

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: P157353

Luminaire Tested: **VST-F05-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157353
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-F05-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11143.8 lumens
Efficiency: N/A
Efficacy: 83.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 133.3
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

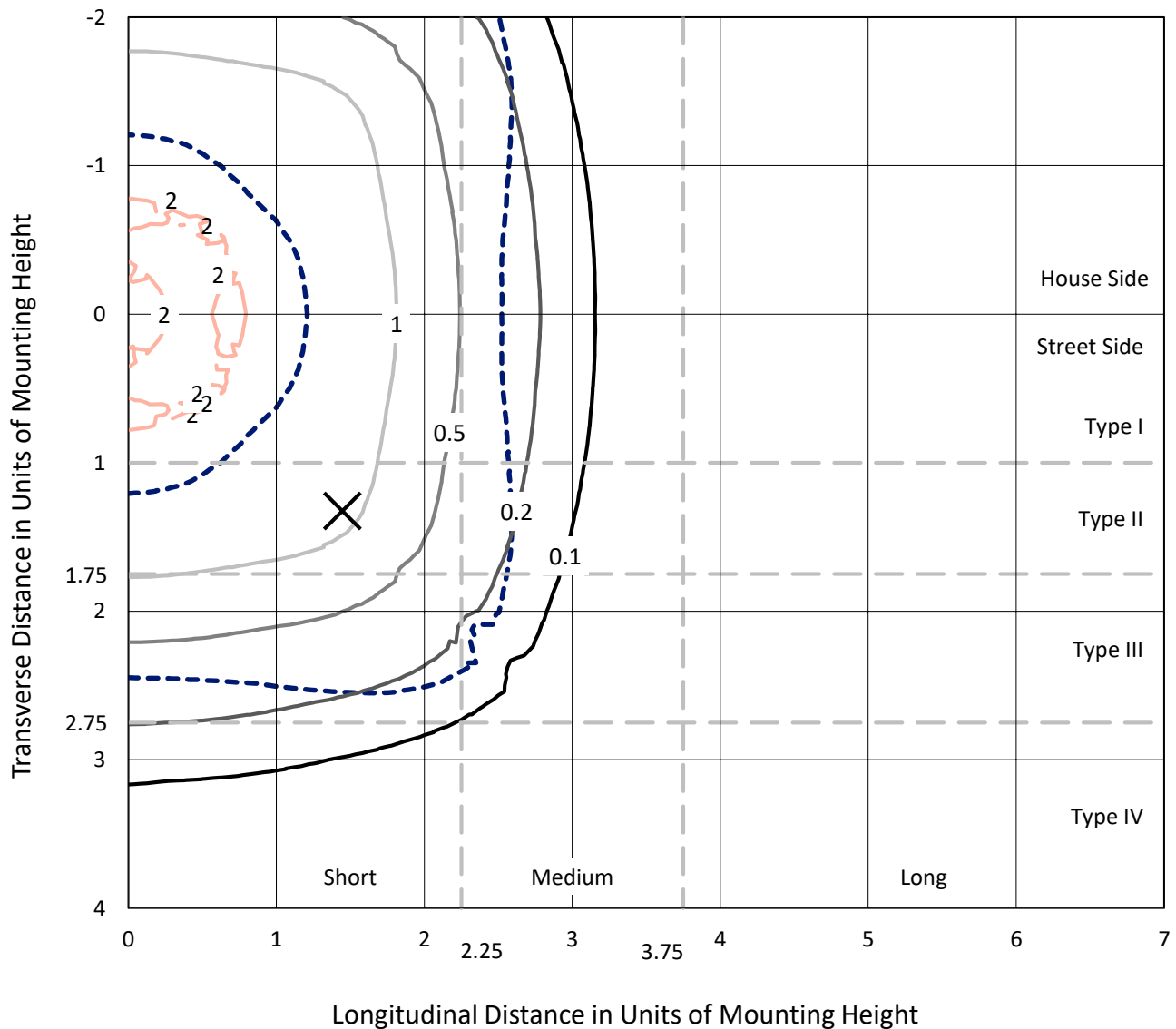


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

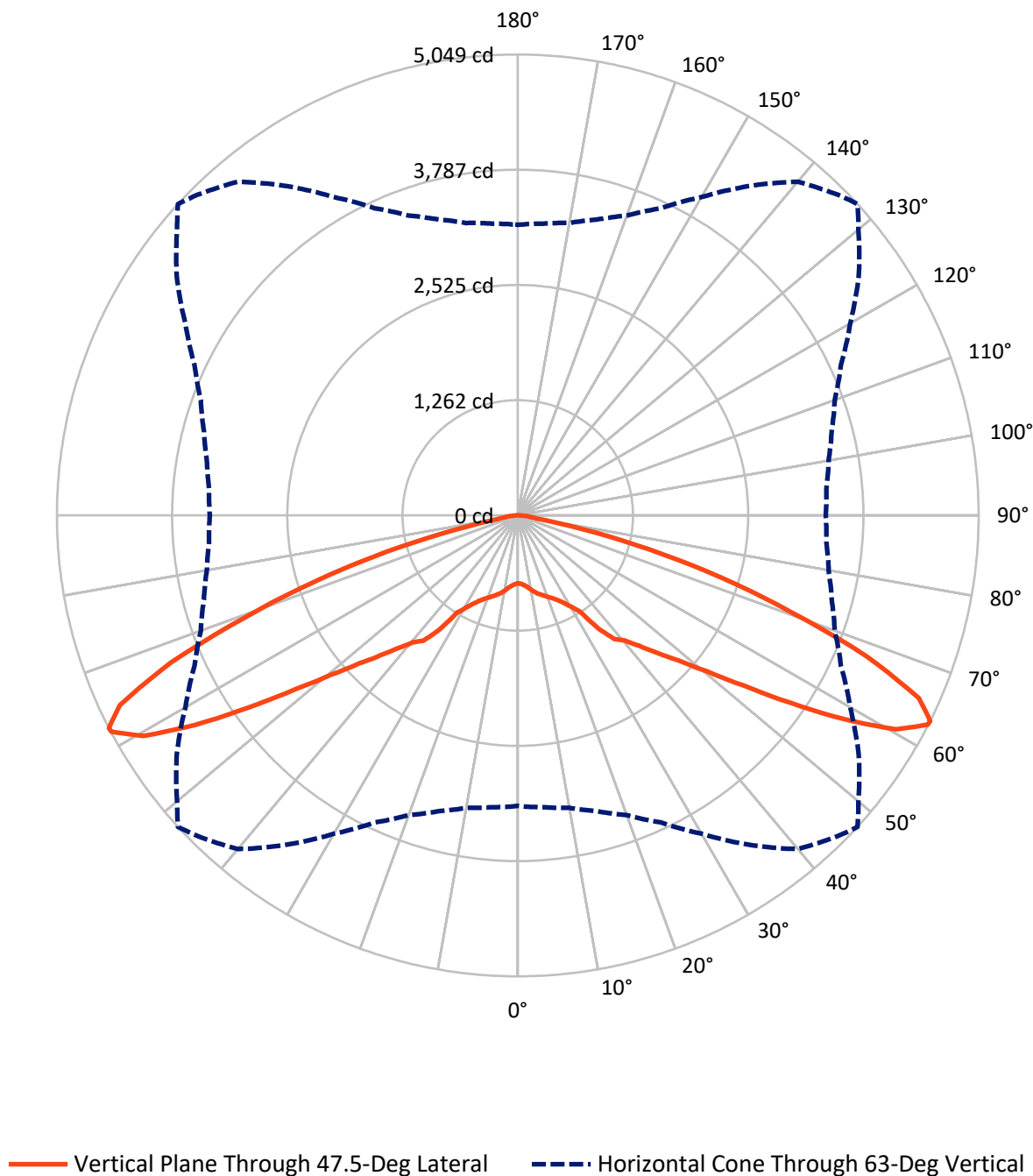


Based on 20 foot mounting height. Maximum calculated value = 2 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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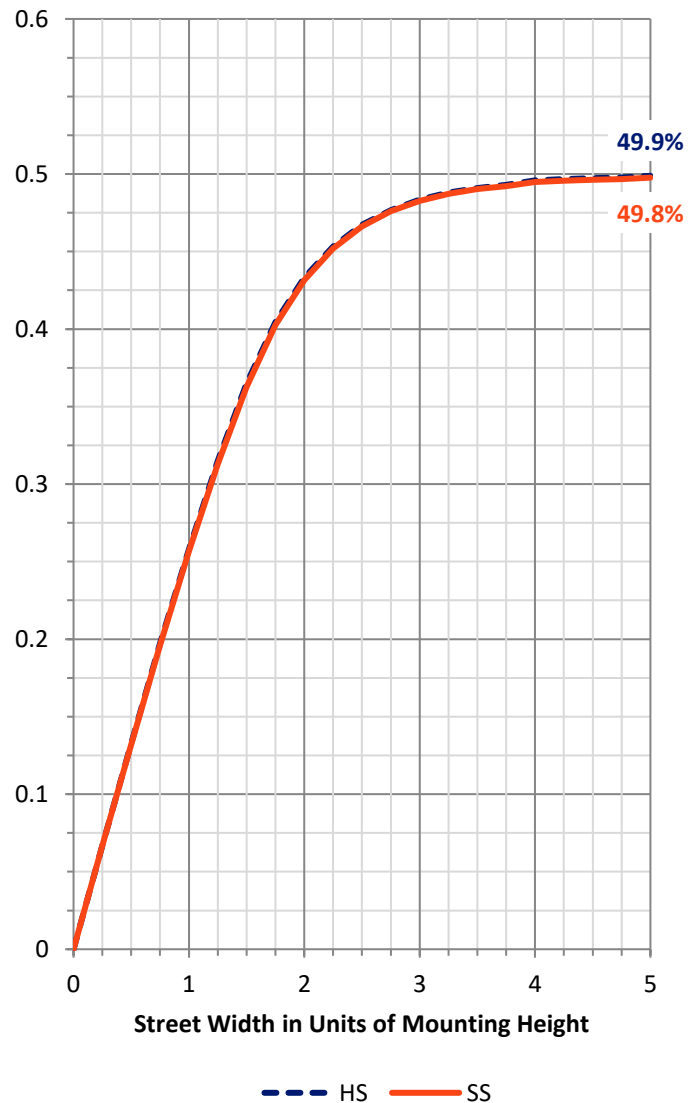
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5571.9	0.0	5571.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5571.9	0.0	5571.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	11143.8	0.0	11143.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.7	0.7
10°-20°	253.9	2.3
20°-30°	485.7	4.4
30°-40°	929.2	8.3
40°-50°	1607.8	14.4
50°-60°	2887.5	25.9
60°-70°	3511.3	31.5
70°-80°	1268.1	11.4
80°-90°	125.6	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°	11143.8	100.0
0°-180°	11143.8	100.0

Coefficient of Utilization



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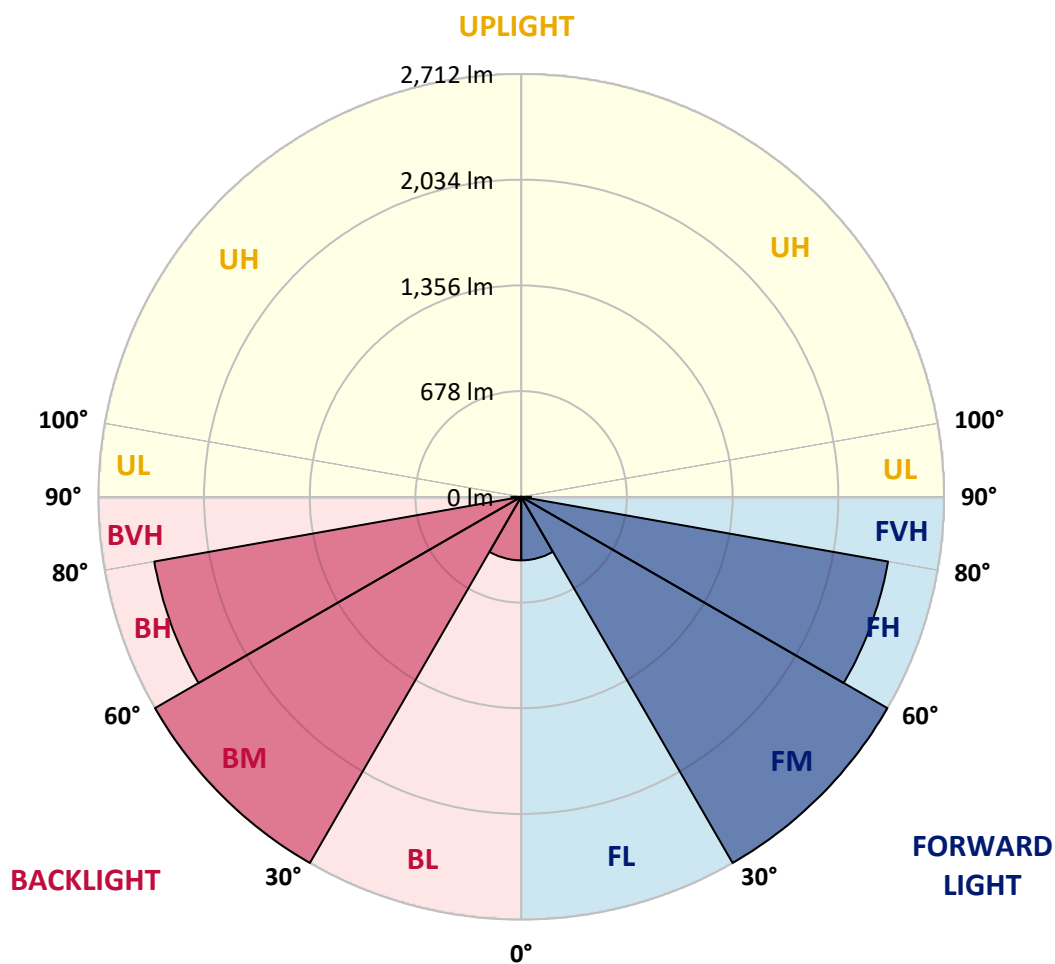
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	407.2	3.7			
FM	(30°-60°)	2712.2	24.3			
FH	(60°-80°)	2389.7	21.4			G2/5000
FVH	(80°-90°)	62.8	0.6			G1/100
BL	(0°-30°)	407.2	3.7	B1/500		
BM	(30°-60°)	2712.2	24.3	B3/5000		
BH	(60°-80°)	2389.7	21.4	B3/2500		G2/5000
BVH	(80°-90°)	62.8	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1
2.5°	749.0	747.6	748.3	749.0	748.3	747.6	747.6	747.6	749.0	747.6	751.1
5°	763.6	762.2	762.9	762.9	762.9	761.5	761.5	761.5	760.8	761.5	769.2
7.5°	791.5	789.4	788.7	790.1	788.7	788.0	787.3	787.3	785.9	785.9	795.7
10°	824.9	822.1	823.5	824.2	822.1	820.8	820.8	820.8	818.7	818.0	830.5
12.5°	861.9	860.5	860.5	859.1	858.4	857.0	856.3	857.0	854.2	854.2	866.7
15°	897.4	894.6	895.3	893.2	891.8	890.4	889.7	889.0	887.6	887.6	895.3
17.5°	930.1	928.1	927.4	925.3	923.2	921.1	919.7	919.0	916.9	916.9	923.9
20°	964.3	962.2	960.8	957.3	953.8	951.7	949.0	947.6	944.8	945.5	953.1
22.5°	1003.3	999.8	997.0	994.2	988.0	983.8	980.3	977.5	976.1	976.1	986.6
25°	1055.6	1053.5	1049.3	1040.2	1032.6	1026.3	1020.7	1017.9	1015.1	1013.8	1029.8
27.5°	1119.7	1117.6	1112.0	1102.9	1092.5	1082.0	1075.8	1070.9	1067.4	1065.3	1088.3
30°	1204.7	1201.2	1196.3	1181.7	1172.6	1156.6	1149.6	1142.6	1135.0	1137.1	1164.2
32.5°	1371.2	1366.3	1351.0	1334.9	1307.1	1285.5	1263.2	1246.5	1230.4	1228.3	1257.6
35°	1522.4	1520.3	1517.5	1506.3	1495.9	1482.7	1472.2	1454.8	1440.2	1436.7	1518.9
37.5°	1603.9	1608.8	1604.6	1603.2	1603.2	1609.5	1629.0	1648.5	1662.4	1670.8	1716.8
40°	1728.6	1728.6	1723.7	1720.9	1715.4	1723.7	1732.1	1746.7	1753.0	1753.7	1800.4
42.5°	1870.0	1870.7	1865.9	1857.5	1854.7	1862.4	1873.5	1887.5	1895.8	1897.9	1952.3
45°	2027.5	2025.4	2021.2	2018.4	2020.5	2027.5	2040.7	2067.9	2080.5	2090.2	2149.4
47.5°	2198.2	2212.1	2200.3	2202.4	2202.4	2224.0	2253.9	2276.2	2296.4	2315.3	2378.0
50°	2421.9	2423.9	2426.0	2432.3	2436.5	2465.1	2502.7	2529.2	2558.4	2582.8	2685.2
52.5°	2720.8	2716.6	2727.0	2734.0	2757.7	2773.0	2835.7	2869.2	2909.6	2940.9	3090.7
55°	3078.2	3076.1	3091.4	3097.0	3128.3	3166.0	3235.6	3308.8	3377.8	3416.1	3620.9
57.5°	3334.6	3340.2	3366.6	3403.6	3464.9	3545.0	3648.8	3810.4	3941.4	3983.2	4209.0
60°	3391.0	3409.1	3448.8	3522.7	3627.9	3777.0	3981.1	4228.5	4468.2	4548.3	4760.1
62.5°	3232.9	3253.8	3312.3	3400.8	3538.0	3758.9	4053.6	4402.7	4758.7	4937.1	5043.7
63°	3182.7	3208.5	3252.4	3354.8	3494.1	3712.2	4025.7	4402.0	4771.2	4965.6	5049.2
65°	2947.2	2952.1	3017.6	3120.0	3276.7	3503.2	3819.5	4254.3	4663.9	4888.3	4830.5
67.5°	2536.1	2556.3	2611.4	2714.5	2867.1	3102.6	3446.1	3848.1	4208.3	4387.3	4128.9
70°	2049.1	2047.7	2116.0	2198.9	2333.4	2540.3	2841.3	3204.3	3489.9	3620.2	3187.6
72.5°	1463.8	1427.6	1477.8	1569.7	1679.8	1845.0	2083.2	2365.4	2621.1	2734.0	2330.6
75°	666.8	657.0	701.6	792.9	904.4	1051.4	1247.2	1491.0	1736.3	1868.6	1484.7
77.5°	224.3	227.1	244.6	277.3	337.2	411.1	533.0	689.1	887.6	1018.6	696.7
80°	150.5	154.7	160.2	165.1	172.1	183.2	209.7	250.1	311.4	376.9	220.2
82.5°	123.3	128.2	140.7	146.3	150.5	154.0	156.1	158.9	158.9	160.2	139.3
85°	88.5	96.8	113.6	124.0	128.2	131.0	134.5	138.7	132.4	126.8	108.0
87.5°	30.7	41.8	61.3	67.6	72.5	73.2	78.0	86.4	82.2	66.9	32.7
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°	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1
2.5°	747.6	746.9	747.6	748.3	748.3	748.3	749.0	749.7	749.7
5°	761.5	762.2	761.5	762.2	762.2	762.9	762.9	764.3	764.3
7.5°	785.2	786.6	785.9	787.3	787.3	788.7	788.0	790.1	790.1
10°	817.3	818.7	820.1	820.8	820.1	821.5	822.8	823.5	822.8
12.5°	853.5	854.2	853.5	854.9	854.9	856.3	856.3	858.4	858.4
15°	886.9	886.2	885.6	887.6	889.0	889.7	891.1	893.2	891.1
17.5°	916.9	917.6	916.2	918.3	921.1	923.2	924.6	927.4	926.7
20°	946.9	945.5	946.9	950.3	953.1	955.9	958.7	962.9	962.2
22.5°	976.1	977.5	981.0	983.8	988.7	992.8	996.3	1001.9	1004.0
25°	1017.2	1017.2	1022.8	1026.3	1033.3	1038.8	1046.5	1052.8	1056.3
27.5°	1069.5	1069.5	1075.8	1083.4	1093.9	1103.6	1112.0	1120.4	1119.0
30°	1140.6	1144.0	1149.6	1159.4	1173.3	1185.1	1196.3	1204.7	1205.4
32.5°	1233.9	1238.1	1254.8	1279.9	1309.2	1331.5	1348.2	1368.4	1371.2
35°	1445.7	1456.2	1477.8	1498.0	1509.8	1523.1	1531.4	1532.1	1533.5
37.5°	1668.7	1650.6	1633.8	1618.5	1611.5	1610.2	1610.2	1612.9	1614.3
40°	1750.2	1741.1	1733.5	1723.7	1726.5	1725.8	1730.7	1734.9	1737.7
42.5°	1889.5	1882.6	1875.6	1863.1	1870.0	1867.9	1874.9	1881.2	1884.7
45°	2083.9	2062.3	2047.0	2026.8	2033.8	2029.6	2029.6	2037.3	2038.6
47.5°	2298.5	2273.4	2242.1	2217.0	2208.7	2201.0	2208.0	2208.0	2200.3
50°	2555.6	2525.7	2488.7	2448.3	2434.4	2426.7	2429.5	2433.0	2411.4
52.5°	2904.7	2871.2	2819.0	2757.7	2744.4	2738.2	2736.8	2731.9	2726.3
55°	3377.8	3315.1	3251.0	3170.1	3145.8	3138.8	3139.5	3133.9	3147.2
57.5°	3935.9	3843.9	3696.2	3597.9	3539.4	3517.1	3496.9	3488.6	3489.3
60°	4488.4	4300.9	4080.1	3908.7	3786.1	3708.0	3646.7	3612.6	3602.8
62.5°	4844.4	4549.7	4218.0	3940.0	3738.7	3609.8	3512.9	3451.6	3432.1
63°	4872.3	4560.1	4205.5	3907.3	3695.5	3560.3	3458.6	3395.2	3374.3
65°	4811.7	4454.9	4041.8	3686.4	3454.4	3304.6	3194.5	3134.6	3118.6
67.5°	4340.7	4043.9	3623.0	3255.8	3021.7	2869.9	2743.7	2686.6	2668.5
70°	3531.1	3327.6	2982.7	2669.2	2451.1	2304.8	2177.3	2129.9	2129.2
72.5°	2617.6	2353.6	2148.0	1918.1	1727.9	1611.5	1500.8	1447.8	1421.3
75°	1731.4	1448.5	1218.6	1024.9	835.4	730.9	606.2	552.5	521.2
77.5°	872.3	646.6	463.3	321.2	249.4	204.8	187.4	178.4	177.7
80°	290.5	218.1	187.4	175.6	172.1	172.8	170.7	167.2	163.0
82.5°	160.9	169.3	170.7	165.8	165.8	163.0	160.2	147.0	140.0
85°	138.0	151.9	153.3	150.5	149.8	145.6	140.7	122.6	112.2
87.5°	86.4	99.6	97.5	87.1	96.1	89.9	85.0	55.0	40.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)