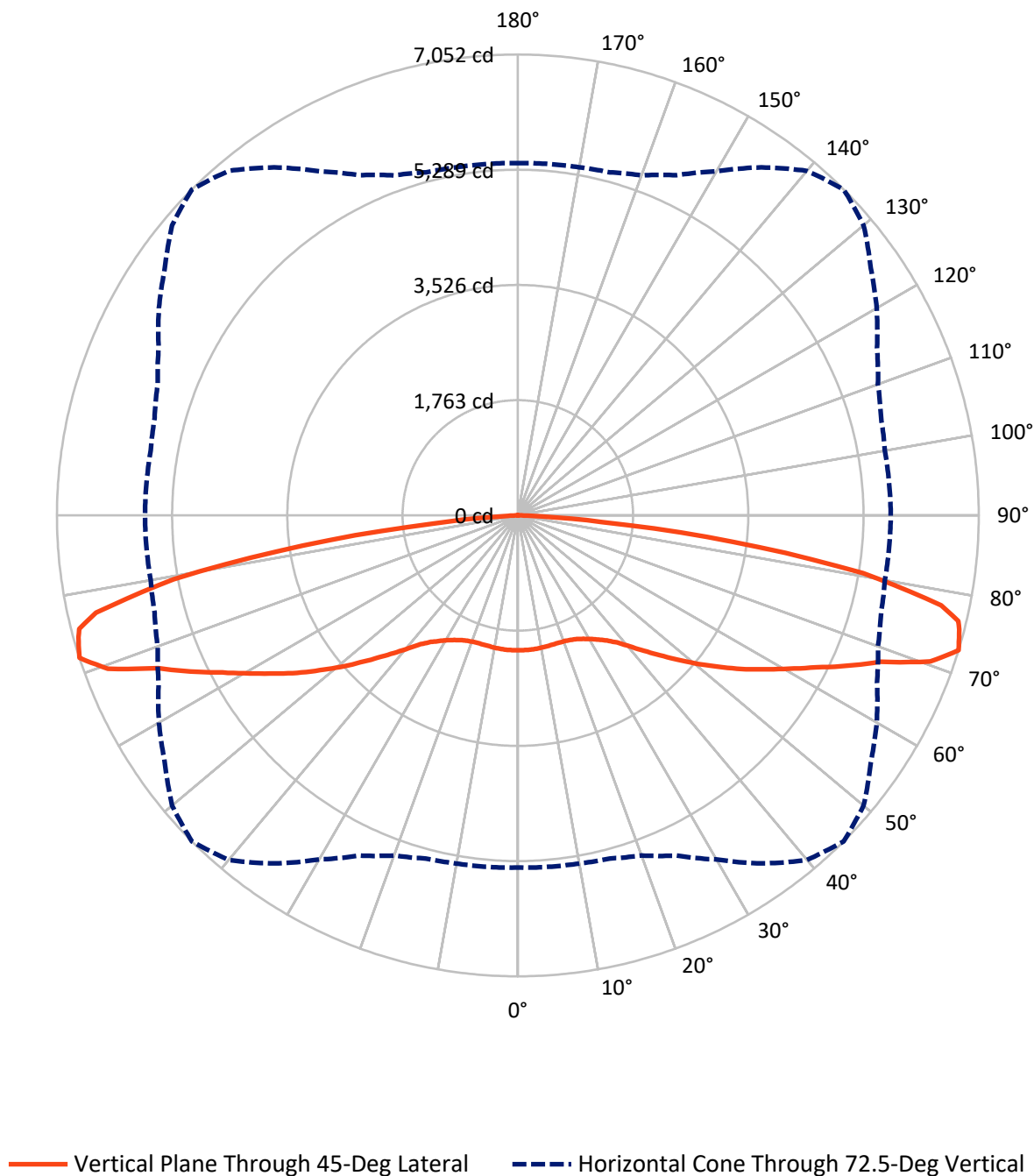


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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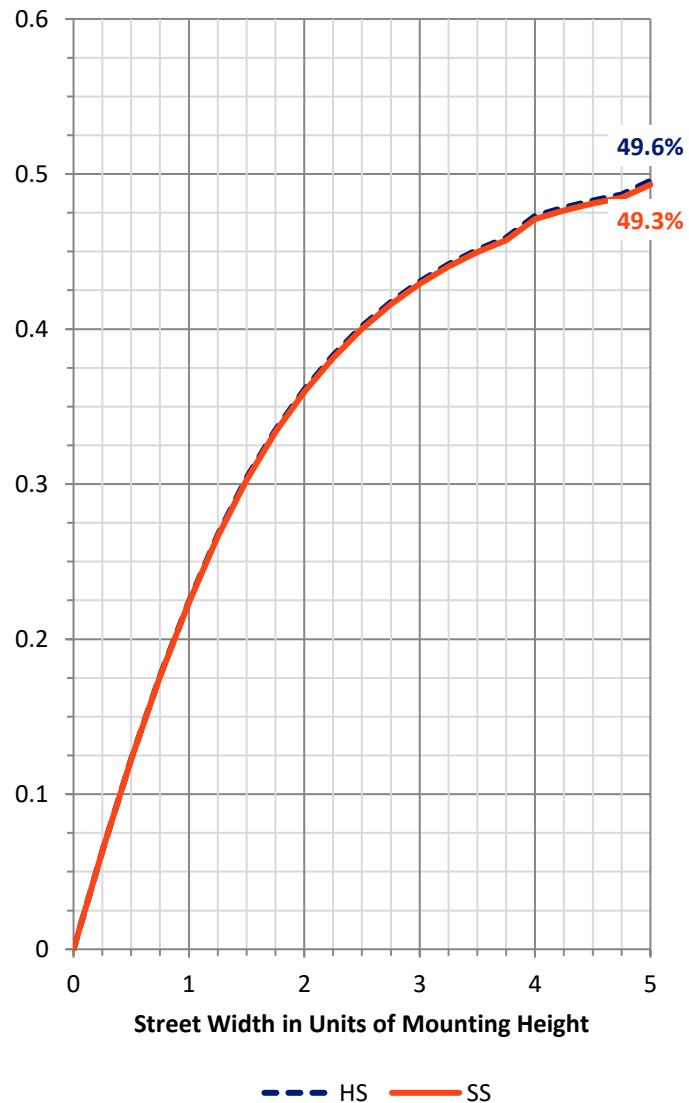
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10710.6	5.3	10715.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	10710.6	5.3	10715.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	21421.1	10.6	21431.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	0.9
10°-20°	581.3	2.7
20°-30°	972.0	4.5
30°-40°	1477.4	6.9
40°-50°	2340.0	10.9
50°-60°	3579.4	16.7
60°-70°	5122.7	23.9
70°-80°	5861.5	27.3
80°-90°	1290.1	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°	21421.1	100.0
0°-180°	21431.7	100.0

Coefficient of Utilization



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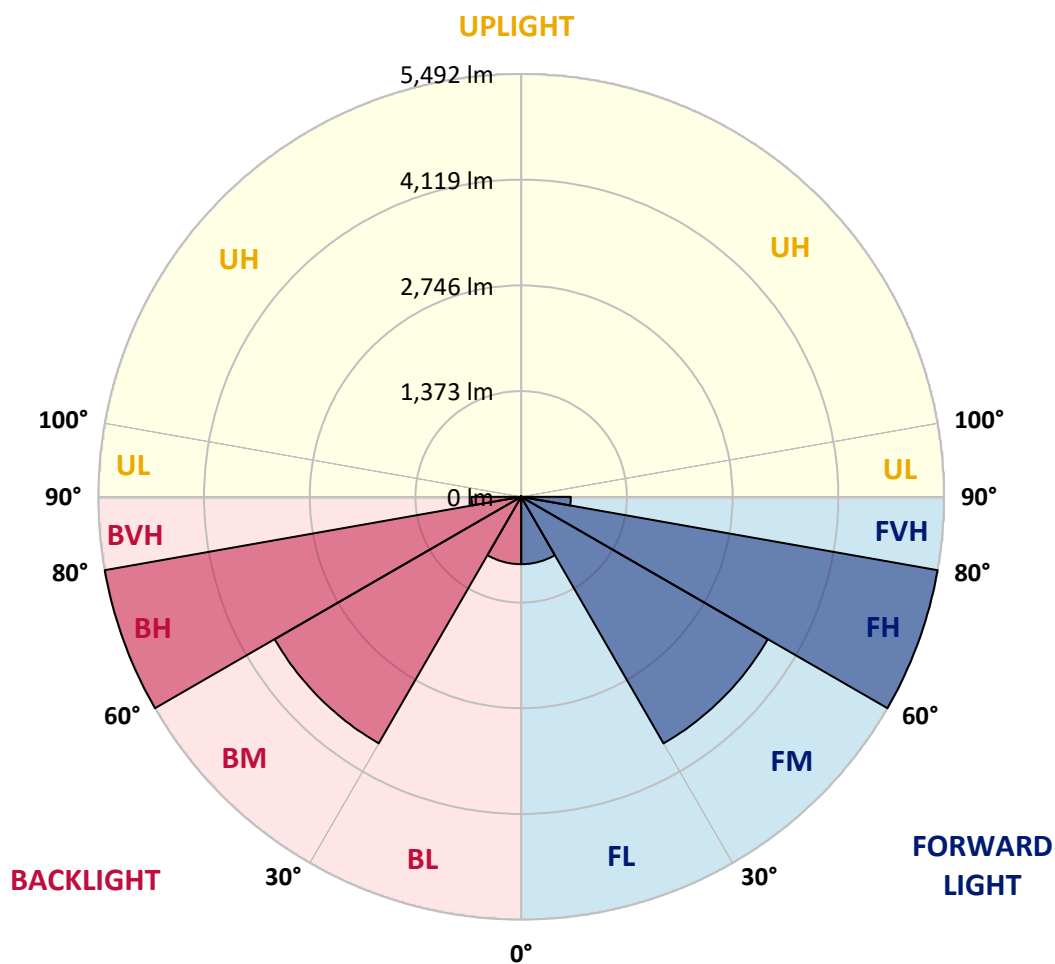
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	875.1	4.1			
FM	(30°-60°)	3698.4	17.3			
FH	(60°-80°)	5492.1	25.6			G3/7500
FVH	(80°-90°)	645.0	3.0			G4/750
BL	(0°-30°)	875.1	4.1	B2/1000		
BM	(30°-60°)	3698.4	17.3	B3/5000		
BH	(60°-80°)	5492.1	25.6	B5		G3/7500
BVH	(80°-90°)	645.0	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°	2062.8	2062.8	2062.8	2062.8	2062.8	2062.8	2062.8	2062.8	2062.8	2062.8	2062.8
2.5°	2064.2	2061.4	2062.8	2065.5	2064.2	2064.2	2062.8	2062.8	2065.5	2062.8	2064.2
5°	2065.5	2062.8	2064.2	2065.5	2064.2	2065.5	2064.2	2064.2	2064.2	2062.8	2065.5
7.5°	2060.1	2060.1	2061.4	2061.4	2060.1	2061.4	2061.4	2061.4	2060.1	2060.1	2062.8
10°	2057.4	2056.0	2056.0	2057.4	2056.0	2056.0	2057.4	2057.4	2054.7	2054.7	2057.4
12.5°	2053.3	2052.0	2052.0	2052.0	2050.6	2050.6	2052.0	2052.0	2050.6	2049.2	2053.3
15°	2050.6	2049.2	2049.2	2049.2	2046.5	2047.9	2047.9	2047.9	2046.5	2045.2	2049.2
17.5°	2049.2	2047.9	2047.9	2047.9	2046.5	2046.5	2046.5	2046.5	2045.2	2045.2	2047.9
20°	2052.0	2052.0	2052.0	2052.0	2050.6	2050.6	2050.6	2052.0	2052.0	2052.0	2054.7
22.5°	2058.7	2058.7	2060.1	2061.4	2061.4	2064.2	2065.5	2066.9	2066.9	2068.2	2070.9
25°	2076.4	2076.4	2077.7	2079.1	2083.1	2085.8	2091.3	2094.0	2095.3	2095.3	2096.7
27.5°	2108.9	2110.2	2112.9	2115.7	2121.1	2125.1	2130.6	2136.0	2137.3	2138.7	2140.1
30°	2149.5	2150.9	2156.3	2159.0	2165.8	2173.9	2180.7	2186.1	2190.2	2192.9	2191.6
32.5°	2207.8	2210.5	2217.3	2221.4	2230.9	2239.0	2248.5	2256.6	2260.7	2264.7	2263.4
35°	2289.1	2295.9	2302.7	2306.8	2316.2	2323.0	2335.2	2343.3	2351.5	2348.8	2350.1
37.5°	2409.8	2415.2	2416.5	2419.2	2428.7	2434.2	2447.7	2458.6	2462.6	2465.3	2466.7
40°	2572.4	2572.4	2579.2	2573.8	2586.0	2587.3	2603.6	2618.5	2622.5	2633.4	2625.3
42.5°	2762.1	2760.8	2764.9	2760.8	2760.8	2774.3	2787.9	2815.0	2817.7	2831.3	2823.1
45°	2968.2	2968.2	2964.1	2965.4	2968.2	2983.1	2999.3	3029.1	3042.7	3050.8	3045.4
47.5°	3191.8	3186.4	3185.0	3183.6	3191.8	3208.0	3232.4	3260.9	3294.8	3297.5	3294.8
50°	3418.1	3416.8	3407.3	3415.4	3420.8	3429.0	3475.0	3513.0	3548.2	3569.9	3563.1
52.5°	3656.7	3644.5	3644.5	3644.5	3658.0	3683.8	3724.4	3775.9	3823.4	3846.4	3842.3
55°	3897.9	3893.8	3881.6	3876.2	3893.8	3930.4	3988.7	4051.1	4113.4	4148.6	4135.1
57.5°	4118.8	4112.0	4113.4	4114.8	4135.1	4183.9	4251.6	4334.3	4402.1	4440.0	4430.5
60°	4292.3	4284.2	4299.1	4303.1	4339.7	4421.1	4529.5	4633.8	4723.3	4761.2	4746.3
62.5°	4488.8	4483.4	4492.9	4491.5	4530.8	4621.6	4766.7	4933.4	5068.9	5117.7	5096.0
65°	4806.0	4789.7	4785.6	4770.7	4796.5	4867.0	5012.0	5205.8	5422.6	5547.3	5517.5
67.5°	5185.5	5181.4	5167.8	5159.7	5169.2	5257.3	5396.9	5583.9	5804.8	5977.0	6014.9
70°	5436.2	5441.6	5455.2	5475.5	5554.1	5724.9	5979.7	6262.9	6566.5	6695.3	6672.2
72.5°	5388.8	5396.9	5407.7	5433.5	5536.5	5741.1	6077.3	6500.1	6881.0	7051.7	6905.4
75°	5157.0	5163.8	5188.2	5227.5	5353.5	5601.5	5963.4	6412.0	6805.1	6975.8	6822.7
76°	4942.9	4964.5	5009.3	5055.3	5207.1	5476.9	5863.1	6341.5	6757.6	6931.1	6783.4
77.5°	4457.7	4476.6	4513.2	4593.2	4765.3	5110.9	5562.2	6032.5	6466.2	6622.1	6497.4
80°	3354.4	3370.7	3404.6	3500.8	3649.9	3864.0	4213.7	4673.1	5148.9	5353.5	5272.2
82.5°	1416.3	1435.3	1569.5	1709.1	1873.1	2104.8	2332.5	2739.1	3088.8	3321.9	3197.2
85°	155.9	192.5	237.2	322.6	395.8	527.2	656.0	902.6	1141.2	1286.2	1137.1
87.5°	27.1	31.2	44.7	56.9	63.7	73.2	88.1	123.3	168.1	145.0	147.7
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°	2062.8	2062.8	2062.8	2062.8	2062.8	2062.8	2062.8	2062.8
2.5°	2062.8	2062.8	2065.5	2064.2	2064.2	2065.5	2068.2	2066.9
5°	2064.2	2065.5	2062.8	2064.2	2065.5	2065.5	2066.9	2065.5
7.5°	2061.4	2061.4	2061.4	2062.8	2064.2	2062.8	2064.2	2064.2
10°	2056.0	2057.4	2056.0	2058.7	2060.1	2060.1	2061.4	2061.4
12.5°	2052.0	2052.0	2052.0	2054.7	2056.0	2056.0	2057.4	2056.0
15°	2047.9	2047.9	2046.5	2049.2	2052.0	2052.0	2053.3	2053.3
17.5°	2046.5	2046.5	2045.2	2047.9	2050.6	2050.6	2052.0	2052.0
20°	2050.6	2052.0	2049.2	2052.0	2054.7	2056.0	2056.0	2056.0
22.5°	2066.9	2065.5	2061.4	2062.8	2064.2	2064.2	2064.2	2064.2
25°	2091.3	2088.5	2084.5	2083.1	2081.8	2080.4	2080.4	2080.4
27.5°	2133.3	2129.2	2122.4	2121.1	2119.7	2117.0	2117.0	2117.0
30°	2183.4	2178.0	2169.9	2167.2	2163.1	2160.4	2159.0	2157.7
32.5°	2255.3	2244.4	2234.9	2228.1	2224.1	2215.9	2214.6	2211.9
35°	2337.9	2329.8	2316.2	2312.2	2305.4	2301.3	2300.0	2293.2
37.5°	2451.8	2442.3	2430.1	2427.4	2426.0	2422.0	2422.0	2420.6
40°	2610.3	2600.9	2590.0	2579.2	2581.9	2583.2	2583.2	2577.8
42.5°	2804.2	2789.3	2767.6	2774.3	2770.3	2764.9	2775.7	2768.9
45°	3025.1	3004.7	2988.5	2981.7	2981.7	2974.9	2985.8	2985.8
47.5°	3270.4	3237.9	3208.0	3209.4	3198.6	3201.3	3208.0	3217.5
50°	3529.3	3485.9	3457.4	3443.9	3433.0	3437.1	3449.3	3452.0
52.5°	3797.6	3744.8	3706.8	3686.5	3672.9	3678.3	3687.8	3696.0
55°	4076.8	4018.5	3961.6	3939.9	3923.7	3934.5	3935.9	3946.7
57.5°	4368.2	4288.2	4221.8	4189.3	4173.0	4183.9	4192.0	4202.9
60°	4662.3	4570.1	4491.5	4453.6	4430.5	4445.5	4464.4	4469.8
62.5°	5003.8	4876.4	4788.3	4734.1	4723.3	4738.2	4743.6	4759.9
65°	5407.7	5254.6	5132.6	5066.2	5063.5	5071.6	5083.8	5087.9
67.5°	5868.5	5697.8	5533.8	5467.4	5441.6	5466.0	5478.2	5494.5
70°	6519.1	6284.6	6047.4	5899.7	5837.4	5818.4	5823.8	5841.4
72.5°	6592.3	6340.2	6063.7	5863.1	5753.3	5703.2	5701.8	5704.5
75°	6432.4	6029.8	5834.7	5604.3	5448.4	5367.1	5356.2	5354.9
76°	6352.4	5876.7	5594.8	5411.8	5224.8	5142.1	5129.9	5123.1
77.5°	6014.9	5504.0	5079.7	4968.6	4789.7	4685.3	4707.0	4689.4
80°	4822.2	4315.3	3915.5	3602.4	3611.9	3536.0	3504.9	3495.4
82.5°	2842.1	2426.0	1984.2	1725.3	1478.7	1413.6	1217.1	1172.4
85°	908.1	643.8	390.3	283.3	192.5	161.3	126.0	115.2
87.5°	120.6	94.9	77.3	74.5	67.8	58.3	37.9	27.1
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)