

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: P200080

Luminaire Tested: **GAP-AF-02-LED-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200080
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAP-AF-02-LED-U-5WQ
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13385.3 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 113
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

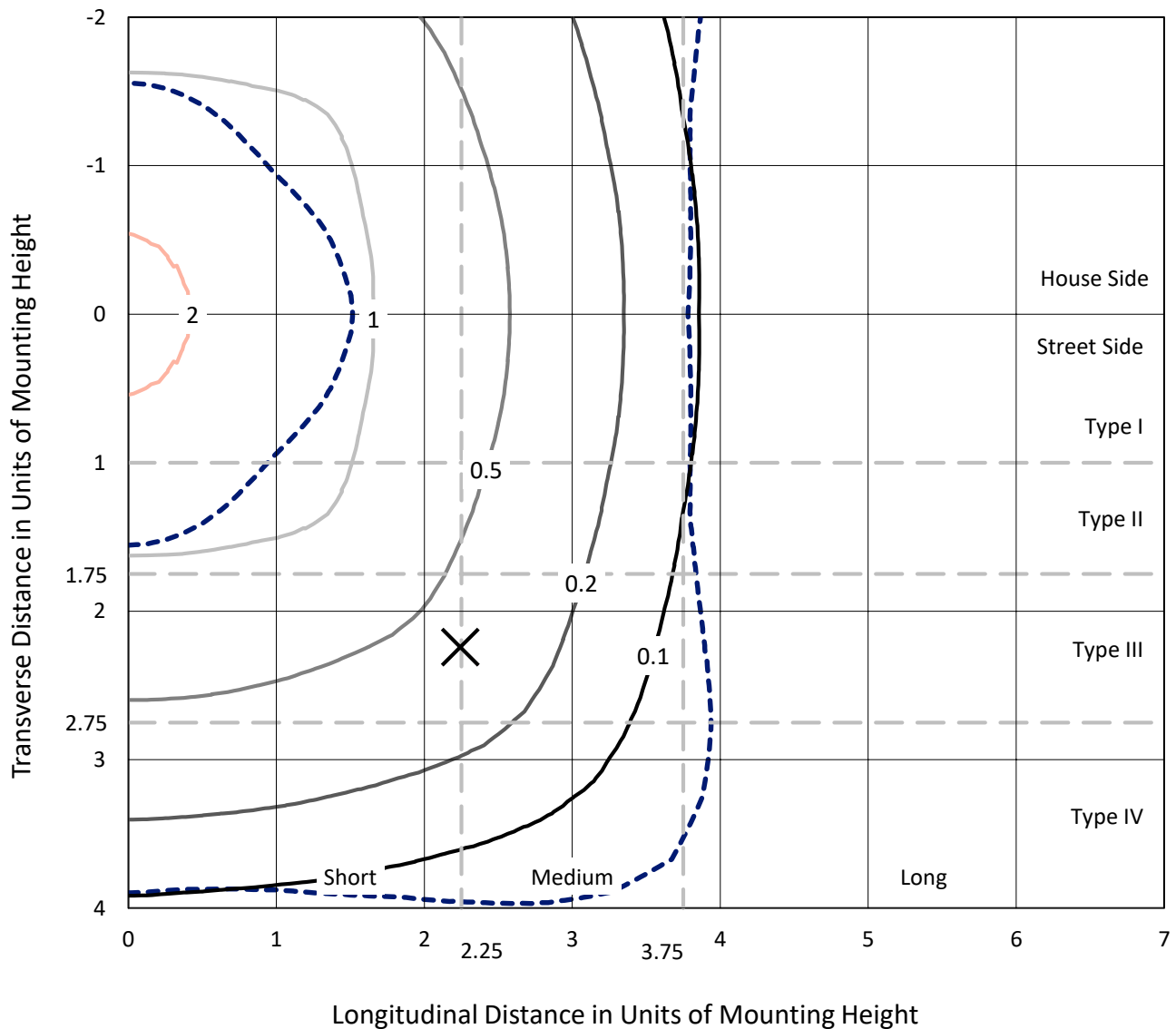


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

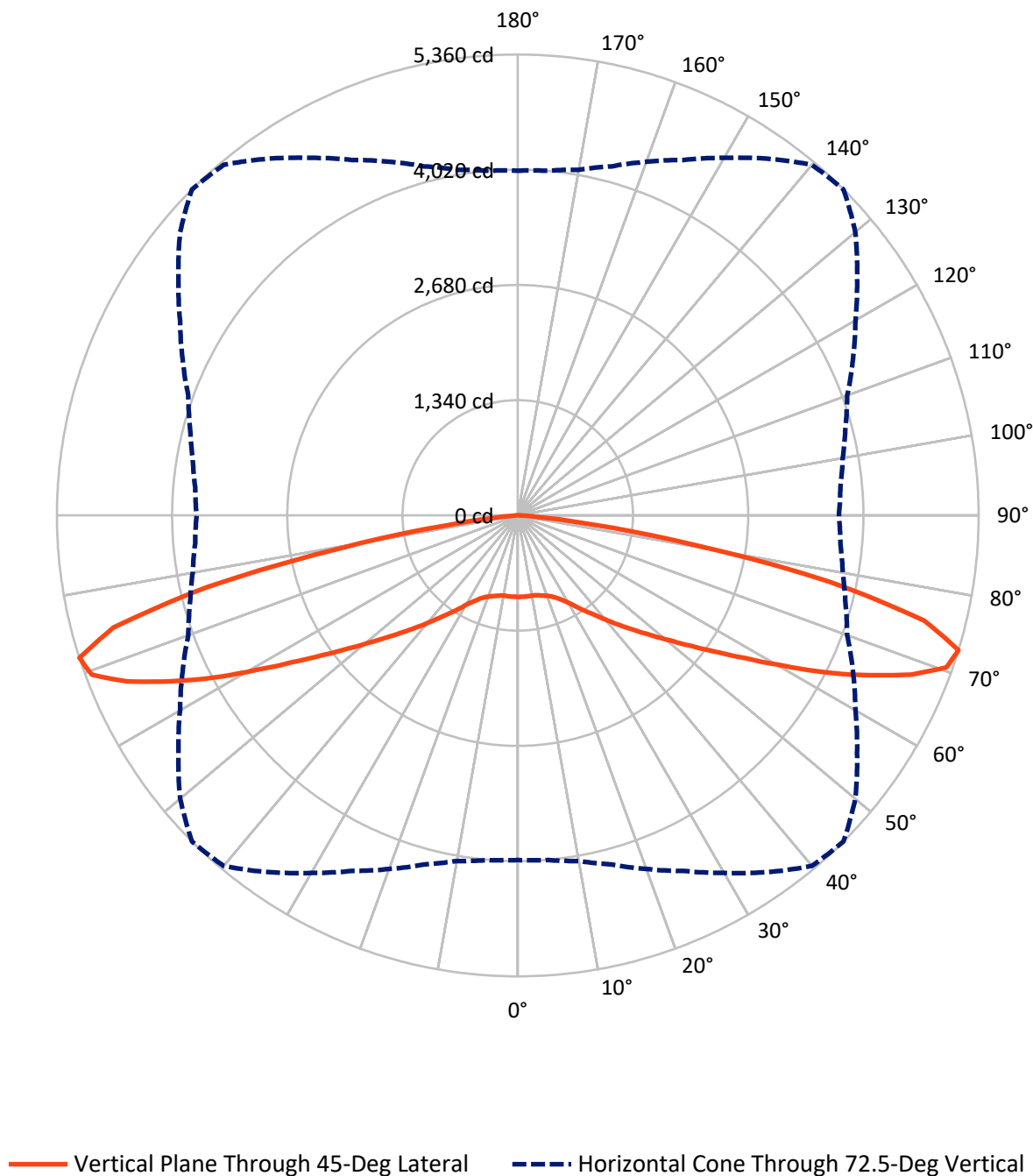


Based on 20 foot mounting height. Maximum calculated value = 2.4 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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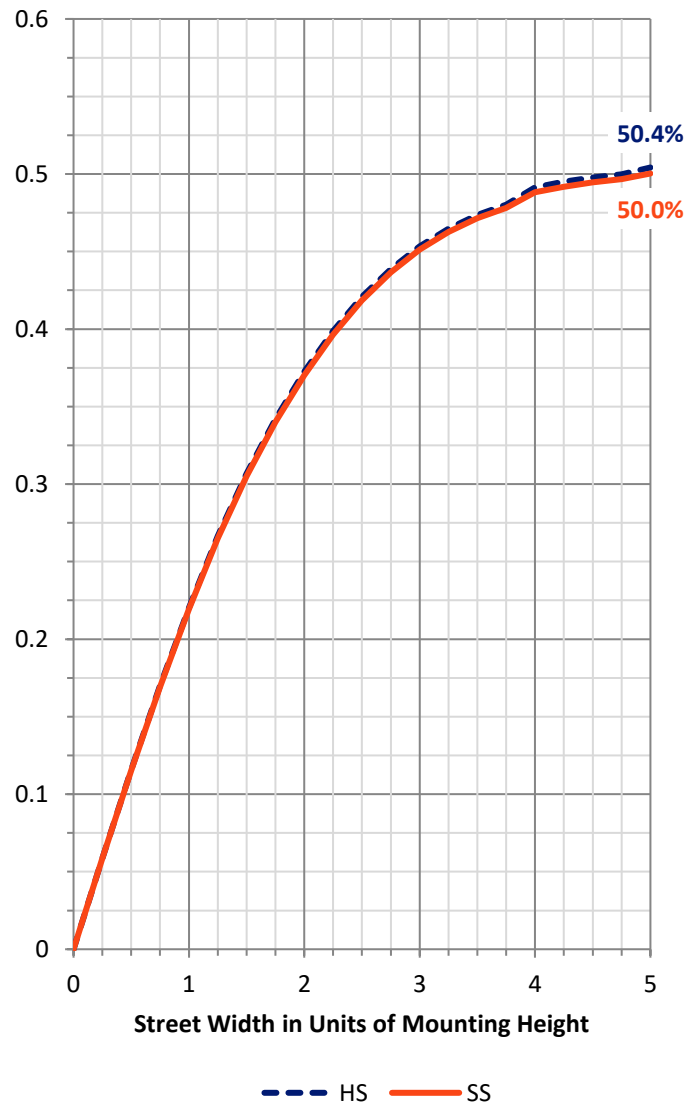
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6692.6	0.0	6692.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6692.6	0.0	6692.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	13385.3	0.0	13385.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	0.7
10°-20°	274.9	2.1
20°-30°	502.3	3.8
30°-40°	866.1	6.5
40°-50°	1480.6	11.1
50°-60°	2399.9	17.9
60°-70°	3981.4	29.7
70°-80°	3506.7	26.2
80°-90°	282.7	2.1
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°	13385.3	100.0
0°-180°	13385.3	100.0

Coefficient of Utilization



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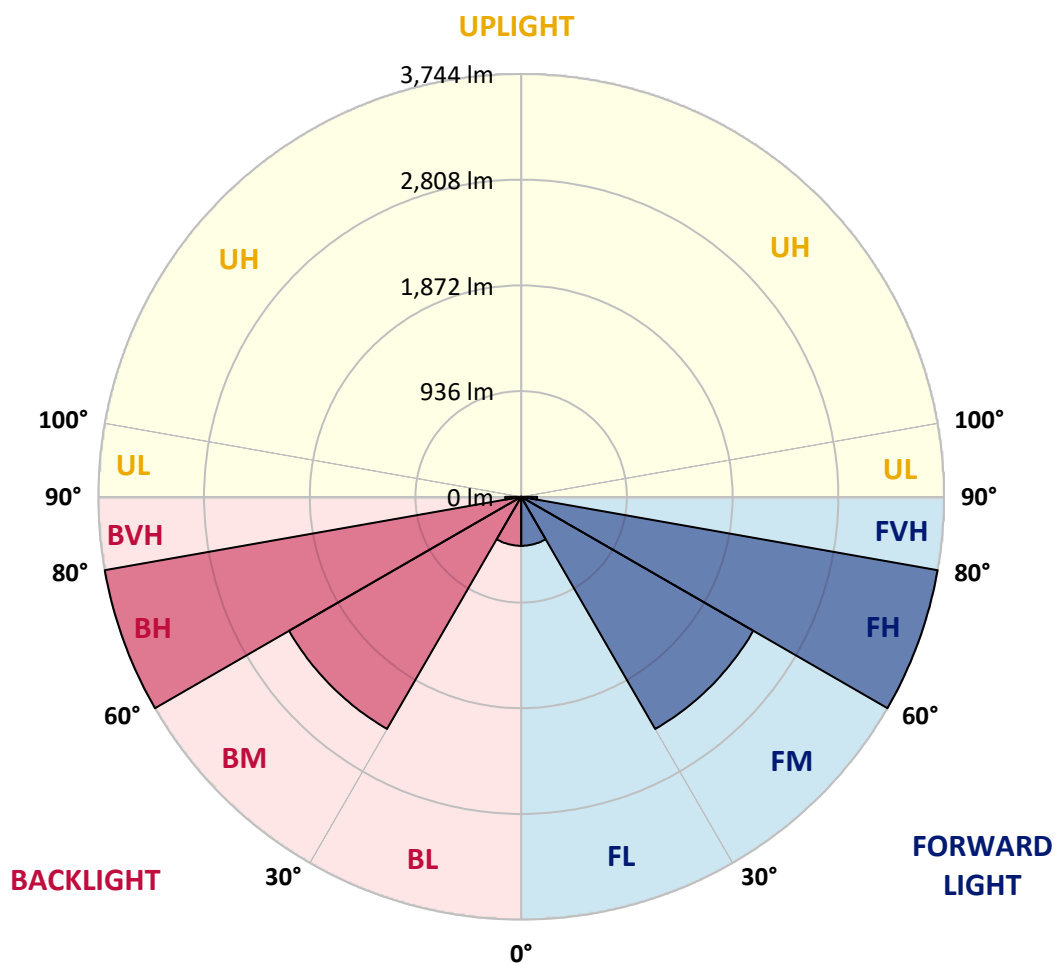
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.9	3.2			
FM	(30°-60°)	2373.4	17.7			
FH	(60°-80°)	3744.1	28.0			G2/5000
FVH	(80°-90°)	141.4	1.1			G2/225
BL	(0°-30°)	433.9	3.2	B1/500		
BM	(30°-60°)	2373.4	17.7	B2/2500		
BH	(60°-80°)	3744.1	28.0	B4/5000		G2/5000
BVH	(80°-90°)	141.4	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	947.9	947.9	947.9	947.9	947.9	947.9	947.9	947.9	947.9	947.9	947.9
2.5°	947.9	948.5	949.1	948.5	948.5	947.9	947.3	947.9	947.3	946.0	946.6
5°	950.9	952.2	952.2	950.9	951.5	950.9	949.7	950.3	949.1	947.3	947.3
7.5°	954.6	955.2	955.2	954.0	954.6	953.4	952.2	951.5	950.3	947.9	946.0
10°	960.1	960.8	960.1	958.9	958.9	957.1	954.0	952.8	950.3	946.6	944.8
12.5°	966.3	966.9	966.3	965.1	964.4	961.4	958.9	957.1	955.2	952.2	949.1
15°	974.9	976.1	974.9	972.4	970.6	968.1	966.9	967.5	968.1	965.7	962.6
17.5°	990.8	991.4	989.6	984.1	981.6	979.2	979.2	980.4	982.2	981.0	977.9
20°	1020.3	1018.4	1014.2	1007.4	1004.3	1000.0	999.4	1000.0	1000.0	999.4	997.0
22.5°	1057.1	1055.9	1050.4	1041.8	1037.5	1035.0	1031.3	1028.3	1027.7	1025.8	1023.4
25°	1101.4	1100.8	1094.0	1086.7	1083.6	1080.5	1077.5	1073.2	1069.4	1065.1	1062.6
27.5°	1157.9	1155.4	1145.6	1141.9	1137.6	1135.8	1131.5	1126.6	1123.5	1118.0	1114.9
30°	1219.9	1219.9	1211.9	1210.7	1210.7	1206.4	1201.5	1192.9	1187.3	1181.8	1180.0
32.5°	1281.9	1282.5	1274.5	1276.9	1278.8	1281.9	1283.1	1280.0	1276.3	1275.7	1272.0
35°	1371.5	1369.0	1361.0	1362.9	1362.3	1361.6	1361.6	1368.4	1369.6	1370.9	1363.5
37.5°	1482.6	1482.6	1474.6	1474.6	1470.9	1467.2	1462.3	1466.6	1473.4	1475.2	1470.3
40°	1609.7	1614.0	1604.2	1603.6	1604.8	1593.1	1587.6	1594.4	1598.7	1606.0	1600.5
42.5°	1759.5	1756.4	1746.6	1745.4	1738.6	1734.9	1730.0	1735.5	1742.3	1747.2	1749.0
45°	1903.1	1900.6	1889.6	1889.6	1882.8	1879.8	1882.2	1891.4	1894.5	1901.3	1908.0
47.5°	2045.0	2041.9	2034.5	2037.6	2038.2	2043.8	2051.7	2060.3	2068.9	2078.1	2081.2
50°	2189.8	2190.4	2182.5	2189.8	2199.0	2214.4	2235.9	2250.0	2267.8	2279.4	2283.1
52.5°	2321.8	2324.2	2332.8	2350.0	2368.5	2398.6	2435.4	2469.8	2499.3	2518.9	2517.7
55°	2480.2	2483.9	2504.8	2534.3	2564.3	2609.8	2664.4	2725.1	2774.2	2802.6	2784.8
57.5°	2682.8	2690.8	2714.1	2754.0	2798.9	2857.8	2932.7	3024.1	3100.3	3138.3	3109.5
60°	2960.9	2965.8	2994.1	3038.3	3092.3	3165.3	3265.5	3388.2	3495.6	3546.0	3512.8
62.5°	3327.5	3336.7	3359.4	3404.2	3459.4	3542.3	3664.5	3818.0	3951.8	4021.7	3946.9
65°	3765.2	3794.6	3813.7	3859.1	3910.6	3998.4	4126.2	4290.7	4434.3	4480.3	4393.8
67.5°	4198.6	4224.4	4257.5	4309.7	4361.9	4460.7	4579.2	4738.8	4896.6	4938.4	4803.9
70°	4388.3	4403.0	4454.5	4525.8	4625.9	4742.5	4879.4	5058.7	5253.9	5288.2	5117.6
72.5°	4008.2	4023.0	4080.8	4201.7	4376.0	4561.4	4800.2	5063.6	5321.4	5360.2	5125.0
75°	3031.5	3007.6	3092.9	3253.2	3488.3	3746.8	4080.8	4458.2	4830.9	4879.4	4598.9
77.5°	1566.8	1563.7	1628.1	1827.0	2107.6	2401.7	2769.3	3196.0	3560.7	3708.1	3479.7
80°	441.4	446.3	477.0	575.8	739.8	952.2	1239.5	1639.2	1937.6	2089.8	1962.1
82.5°	173.1	186.6	198.2	216.8	238.2	269.5	359.8	535.3	718.3	858.3	703.0
85°	62.0	66.3	93.9	111.1	112.9	119.1	135.6	158.4	190.9	227.8	187.2
87.5°	23.3	25.8	30.1	49.7	49.1	44.8	54.6	57.1	43.0	39.3	48.5
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°	947.9	947.9	947.9	947.9	947.9	947.9	947.9	947.9
2.5°	945.4	946.0	946.0	946.6	947.3	947.3	948.5	948.5
5°	946.0	946.0	944.8	945.4	944.8	944.8	945.4	945.4
7.5°	944.8	944.2	943.0	942.3	941.1	941.1	941.1	941.1
10°	943.0	942.3	941.1	940.5	939.9	939.9	939.9	939.9
12.5°	947.9	946.0	944.8	944.2	944.2	944.2	944.2	944.2
15°	960.8	956.5	953.4	953.4	954.0	955.2	955.2	956.5
17.5°	976.7	971.8	968.7	966.3	967.5	969.3	970.6	971.8
20°	995.7	993.3	989.0	986.5	986.5	989.0	990.2	990.8
22.5°	1022.1	1020.3	1018.4	1015.4	1015.4	1016.6	1019.1	1019.1
25°	1061.4	1060.2	1059.0	1056.5	1055.9	1055.9	1057.1	1058.3
27.5°	1110.6	1111.2	1110.0	1109.4	1107.5	1106.9	1108.8	1108.2
30°	1176.3	1179.4	1182.4	1180.0	1176.9	1175.1	1173.2	1170.8
32.5°	1265.3	1261.6	1259.2	1254.9	1249.3	1244.4	1240.7	1236.4
35°	1349.4	1343.2	1340.8	1344.5	1343.9	1340.8	1336.5	1332.8
37.5°	1452.5	1451.3	1452.5	1459.2	1458.0	1461.1	1452.5	1451.9
40°	1582.7	1583.9	1592.5	1600.5	1604.8	1609.1	1604.2	1599.3
42.5°	1733.7	1733.1	1736.2	1747.2	1754.6	1759.5	1749.0	1747.8
45°	1893.3	1889.0	1891.4	1900.6	1908.0	1913.5	1901.9	1901.9
47.5°	2068.9	2061.6	2053.6	2064.0	2068.3	2072.0	2062.8	2059.7
50°	2264.7	2249.4	2232.2	2236.5	2236.5	2235.2	2223.6	2223.0
52.5°	2489.5	2461.2	2429.9	2418.3	2411.5	2404.1	2383.9	2374.1
55°	2747.9	2705.5	2656.4	2626.3	2610.4	2590.1	2556.4	2547.1
57.5°	3049.9	2983.6	2898.9	2862.1	2826.5	2793.4	2755.8	2745.4
60°	3407.9	3310.3	3197.8	3129.7	3091.1	3059.1	3020.5	3018.6
62.5°	3806.9	3652.9	3525.7	3464.3	3436.1	3407.9	3371.0	3375.9
65°	4212.7	4051.8	3932.7	3883.0	3856.6	3833.3	3796.5	3802.0
67.5°	4613.0	4465.0	4334.2	4283.3	4253.8	4224.4	4191.2	4196.8
70°	4900.2	4716.7	4569.4	4456.4	4385.8	4306.0	4254.5	4241.6
72.5°	4818.0	4535.0	4301.1	4077.1	3945.6	3838.8	3766.4	3735.1
75°	4169.8	3783.0	3482.1	3207.1	3052.4	2926.6	2835.1	2777.9
77.5°	3096.6	2661.9	2306.4	1989.7	1739.2	1571.0	1452.5	1375.8
80°	1695.0	1289.2	942.3	662.5	486.8	404.6	357.3	334.6
82.5°	527.9	340.7	251.1	216.8	201.3	192.7	178.6	155.9
85°	168.2	147.3	136.9	130.7	124.6	108.6	74.9	68.1
87.5°	65.1	66.9	66.3	62.6	63.8	46.0	36.8	32.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)