

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: P157788

Luminaire Tested: **VST-E05-LED-E-U-5XQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157788
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-E05-LED-E-U-5XQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13345.8 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G3

Input Watts (W): 127.3
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

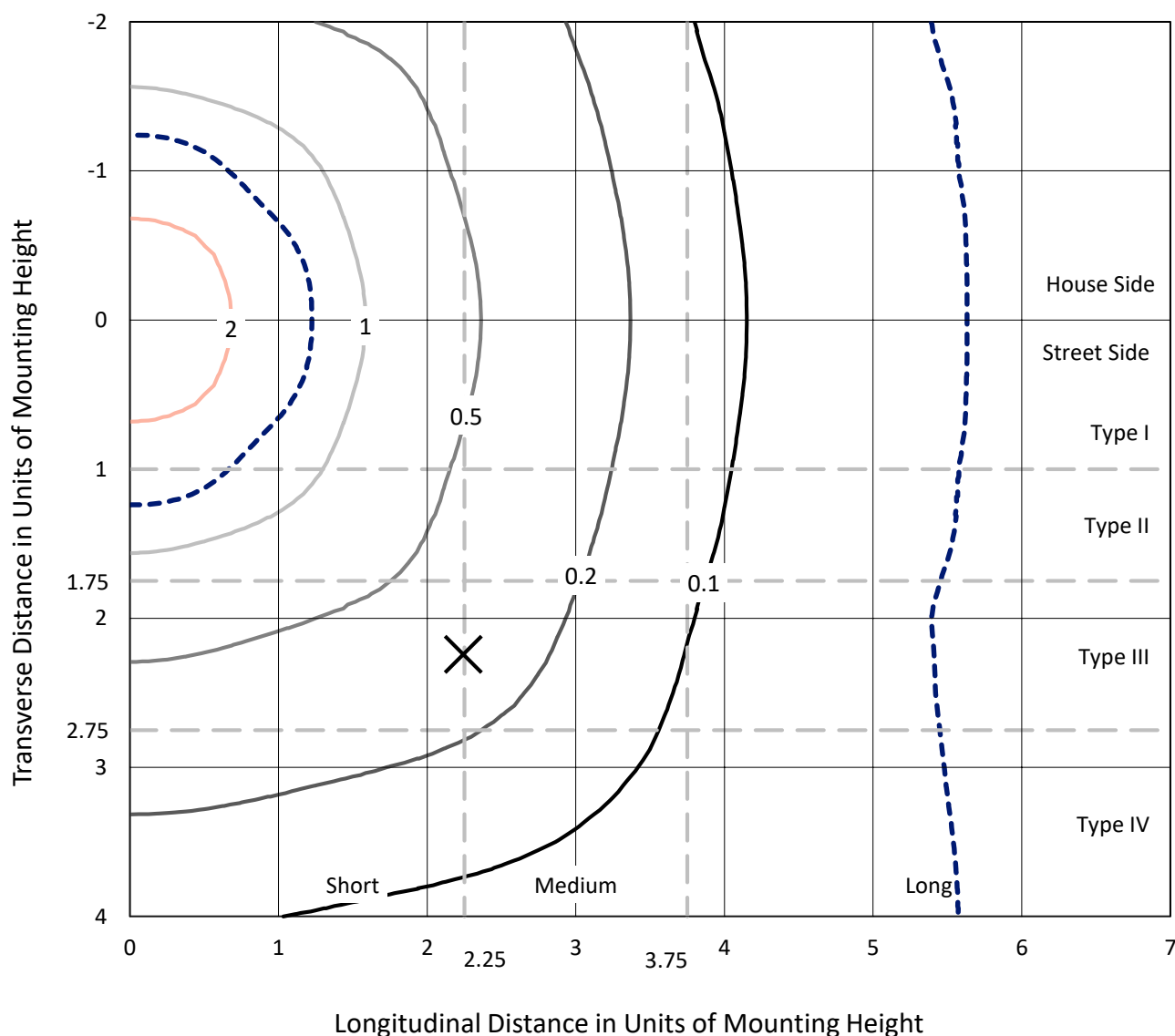


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

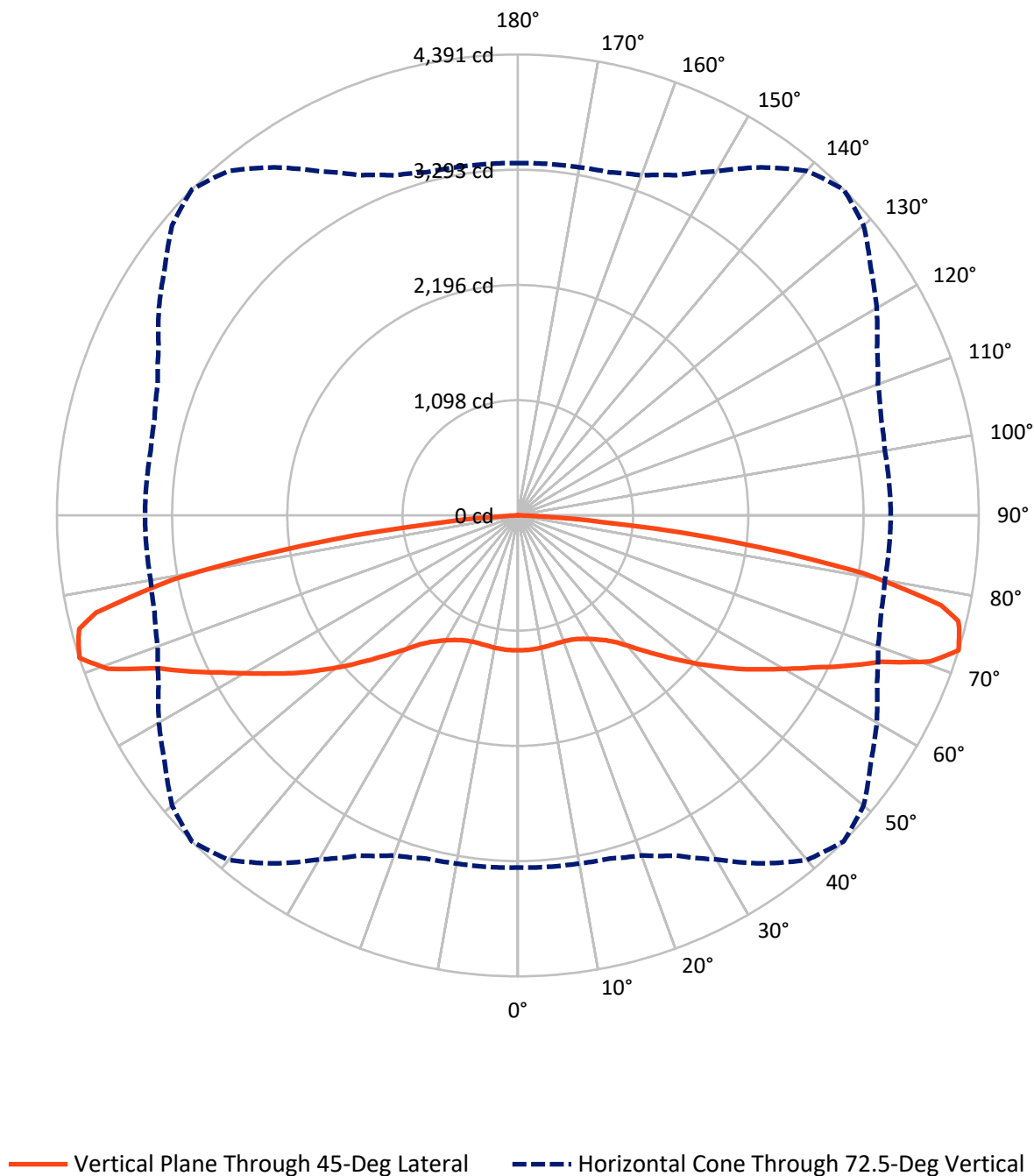


Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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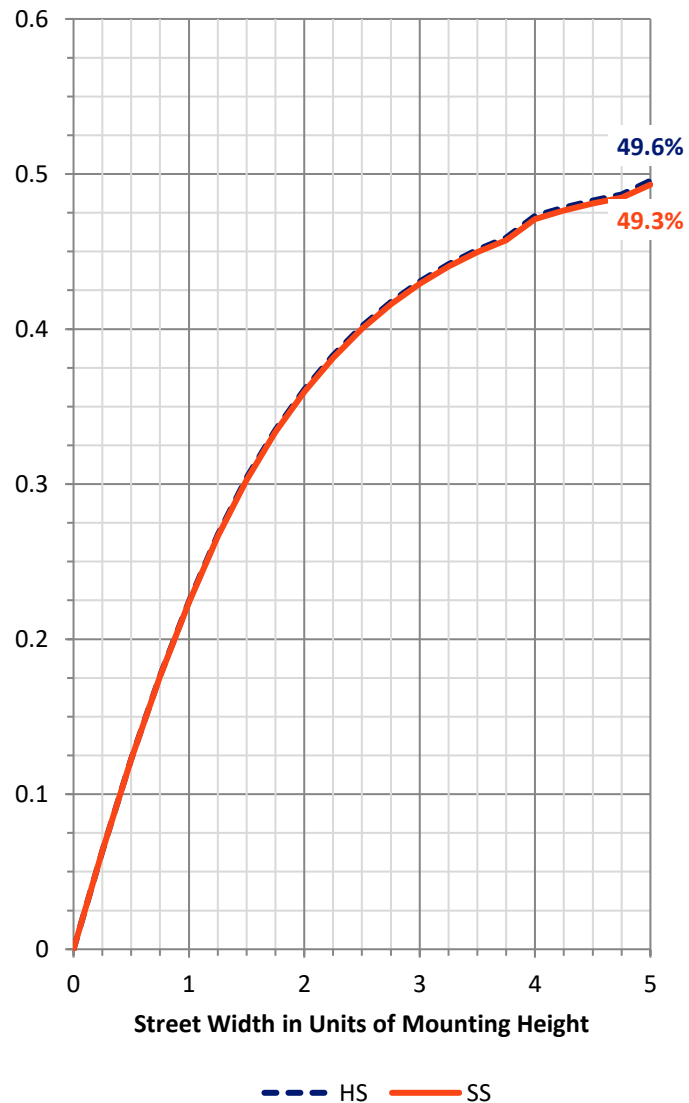
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6669.7	3.2	6672.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6669.7	3.2	6672.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	13339.4	6.4	13345.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.6	0.9
10°-20°	362.0	2.7
20°-30°	605.3	4.5
30°-40°	920.0	6.9
40°-50°	1457.2	10.9
50°-60°	2229.0	16.7
60°-70°	3190.0	23.9
70°-80°	3650.1	27.4
80°-90°	803.3	6.0
90°-100°	0.6	0.0
100°-110°	1.4	0.0
110°-120°	0.9	0.0
120°-130°	1.0	0.0
130°-140°	1.0	0.0
140°-150°	0.7	0.0
150°-160°	0.5	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	13339.4	100.0
0°-180°	13345.8	100.0

Coefficient of Utilization



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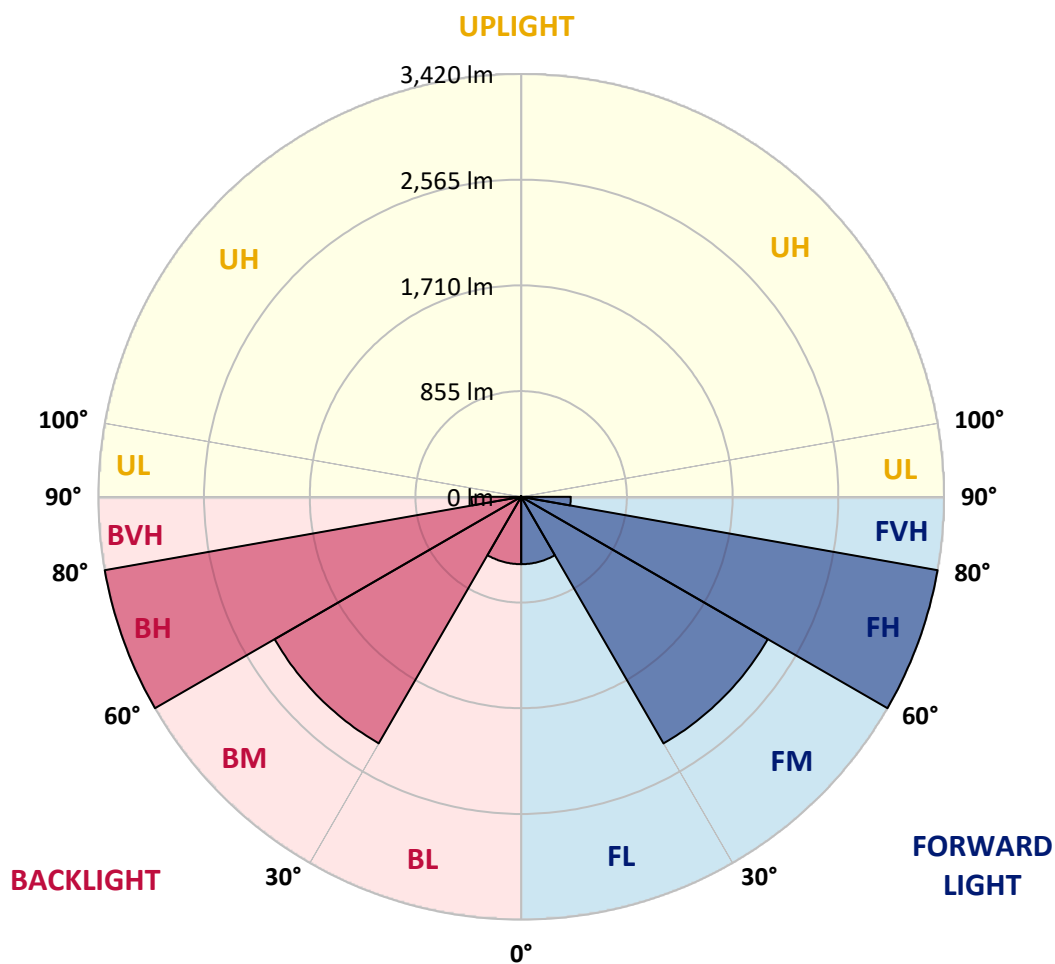
CATALOG NUMBER: VST-E05-LED-E-U-5XQ-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	544.9	4.1			
FM	(30°-60°)	2303.1	17.3			
FH	(60°-80°)	3420.1	25.6			G2/5000
FVH	(80°-90°)	401.7	3.0			G3/500
BL	(0°-30°)	544.9	4.1	B2/1000		
BM	(30°-60°)	2303.1	17.3	B2/2500		
BH	(60°-80°)	3420.1	25.6	B4/5000		G2/5000
BVH	(80°-90°)	401.7	3.0			G3/500
UL	(90°-100°)	0.6	0.0		U1/10	
UH	(100°-180°)	3.2	0.0		U1/10	

BUG Rating: B4-U1-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1285.4	1283.7	1284.6	1286.2	1285.4	1285.4	1284.6	1284.6	1286.2	1284.6	1285.4
5°	1286.2	1284.6	1285.4	1286.2	1285.4	1286.2	1285.4	1285.4	1285.4	1284.6	1286.2
7.5°	1282.9	1282.9	1283.7	1283.7	1282.9	1283.7	1283.7	1283.7	1282.9	1282.9	1284.6
10°	1281.2	1280.3	1280.3	1281.2	1280.3	1280.3	1281.2	1281.2	1279.5	1279.5	1281.2
12.5°	1278.6	1277.8	1277.8	1277.8	1277.0	1277.0	1277.8	1277.8	1277.0	1276.1	1278.6
15°	1277.0	1276.1	1276.1	1276.1	1274.4	1275.3	1275.3	1275.3	1274.4	1273.6	1276.1
17.5°	1276.1	1275.3	1275.3	1275.3	1274.4	1274.4	1274.4	1274.4	1273.6	1273.6	1275.3
20°	1277.8	1277.8	1277.8	1277.8	1277.0	1277.0	1277.0	1277.8	1277.8	1277.8	1279.5
22.5°	1282.0	1282.0	1282.9	1283.7	1283.7	1285.4	1286.2	1287.1	1287.1	1287.9	1289.6
25°	1293.0	1293.0	1293.8	1294.7	1297.2	1298.9	1302.3	1304.0	1304.8	1304.8	1305.7
27.5°	1313.2	1314.1	1315.8	1317.5	1320.8	1323.4	1326.8	1330.1	1331.0	1331.8	1332.7
30°	1338.6	1339.4	1342.8	1344.5	1348.7	1353.8	1358.0	1361.4	1363.9	1365.6	1364.7
32.5°	1374.9	1376.5	1380.8	1383.3	1389.2	1394.3	1400.2	1405.2	1407.8	1410.3	1409.5
35°	1425.5	1429.7	1433.9	1436.5	1442.4	1446.6	1454.2	1459.3	1464.3	1462.6	1463.5
37.5°	1500.6	1504.0	1504.8	1506.5	1512.4	1515.8	1524.2	1531.0	1533.5	1535.2	1536.1
40°	1601.9	1601.9	1606.1	1602.7	1610.3	1611.2	1621.3	1630.6	1633.1	1639.9	1634.8
42.5°	1720.1	1719.2	1721.7	1719.2	1719.2	1727.6	1736.1	1753.0	1754.7	1763.1	1758.0
45°	1848.3	1848.3	1845.8	1846.7	1848.3	1857.6	1867.8	1886.3	1894.8	1899.8	1896.4
47.5°	1987.6	1984.2	1983.4	1982.5	1987.6	1997.7	2012.9	2030.6	2051.7	2053.4	2051.7
50°	2128.5	2127.7	2121.8	2126.9	2130.2	2135.3	2164.0	2187.6	2209.6	2223.1	2218.9
52.5°	2277.1	2269.5	2269.5	2269.5	2277.9	2294.0	2319.3	2351.4	2380.9	2395.2	2392.7
55°	2427.3	2424.8	2417.2	2413.8	2424.8	2447.6	2483.9	2522.7	2561.5	2583.5	2575.0
57.5°	2564.9	2560.7	2561.5	2562.4	2575.0	2605.4	2647.6	2699.1	2741.3	2764.9	2759.0
60°	2672.9	2667.9	2677.1	2679.7	2702.5	2753.1	2820.6	2885.6	2941.3	2964.9	2955.7
62.5°	2795.3	2791.9	2797.8	2797.0	2821.5	2878.0	2968.3	3072.1	3156.5	3186.9	3173.4
65°	2992.8	2982.7	2980.1	2970.8	2986.9	3030.8	3121.1	3241.8	3376.8	3454.5	3435.9
67.5°	3229.1	3226.6	3218.1	3213.1	3219.0	3273.8	3360.8	3477.2	3614.8	3722.0	3745.6
70°	3385.2	3388.6	3397.1	3409.7	3458.7	3565.0	3723.7	3900.1	4089.1	4169.3	4155.0
72.5°	3355.7	3360.8	3367.5	3383.6	3447.7	3575.1	3784.5	4047.8	4284.9	4391.3	4300.1
75°	3211.4	3215.6	3230.8	3255.3	3333.8	3488.2	3713.6	3992.9	4237.7	4344.0	4248.7
76°	3078.0	3091.5	3119.4	3148.1	3242.6	3410.6	3651.1	3949.0	4208.1	4316.2	4224.2
77.5°	2775.9	2787.7	2810.5	2860.3	2967.5	3182.7	3463.7	3756.6	4026.7	4123.7	4046.1
80°	2088.9	2099.0	2120.1	2180.0	2272.9	2406.2	2624.0	2910.1	3206.3	3333.8	3283.1
82.5°	882.0	893.8	977.3	1064.3	1166.4	1310.7	1452.5	1705.7	1923.5	2068.6	1991.0
85°	97.1	119.8	147.7	200.9	246.4	328.3	408.5	562.1	710.6	800.9	708.1
87.5°	16.9	19.4	27.9	35.4	39.7	45.6	54.9	76.8	104.7	90.3	92.0
90°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
97.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
102.5°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7
105°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
107.5°	0.8	0.8	0.8	0.8	1.7	1.7	0.8	0.8	0.8	1.7	0.8



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
117.5°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
120°	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
122.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
125°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
127.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
130°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
132.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
135°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
137.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
140°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
142.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
145°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.8
147.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
150°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.0	0.0	0.0
152.5°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.0
155°	1.7	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.8
157.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.0	0.0
160°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.0	0.0
162.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.0	0.0	0.0
165°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	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°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1284.6	1284.6	1286.2	1285.4	1285.4	1286.2	1287.9	1287.1
5°	1285.4	1286.2	1284.6	1285.4	1286.2	1286.2	1287.1	1286.2
7.5°	1283.7	1283.7	1283.7	1284.6	1285.4	1284.6	1285.4	1285.4
10°	1280.3	1281.2	1280.3	1282.0	1282.9	1282.9	1283.7	1283.7
12.5°	1277.8	1277.8	1277.8	1279.5	1280.3	1280.3	1281.2	1280.3
15°	1275.3	1275.3	1274.4	1276.1	1277.8	1277.8	1278.6	1278.6
17.5°	1274.4	1274.4	1273.6	1275.3	1277.0	1277.0	1277.8	1277.8
20°	1277.0	1277.8	1276.1	1277.8	1279.5	1280.3	1280.3	1280.3
22.5°	1287.1	1286.2	1283.7	1284.6	1285.4	1285.4	1285.4	1285.4
25°	1302.3	1300.6	1298.1	1297.2	1296.4	1295.5	1295.5	1295.5
27.5°	1328.4	1325.9	1321.7	1320.8	1320.0	1318.3	1318.3	1318.3
30°	1359.7	1356.3	1351.2	1349.5	1347.0	1345.3	1344.5	1343.6
32.5°	1404.4	1397.6	1391.7	1387.5	1385.0	1379.9	1379.1	1377.4
35°	1455.9	1450.8	1442.4	1439.8	1435.6	1433.1	1432.3	1428.0
37.5°	1526.8	1520.9	1513.3	1511.6	1510.7	1508.2	1508.2	1507.4
40°	1625.5	1619.6	1612.9	1606.1	1607.8	1608.6	1608.6	1605.3
42.5°	1746.2	1736.9	1723.4	1727.6	1725.1	1721.7	1728.5	1724.3
45°	1883.8	1871.1	1861.0	1856.8	1856.8	1852.6	1859.3	1859.3
47.5°	2036.6	2016.3	1997.7	1998.6	1991.8	1993.5	1997.7	2003.6
50°	2197.8	2170.7	2153.0	2144.6	2137.8	2140.4	2148.0	2149.6
52.5°	2364.9	2331.9	2308.3	2295.7	2287.2	2290.6	2296.5	2301.6
55°	2538.7	2502.4	2467.0	2453.5	2443.4	2450.1	2450.9	2457.7
57.5°	2720.2	2670.4	2629.0	2608.8	2598.6	2605.4	2610.5	2617.2
60°	2903.3	2845.9	2797.0	2773.4	2759.0	2768.3	2780.1	2783.5
62.5°	3116.0	3036.7	2981.8	2948.1	2941.3	2950.6	2954.0	2964.1
65°	3367.5	3272.2	3196.2	3154.8	3153.2	3158.2	3165.8	3168.3
67.5°	3654.5	3548.1	3446.0	3404.7	3388.6	3403.8	3411.4	3421.5
70°	4059.6	3913.6	3765.9	3673.9	3635.1	3623.3	3626.6	3637.6
72.5°	4105.2	3948.2	3776.0	3651.1	3582.7	3551.5	3550.7	3552.4
75°	4005.6	3754.9	3633.4	3489.9	3392.8	3342.2	3335.5	3334.6
76°	3955.8	3659.5	3484.0	3370.1	3253.6	3202.1	3194.5	3190.3
77.5°	3745.6	3427.4	3163.3	3094.1	2982.7	2917.7	2931.2	2920.2
80°	3002.9	2687.3	2438.3	2243.3	2249.2	2202.0	2182.6	2176.7
82.5°	1769.8	1510.7	1235.6	1074.4	920.8	880.3	757.9	730.1
85°	565.5	400.9	243.1	176.4	119.8	100.4	78.5	71.7
87.5°	75.1	59.1	48.1	46.4	42.2	36.3	23.6	16.9
90°	0.8	0.8	0.8	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°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
97.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
100°	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8
102.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
105°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
107.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
112.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7
115°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.7
117.5°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
120°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7
122.5°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
125°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
127.5°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
130°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
132.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
135°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
137.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
140°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
142.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
145°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
147.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
150°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
152.5°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
155°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
157.5°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
160°	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7
162.5°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
165°	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7
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)