

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: P269864

Luminaire Tested: **GAP-AF-02-LED-U-RW-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24166)
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-RW-7027-1200
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12102.6 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 129
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

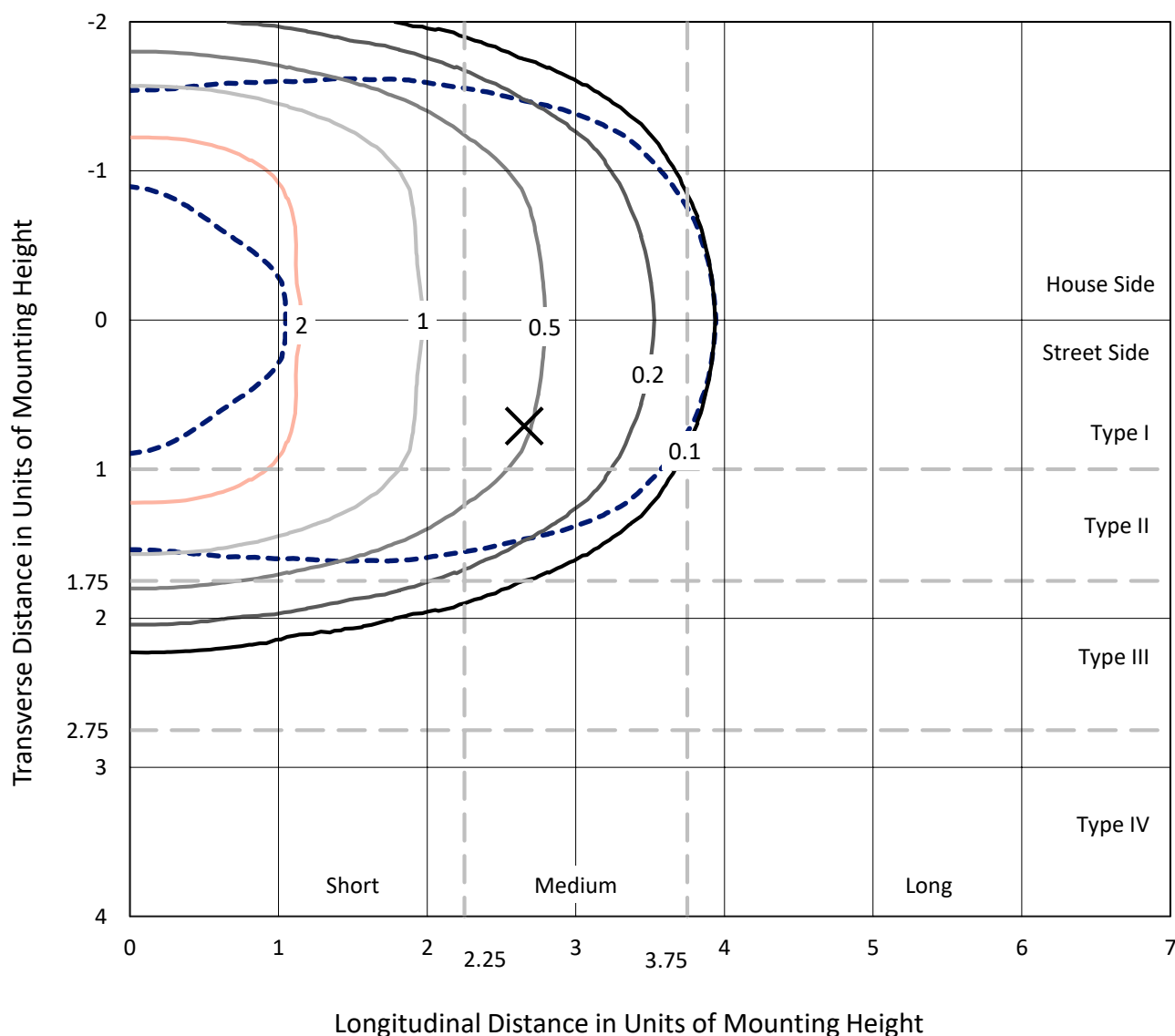


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

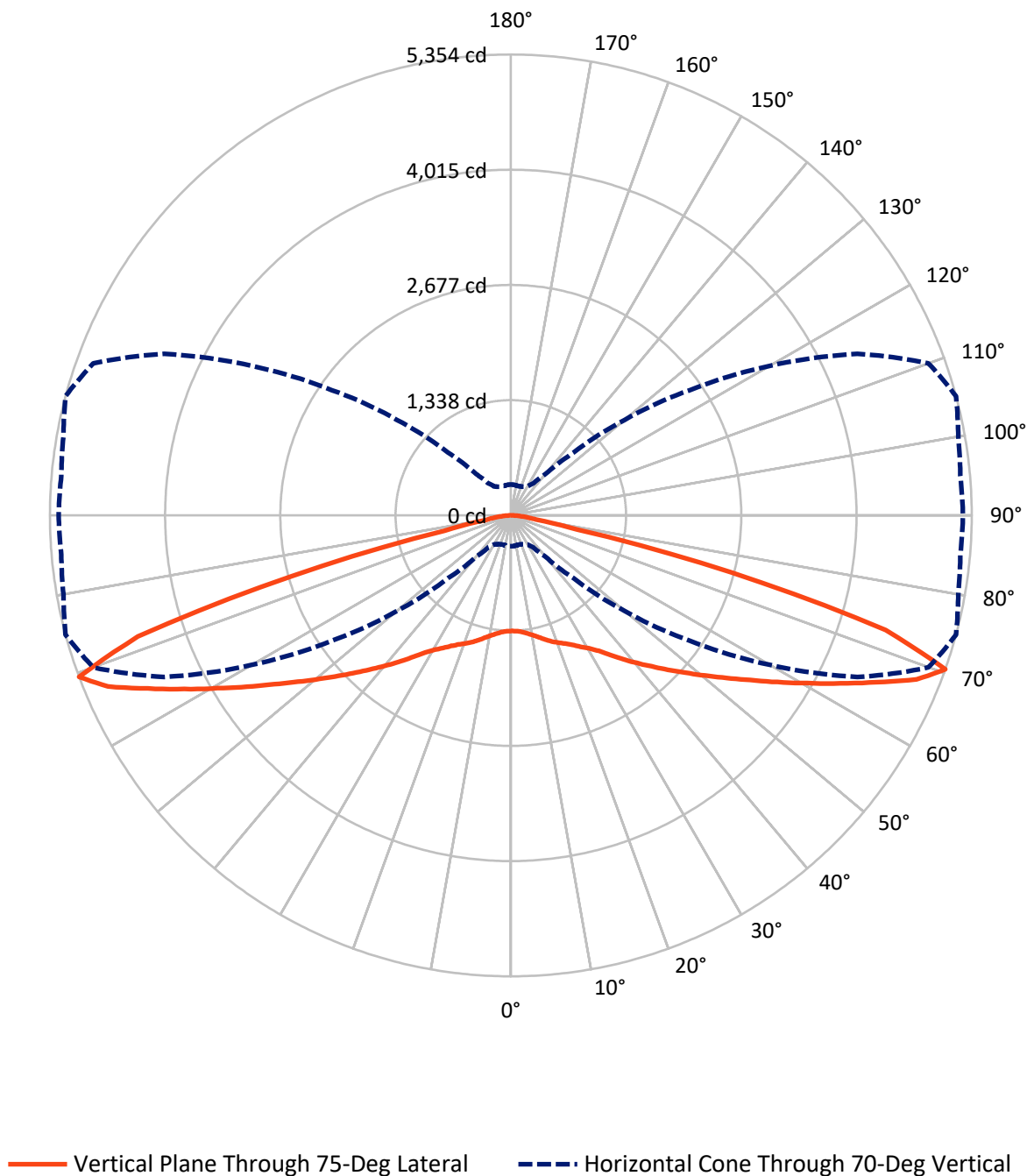


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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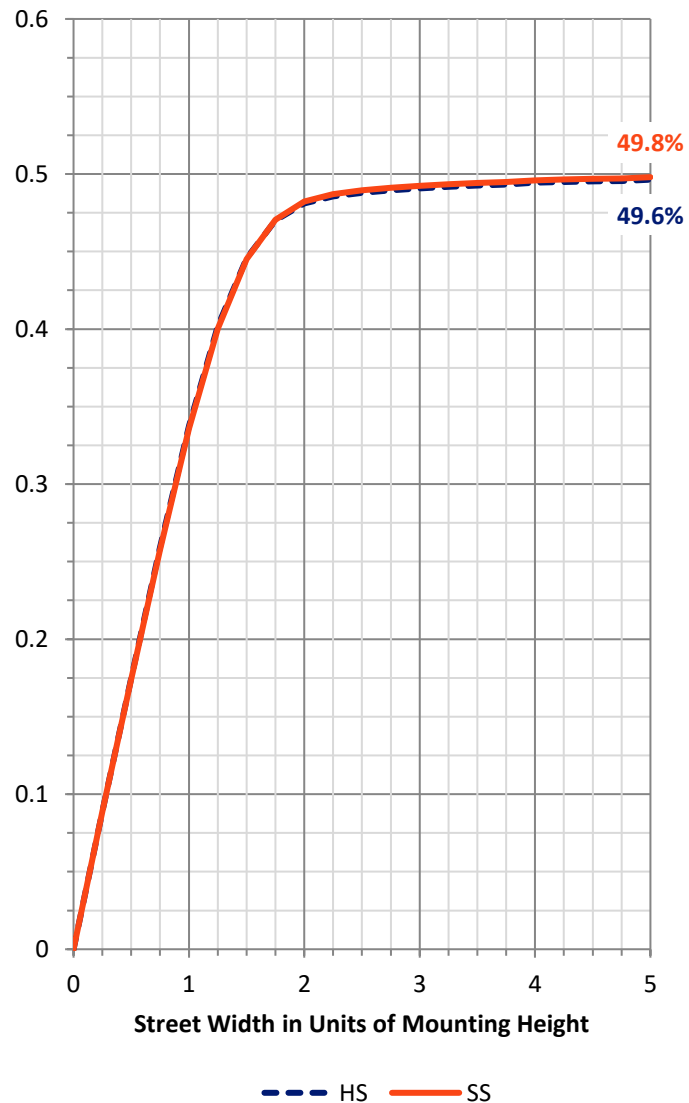
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6051.3	0.0	6051.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6051.3	0.0	6051.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	12102.6	0.0	12102.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.8	1.1
10°-20°	400.1	3.3
20°-30°	753.0	6.2
30°-40°	1333.4	11.0
40°-50°	2229.8	18.4
50°-60°	3107.2	25.7
60°-70°	2881.5	23.8
70°-80°	1148.4	9.5
80°-90°	120.7	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°	12102.6	100.0
0°-180°	12102.6	100.0

Coefficient of Utilization



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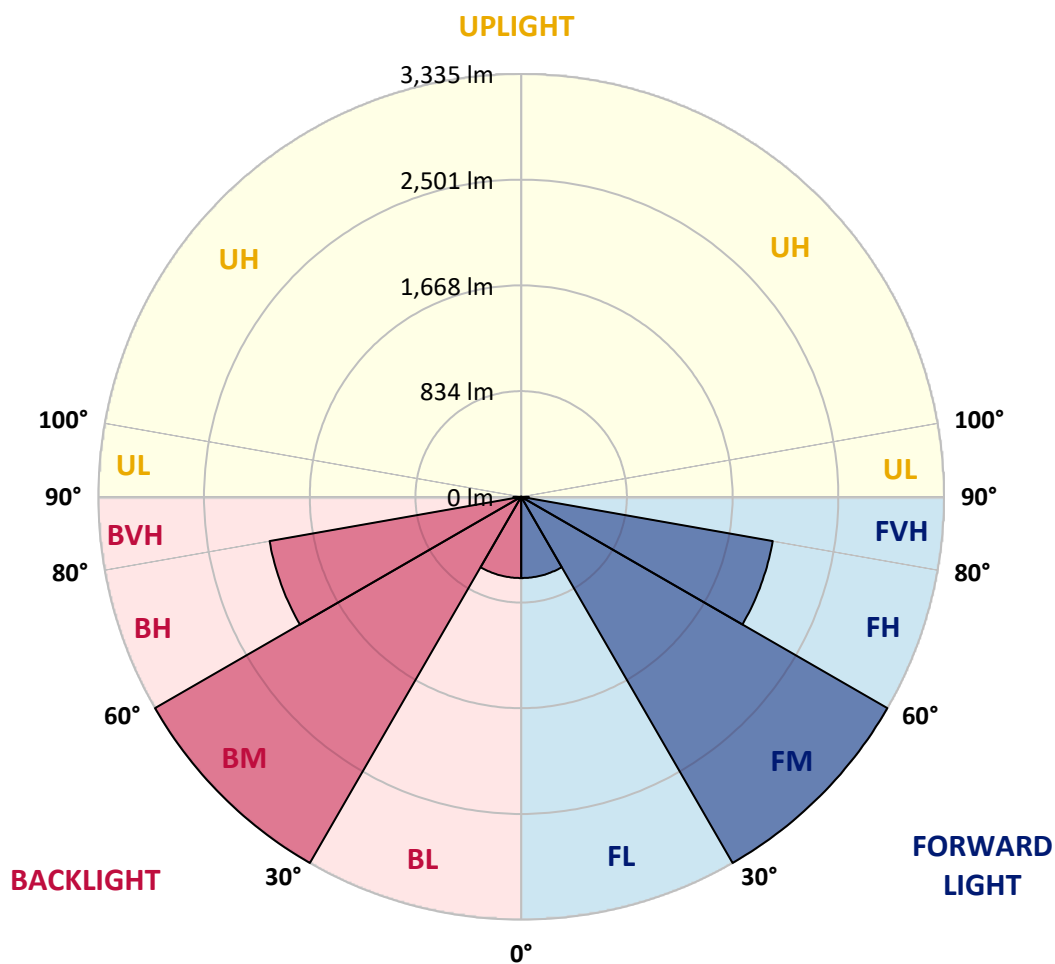
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	640.9	5.3			
FM	(30°-60°)	3335.2	27.6			
FH	(60°-80°)	2014.9	16.6			G2/5000
FVH	(80°-90°)	60.4	0.5			G1/100
BL	(0°-30°)	640.9	5.3	B2/1000		
BM	(30°-60°)	3335.2	27.6	B3/5000		
BH	(60°-80°)	2014.9	16.6	B3/2500		G2/5000
BVH	(80°-90°)	60.4	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4
2.5°	1340.2	1339.1	1340.2	1339.6	1340.7	1340.7	1341.9	1344.1	1344.1	1345.9	1345.3
5°	1327.1	1326.4	1328.1	1329.9	1331.6	1335.1	1338.5	1343.7	1347.5	1350.5	1353.3
7.5°	1301.3	1301.3	1303.6	1307.6	1311.5	1319.0	1327.1	1337.3	1347.5	1356.3	1363.6
10°	1280.2	1281.3	1284.1	1291.0	1297.8	1309.3	1320.1	1335.1	1349.3	1363.6	1375.0
12.5°	1267.6	1269.2	1274.3	1284.7	1296.2	1311.5	1328.1	1347.1	1363.1	1380.2	1391.7
15°	1271.6	1272.7	1280.2	1292.8	1307.6	1327.1	1349.3	1371.6	1390.4	1408.8	1424.3
17.5°	1293.9	1295.5	1304.1	1318.4	1334.0	1356.8	1380.8	1405.9	1429.5	1450.0	1468.9
20°	1334.0	1335.6	1346.5	1361.9	1380.2	1403.7	1427.6	1453.9	1480.2	1502.1	1523.3
22.5°	1390.4	1393.5	1403.7	1419.1	1439.8	1464.9	1493.5	1521.5	1546.6	1566.6	1585.6
25°	1464.9	1471.2	1480.9	1498.1	1519.8	1542.7	1573.6	1602.1	1626.2	1645.1	1658.8
27.5°	1570.1	1578.7	1586.1	1602.8	1623.9	1645.7	1676.4	1701.7	1724.6	1742.8	1753.1
30°	1709.7	1718.3	1725.7	1741.8	1761.1	1781.8	1811.0	1833.3	1847.5	1861.8	1861.3
32.5°	1879.0	1888.1	1891.0	1908.2	1928.2	1950.5	1976.8	1989.3	2000.9	2002.5	1992.3
35°	2068.3	2072.8	2084.3	2107.2	2130.2	2148.3	2173.5	2179.8	2179.8	2171.4	2148.3
37.5°	2275.9	2278.8	2294.8	2320.6	2344.0	2362.9	2380.1	2392.6	2386.3	2368.0	2329.8
40°	2503.5	2508.7	2531.7	2554.5	2580.8	2598.5	2616.9	2619.2	2612.9	2586.0	2533.8
42.5°	2721.0	2725.5	2748.5	2784.4	2818.8	2843.3	2860.6	2863.9	2843.9	2819.3	2754.7
45°	2908.1	2920.0	2949.8	2992.1	3041.8	3076.8	3100.2	3109.9	3092.1	3060.2	2985.2
47.5°	3056.2	3068.3	3110.6	3160.9	3222.6	3279.3	3318.1	3338.7	3334.1	3310.2	3228.2
50°	3164.8	3176.2	3222.0	3283.8	3355.9	3426.2	3492.6	3541.7	3558.9	3548.0	3473.1
52.5°	3177.5	3196.3	3250.1	3333.0	3426.9	3523.0	3617.2	3700.7	3757.4	3766.1	3710.4
55°	3001.9	3020.7	3095.0	3218.0	3357.5	3514.3	3665.4	3805.9	3917.6	3974.8	3945.5
57.5°	2587.7	2621.4	2699.8	2843.9	3049.2	3283.8	3524.6	3774.6	4001.7	4153.3	4182.4
60°	1983.1	2023.2	2102.0	2255.4	2484.2	2763.8	3085.3	3454.8	3855.9	4196.7	4400.3
62.5°	1272.1	1309.9	1392.8	1526.1	1712.6	2015.6	2360.7	2799.3	3338.1	3876.4	4361.5
65°	653.7	674.4	717.8	798.6	943.8	1170.3	1479.8	1917.3	2533.4	3197.4	3898.7
67.5°	414.1	418.2	427.9	439.4	476.6	554.9	699.1	971.8	1478.6	2171.4	2992.1
70°	358.1	358.1	353.6	351.7	356.4	367.1	389.5	453.0	624.1	1030.7	1725.7
72.5°	327.7	324.3	316.4	310.1	308.8	308.8	313.5	323.2	350.6	419.9	675.5
75°	302.0	292.3	281.3	274.1	271.1	268.2	267.6	269.4	275.2	286.0	322.6
77.5°	270.6	258.0	245.3	238.0	234.5	230.5	227.1	223.0	220.3	223.7	239.7
80°	232.8	218.5	208.8	204.3	200.9	195.0	187.7	180.7	174.5	173.4	183.1
82.5°	187.7	171.0	171.5	173.4	167.1	159.0	151.1	143.5	132.7	127.0	132.7
85°	151.5	143.0	139.0	149.8	140.8	128.6	116.2	102.9	85.8	72.0	78.3
87.5°	58.8	58.8	88.0	135.6	121.8	99.5	85.2	72.7	45.2	34.9	35.5
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°	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4	1342.4
2.5°	1344.8	1345.9	1345.3	1344.8	1344.8	1344.1	1344.8	1344.8
5°	1355.1	1357.9	1357.9	1359.0	1359.0	1359.7	1360.3	1359.7
7.5°	1370.5	1375.7	1379.1	1383.1	1383.7	1384.2	1385.4	1384.2
10°	1385.9	1396.2	1403.7	1411.1	1414.6	1415.6	1416.8	1416.8
12.5°	1405.4	1419.7	1432.8	1446.0	1452.3	1455.8	1455.8	1457.9
15°	1437.4	1451.8	1467.1	1484.9	1495.8	1501.4	1503.3	1503.3
17.5°	1482.7	1495.1	1508.3	1525.5	1539.2	1546.6	1548.4	1547.8
20°	1535.3	1547.2	1554.6	1565.6	1577.6	1586.1	1588.5	1588.5
22.5°	1595.3	1602.1	1603.2	1606.7	1616.4	1627.9	1632.9	1634.1
25°	1661.7	1663.3	1658.8	1658.8	1665.1	1676.0	1681.1	1681.6
27.5°	1747.5	1738.8	1727.4	1723.4	1727.4	1739.9	1746.2	1748.6
30°	1854.5	1833.8	1807.5	1793.1	1791.0	1807.5	1819.0	1820.7
32.5°	1976.8	1947.0	1912.1	1882.9	1875.7	1885.8	1899.6	1898.9
35°	2122.1	2086.7	2044.4	2007.2	1989.9	2000.3	2019.7	2021.9
37.5°	2289.7	2243.3	2194.6	2147.8	2121.0	2123.9	2144.4	2151.4
40°	2476.7	2416.7	2355.4	2292.6	2254.2	2246.8	2272.0	2275.9
42.5°	2676.9	2599.8	2522.5	2444.6	2395.5	2384.0	2413.2	2411.5
45°	2890.2	2791.9	2701.6	2615.8	2557.4	2540.1	2564.2	2564.2
47.5°	3119.6	2998.5	2890.8	2793.5	2730.0	2705.5	2728.4	2730.0
50°	3362.7	3234.1	3107.6	2999.5	2923.4	2892.1	2921.7	2926.3
52.5°	3604.7	3479.4	3351.8	3228.2	3136.3	3098.0	3132.2	3147.1
55°	3850.0	3727.1	3605.3	3484.5	3375.3	3330.1	3366.8	3385.6
57.5°	4109.1	3995.3	3879.2	3757.4	3652.1	3581.8	3620.7	3646.0
60°	4413.0	4315.6	4194.9	4060.6	3954.2	3882.7	3905.0	3927.3
62.5°	4653.2	4690.9	4588.5	4433.0	4296.2	4204.6	4226.4	4249.9
65°	4537.0	4924.2	5015.2	4857.9	4668.6	4526.2	4516.9	4529.1
67.5°	3792.4	4544.4	5093.0	5242.9	5084.4	4886.5	4849.9	4867.6
70°	2536.8	3473.7	4441.5	5162.2	5353.9	5277.3	5241.3	5252.0
72.5°	1218.3	2023.2	3013.3	3971.3	4554.8	4822.6	4908.2	4950.0
75°	445.6	803.1	1452.3	2188.5	2642.1	3058.4	3330.1	3441.0
77.5°	268.9	324.3	463.9	698.4	791.0	885.5	848.9	867.1
80°	199.1	224.8	254.5	286.0	296.4	296.4	284.9	275.7
82.5°	139.5	156.1	170.5	187.7	192.1	183.7	151.1	120.2
85°	89.8	97.2	103.6	114.4	111.5	106.4	71.4	63.5
87.5°	41.2	46.9	49.1	54.3	52.0	49.8	35.5	29.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)