

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: P147596

Luminaire Tested: **AVS-F04-LED-E-U-5MQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147596
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVS-F04-LED-E-U-5MQ-7050
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (28) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10923.1 lumens
Efficiency: N/A
Efficacy: 106.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 102.2
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



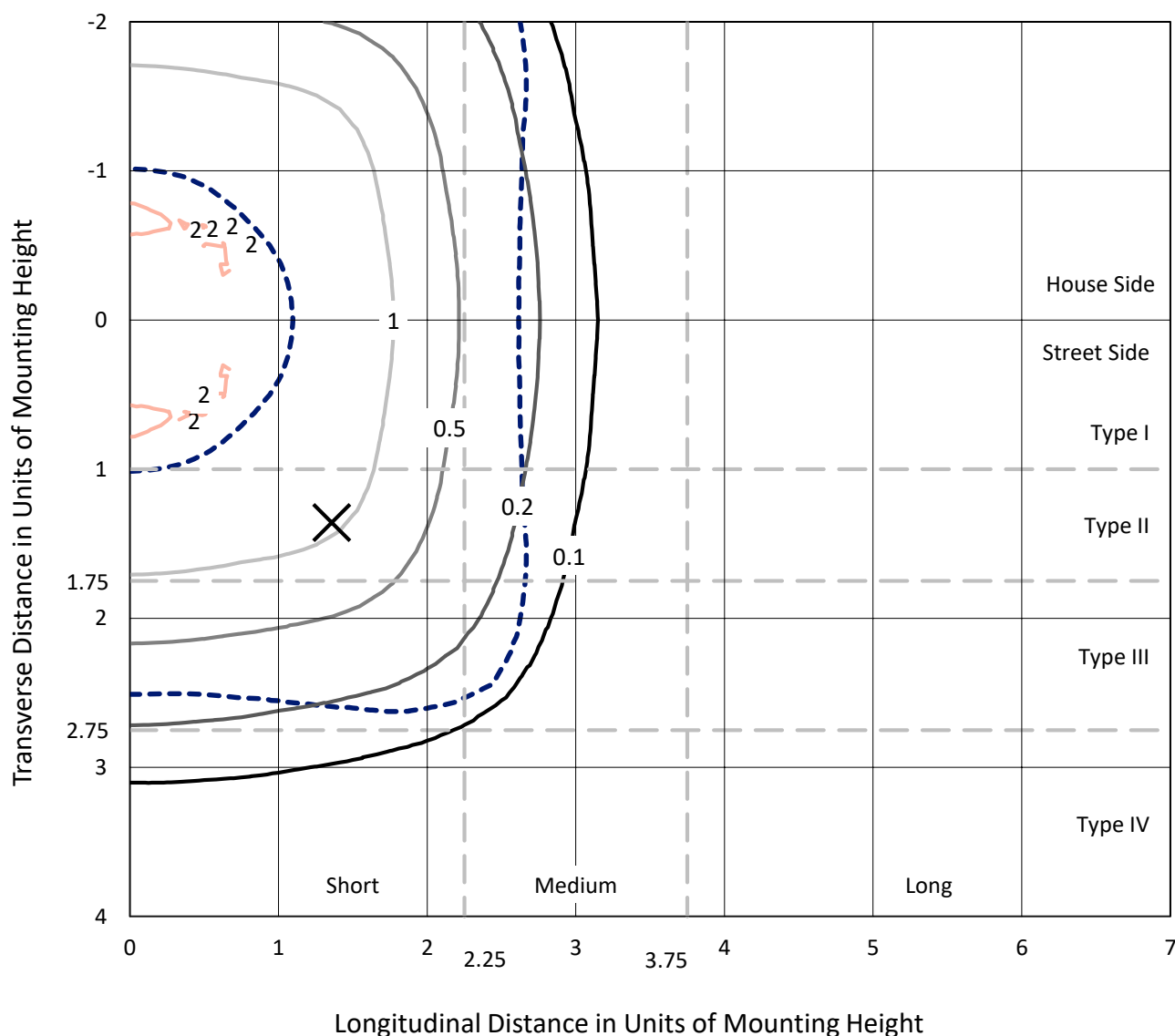
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

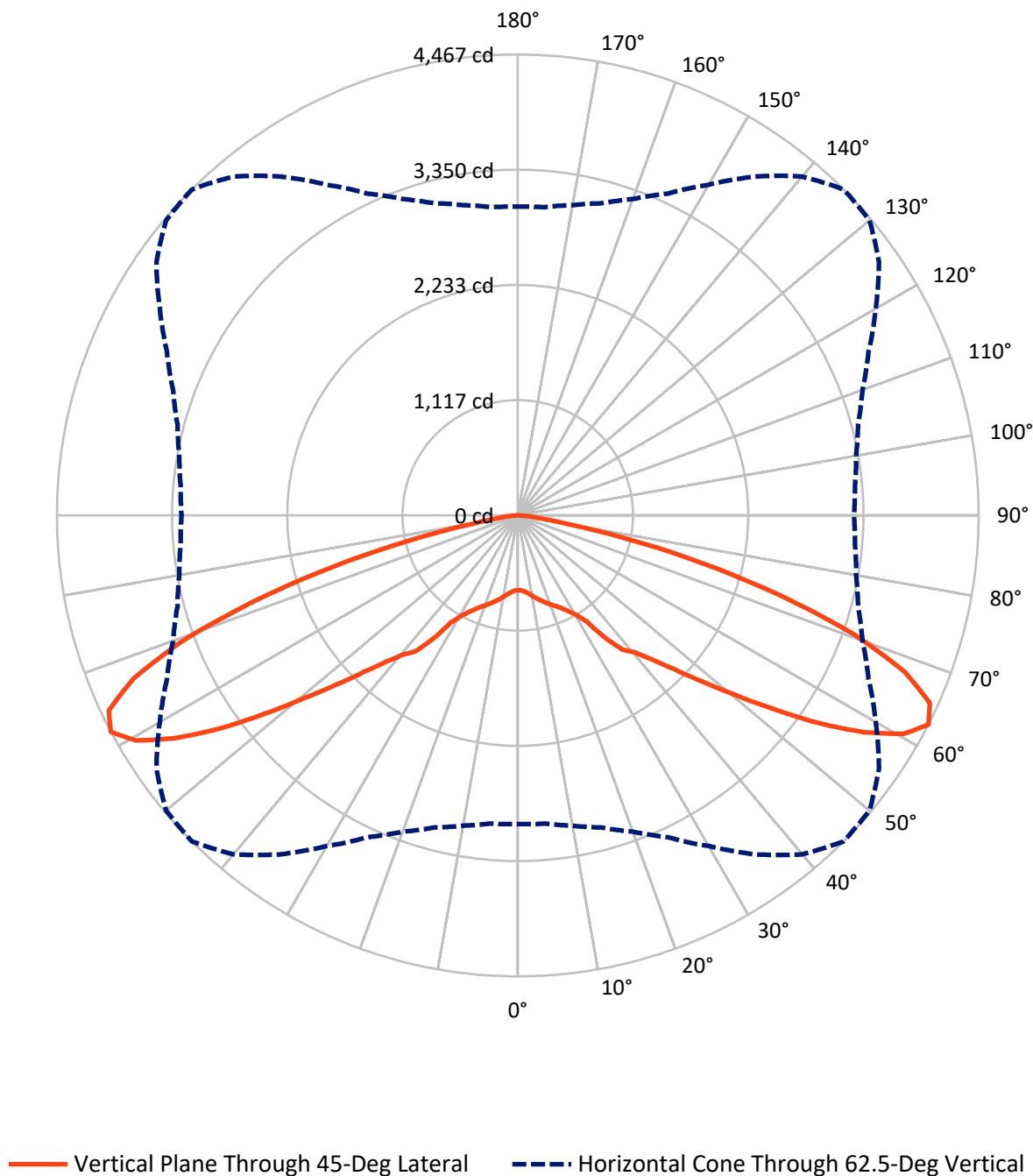


Based on 20 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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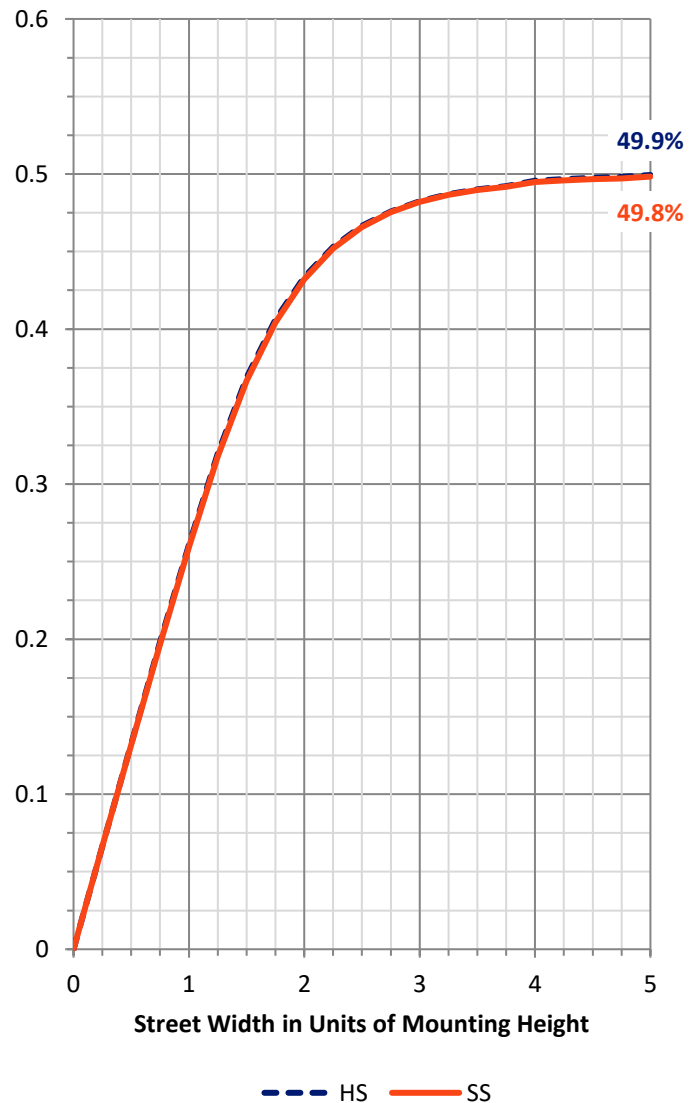
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5461.6	0.0	5461.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5461.6	0.0	5461.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	10923.1	0.0	10923.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.7	0.7
10°-20°	245.6	2.2
20°-30°	474.9	4.3
30°-40°	919.6	8.4
40°-50°	1660.3	15.2
50°-60°	2887.1	26.4
60°-70°	3277.6	30.0
70°-80°	1270.7	11.6
80°-90°	114.6	1.0
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°	10923.1	100.0
0°-180°	10923.1	100.0

Coefficient of Utilization



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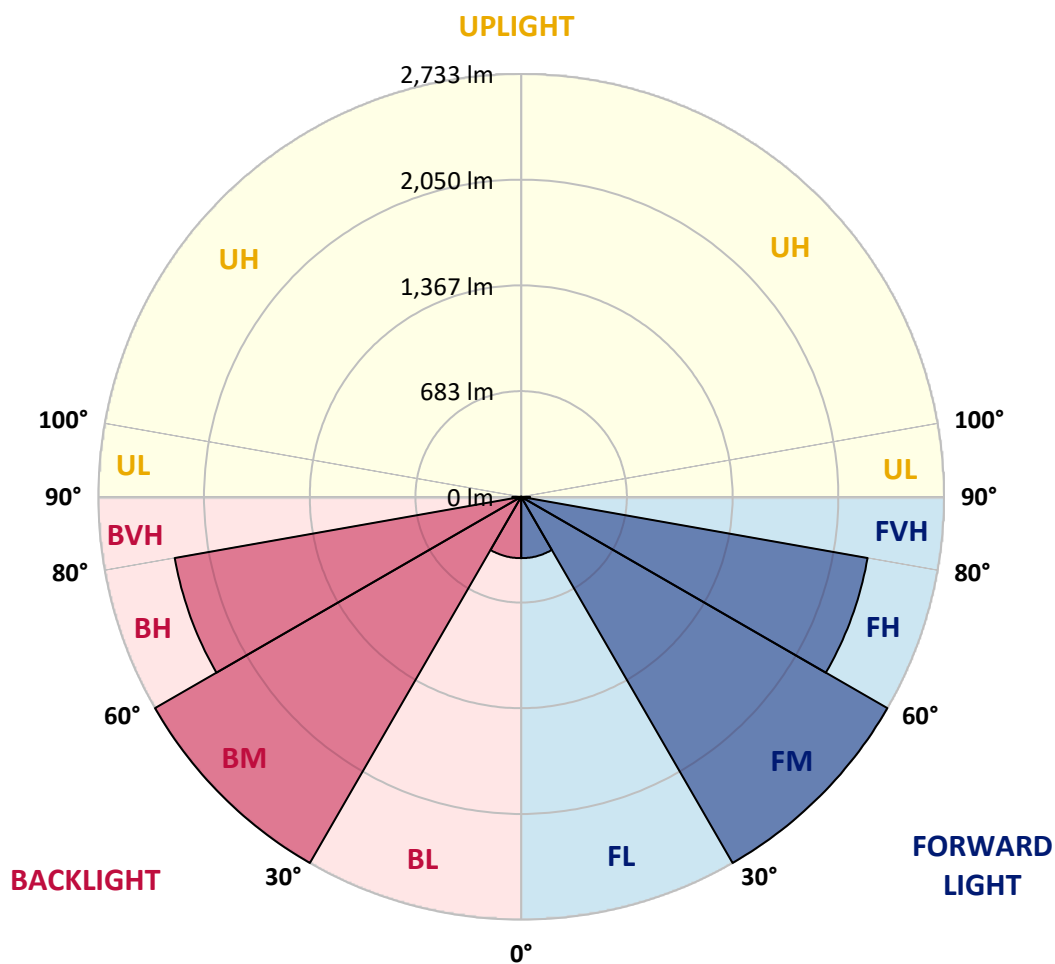
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	396.6	3.6			
FM	(30°-60°)	2733.5	25.0			
FH	(60°-80°)	2274.1	20.8			G2/5000
FVH	(80°-90°)	57.3	0.5			G1/100
BL	(0°-30°)	396.6	3.6	B1/500		
BM	(30°-60°)	2733.5	25.0	B3/5000		
BH	(60°-80°)	2274.1	20.8	B3/2500		G2/5000
BVH	(80°-90°)	57.3	0.5			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°	50°
0°	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1
2.5°	729.6	731.8	731.3	730.2	730.2	730.2	729.6	727.9	727.3	728.5	729.5
5°	746.5	746.5	746.5	746.5	745.5	745.5	744.2	743.2	743.7	742.6	742.0
7.5°	772.5	770.8	770.8	770.3	770.3	769.1	767.5	765.2	765.8	765.2	764.6
10°	803.1	803.6	801.9	803.5	800.8	800.2	797.9	796.8	796.3	794.6	794.6
12.5°	839.7	838.0	838.0	836.9	835.8	834.6	831.3	830.7	828.4	827.3	825.7
15°	874.2	873.6	871.3	869.0	868.6	867.4	863.4	861.1	860.6	857.8	855.5
17.5°	908.6	907.6	904.7	903.5	901.3	899.6	896.2	892.8	891.2	889.9	887.2
20°	945.3	944.2	941.3	939.1	936.4	934.1	928.9	926.1	924.5	922.7	920.5
22.5°	991.1	988.8	984.2	980.3	974.1	971.8	965.1	961.1	958.3	956.1	954.9
25°	1040.8	1041.3	1035.0	1030.1	1022.7	1016.5	1008.0	1003.5	1000.6	998.4	997.9
27.5°	1102.8	1103.4	1097.8	1090.5	1079.2	1072.3	1061.1	1055.4	1053.8	1051.5	1051.0
30°	1201.1	1196.1	1186.5	1174.6	1164.4	1149.8	1133.4	1127.7	1122.1	1120.4	1120.4
32.5°	1381.9	1379.1	1371.2	1341.8	1328.3	1297.7	1269.0	1252.5	1233.9	1224.9	1219.3
35°	1508.4	1507.3	1501.0	1490.8	1482.4	1476.2	1459.3	1456.4	1453.1	1453.1	1457.5
37.5°	1601.6	1594.8	1593.6	1595.2	1593.1	1594.2	1607.8	1626.3	1642.2	1650.2	1648.9
40°	1739.3	1729.7	1735.3	1731.4	1726.3	1725.2	1729.7	1737.0	1744.5	1744.5	1742.7
42.5°	1919.5	1923.9	1926.2	1909.8	1899.2	1896.4	1907.0	1904.9	1912.1	1909.2	1902.0
45°	2187.2	2184.4	2180.3	2160.6	2143.6	2130.2	2133.0	2129.0	2129.5	2125.0	2119.4
47.5°	2457.0	2466.7	2450.4	2440.7	2421.6	2411.9	2419.9	2413.1	2426.0	2402.3	2391.1
50°	2719.2	2725.9	2720.2	2706.7	2706.7	2720.2	2729.8	2742.3	2760.4	2733.3	2692.6
52.5°	2933.7	2939.4	2947.8	2959.2	2986.7	3015.5	3056.3	3099.7	3134.1	3129.1	3082.8
55°	3064.7	3071.5	3085.6	3124.6	3174.3	3249.9	3342.0	3443.1	3522.1	3560.5	3526.6
57.5°	3108.8	3113.9	3152.2	3199.1	3276.5	3388.8	3543.0	3717.5	3869.4	3966.0	3950.8
60°	3098.5	3098.5	3137.6	3202.0	3310.4	3459.5	3677.5	3919.2	4151.8	4296.4	4274.9
62.5°	2991.9	2997.5	3053.5	3130.8	3261.8	3440.2	3700.1	4008.9	4287.4	4466.9	4449.4
65°	2758.1	2762.1	2822.5	2914.5	3060.7	3271.9	3556.1	3898.2	4217.3	4390.1	4357.3
67.5°	2380.3	2384.2	2433.4	2537.2	2692.0	2912.7	3219.5	3596.1	3908.4	4045.0	3946.7
70°	1893.5	1904.9	1936.4	2046.5	2163.9	2380.3	2662.6	3039.4	3334.1	3463.4	3355.0
72.5°	1290.4	1319.2	1357.5	1455.2	1567.7	1747.3	1972.0	2289.3	2526.0	2675.6	2579.1
75°	726.8	767.5	779.4	853.3	945.9	1087.7	1252.0	1479.6	1718.4	1839.8	1723.5
77.5°	314.0	347.4	362.1	396.5	468.8	528.1	628.0	781.6	966.2	1051.5	912.0
80°	154.7	162.7	168.9	179.6	199.9	219.1	266.5	333.7	409.3	428.6	341.1
82.5°	119.7	125.4	136.2	144.6	149.6	154.7	159.3	168.3	175.6	179.6	169.4
85°	84.1	91.5	103.4	113.0	118.7	122.5	126.4	129.3	122.5	111.8	117.5
87.5°	22.0	28.8	40.1	43.4	49.1	51.9	50.8	52.5	47.5	34.4	38.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	725.1	725.1	725.1	725.1	725.1	725.1	725.1	725.1
2.5°	729.1	728.5	729.1	729.1	729.0	728.5	728.5	728.5
5°	742.0	742.1	742.6	741.5	741.6	742.0	741.5	740.9
7.5°	764.1	763.5	763.5	762.9	763.5	762.9	762.9	762.4
10°	793.4	792.3	792.8	791.1	791.2	790.6	790.7	790.6
12.5°	825.1	823.4	823.9	822.2	819.4	820.0	820.5	820.0
15°	855.5	853.9	852.2	851.0	849.3	849.9	849.9	849.3
17.5°	886.6	883.2	882.7	880.9	880.4	880.4	880.4	880.9
20°	918.8	916.5	916.0	914.3	913.8	915.4	916.1	914.8
22.5°	953.3	952.1	953.2	952.1	953.8	954.9	955.4	954.4
25°	996.7	995.6	997.3	1001.2	1003.5	1004.6	1007.5	1006.3
27.5°	1052.6	1051.5	1055.5	1061.1	1064.5	1070.2	1073.0	1074.1
30°	1125.0	1129.9	1132.2	1143.6	1145.9	1154.8	1154.8	1158.8
32.5°	1229.9	1239.6	1256.5	1274.0	1298.2	1315.9	1315.9	1324.9
35°	1460.3	1464.2	1477.3	1480.1	1485.2	1490.9	1485.2	1489.7
37.5°	1637.1	1619.6	1607.3	1589.7	1579.0	1579.0	1580.1	1579.0
40°	1727.5	1720.6	1715.0	1700.3	1698.0	1697.6	1697.6	1699.8
42.5°	1888.9	1872.5	1863.5	1851.2	1847.3	1846.0	1845.6	1846.6
45°	2099.1	2072.5	2048.3	2035.9	2025.1	2014.9	2018.2	2018.3
47.5°	2343.6	2302.4	2262.8	2241.5	2222.8	2214.3	2208.6	2206.9
50°	2641.2	2583.6	2532.7	2492.6	2465.5	2465.0	2467.8	2449.7
52.5°	3006.0	2915.0	2851.8	2797.6	2772.2	2769.3	2760.3	2750.2
55°	3410.4	3302.5	3198.0	3139.9	3106.5	3088.5	3077.7	3060.7
57.5°	3827.2	3681.9	3531.7	3438.5	3379.9	3339.2	3317.7	3308.1
60°	4148.4	3950.2	3751.9	3602.3	3504.7	3444.2	3406.9	3391.7
62.5°	4274.8	4006.1	3751.9	3555.4	3414.3	3330.7	3280.4	3258.4
65°	4124.1	3805.6	3516.5	3299.6	3142.1	3048.9	2994.2	2970.4
67.5°	3702.8	3421.7	3107.2	2891.4	2729.3	2637.3	2577.9	2560.4
70°	3104.2	2816.8	2516.4	2323.8	2179.3	2104.1	2042.6	2035.2
72.5°	2332.8	2085.0	1827.4	1668.2	1551.8	1427.6	1396.0	1411.8
75°	1495.3	1263.3	1034.0	890.6	784.5	665.7	620.1	631.4
77.5°	708.2	548.4	395.9	306.1	257.0	219.7	210.2	204.5
80°	262.6	212.8	188.0	178.4	171.6	165.4	160.9	155.9
82.5°	169.9	166.0	160.9	159.2	154.2	146.2	131.6	125.4
85°	127.0	127.0	120.3	120.8	116.9	106.7	93.3	85.8
87.5°	37.3	33.4	30.5	28.2	27.7	24.9	18.0	15.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)