

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: P192750

Luminaire Tested: **GAN-AF-02-LED-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192750
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: GAN-AF-02-LED-U-RW-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12040.4 lumens
Efficiency: N/A
Efficacy: 106.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - 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

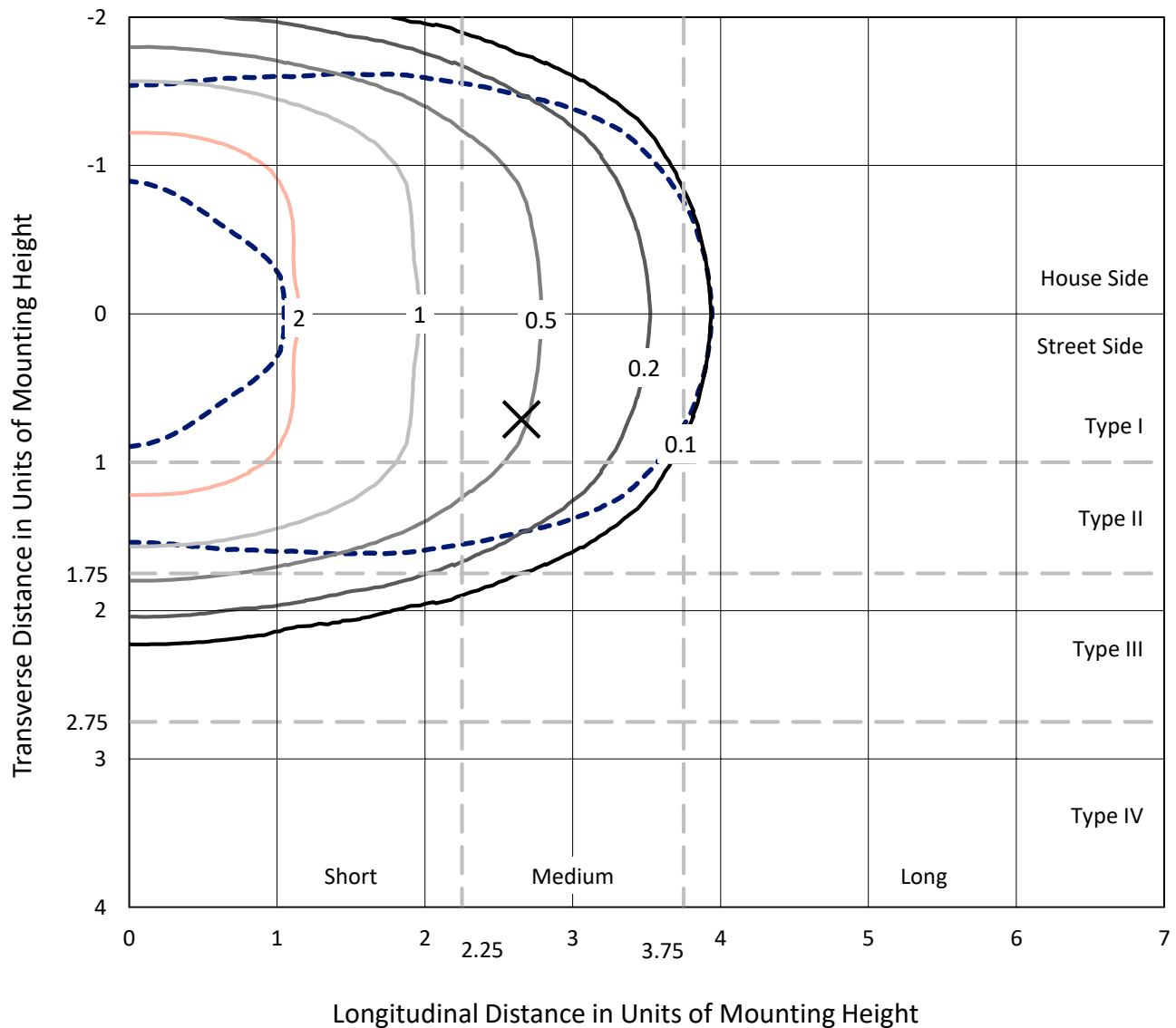


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

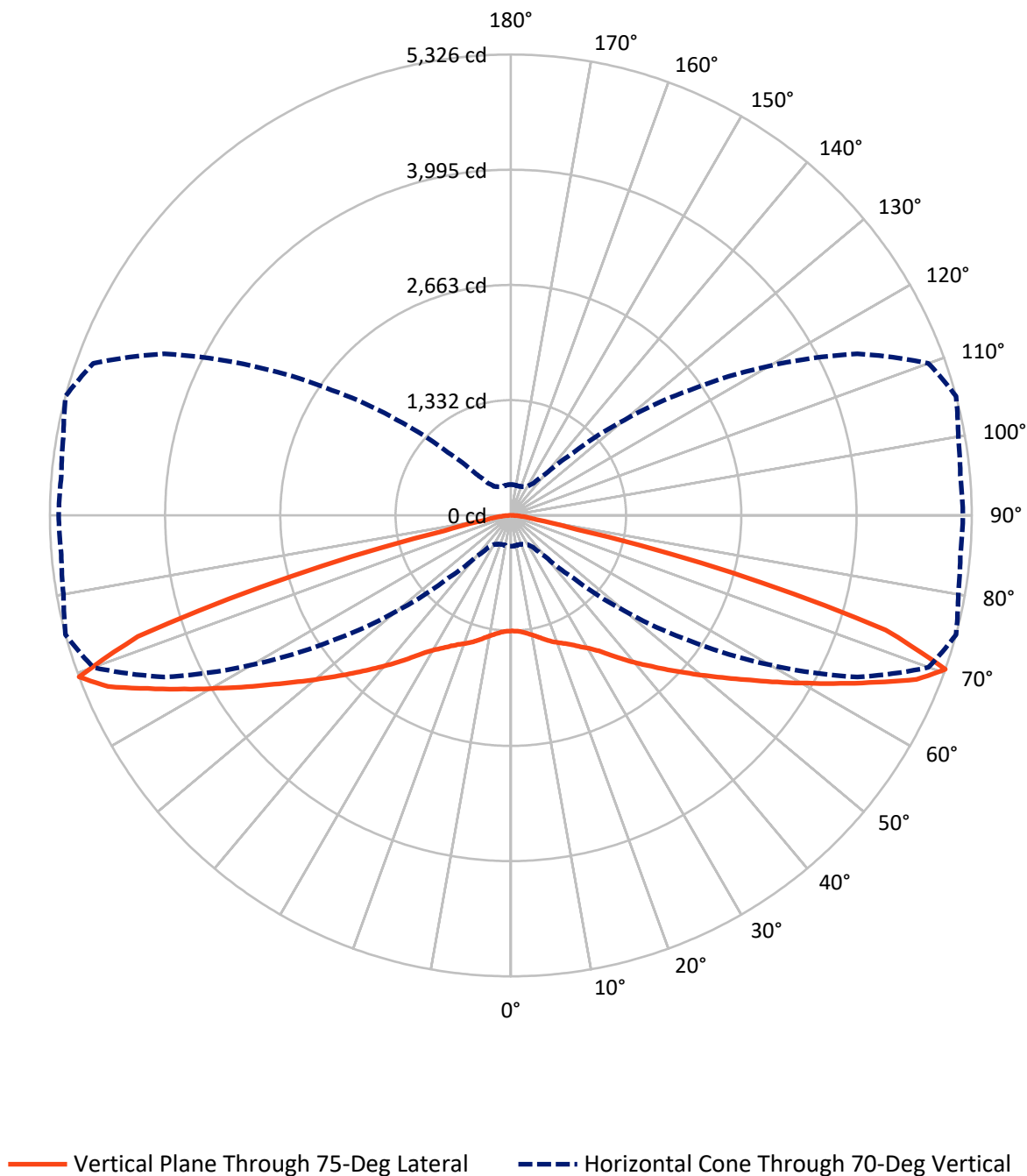


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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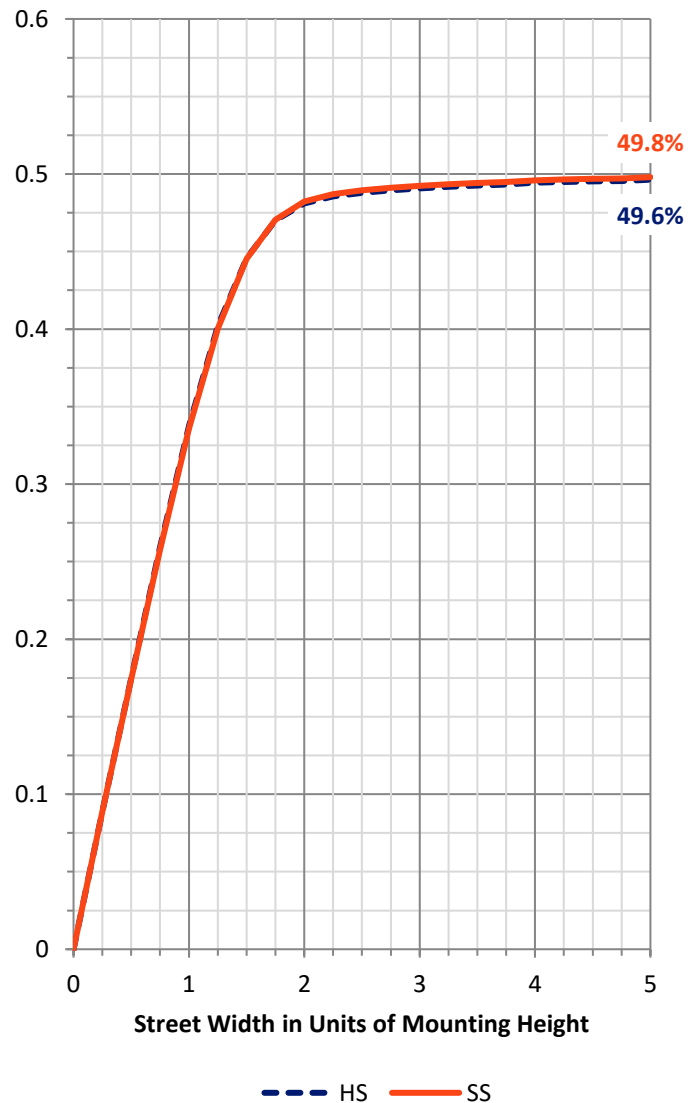
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6020.2	0.0	6020.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6020.2	0.0	6020.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	12040.4	0.0	12040.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.1	1.1
10°-20°	398.0	3.3
20°-30°	749.1	6.2
30°-40°	1326.5	11.0
40°-50°	2218.3	18.4
50°-60°	3091.2	25.7
60°-70°	2866.6	23.8
70°-80°	1142.4	9.5
80°-90°	120.1	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°	12040.4	100.0
0°-180°	12040.4	100.0

Coefficient of Utilization



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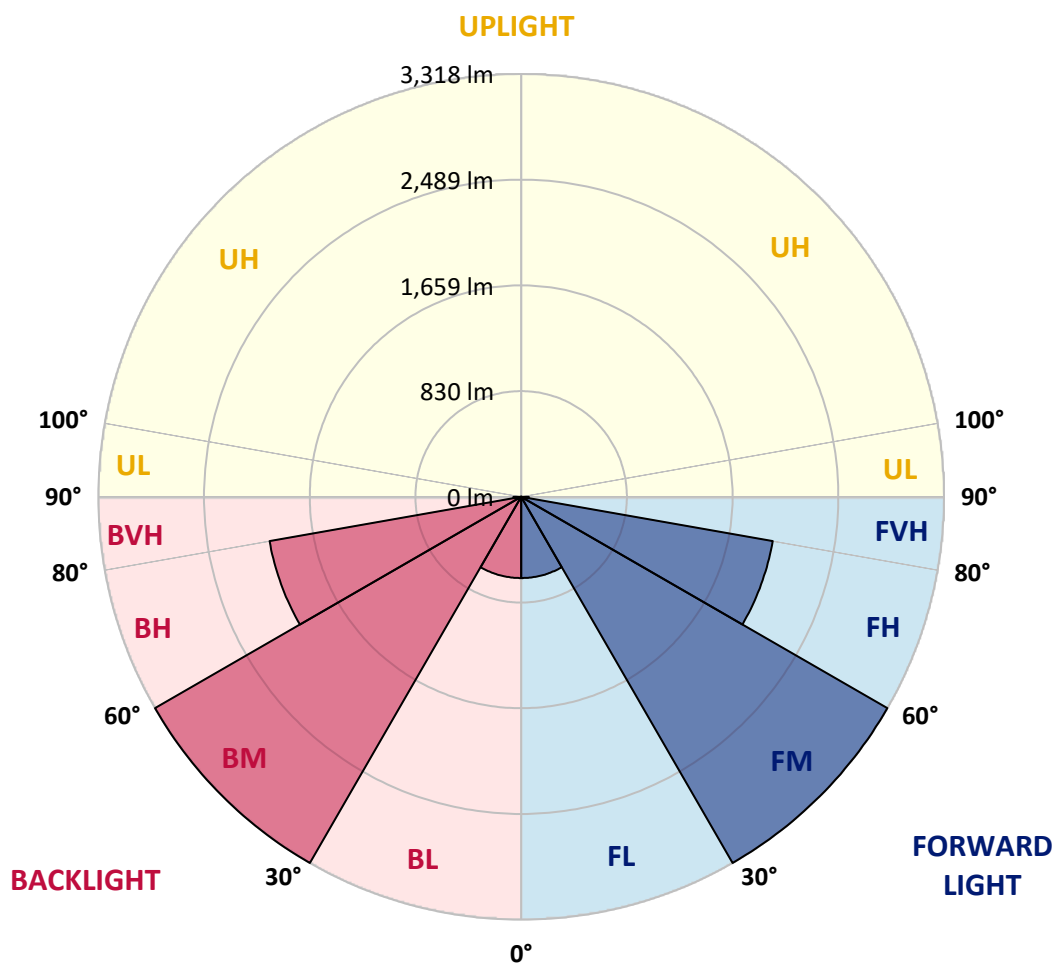
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	637.6	5.3			
FM	(30°-60°)	3318.0	27.6			
FH	(60°-80°)	2004.5	16.6			G2/5000
FVH	(80°-90°)	60.0	0.5			G1/100
BL	(0°-30°)	637.6	5.3	B2/1000		
BM	(30°-60°)	3318.0	27.6	B3/5000		
BH	(60°-80°)	2004.5	16.6	B3/2500		G2/5000
BVH	(80°-90°)	60.0	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°	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5
2.5°	1333.3	1332.1	1333.3	1332.8	1333.8	1333.8	1335.0	1337.3	1337.3	1339.0	1338.4
5°	1320.2	1319.7	1321.4	1323.0	1324.8	1328.1	1331.6	1336.7	1340.7	1343.6	1346.4
7.5°	1294.6	1294.6	1296.9	1300.8	1304.9	1312.2	1320.2	1330.4	1340.7	1349.3	1356.6
10°	1273.5	1274.6	1277.6	1284.4	1291.2	1302.6	1313.4	1328.1	1342.4	1356.6	1368.0
12.5°	1261.0	1262.7	1267.9	1278.2	1289.5	1304.9	1321.4	1340.1	1356.0	1373.1	1384.6
15°	1265.0	1266.1	1273.5	1286.1	1300.8	1320.2	1342.4	1364.5	1383.3	1401.6	1417.0
17.5°	1287.2	1288.9	1297.5	1311.6	1327.1	1349.8	1373.7	1398.7	1422.0	1442.5	1461.4
20°	1327.1	1328.7	1339.5	1355.0	1373.1	1396.5	1420.4	1446.5	1472.7	1494.3	1515.4
22.5°	1383.3	1386.2	1396.5	1411.8	1432.3	1457.3	1485.8	1513.7	1538.7	1558.6	1577.3
25°	1457.3	1463.6	1473.3	1490.3	1511.9	1534.8	1565.4	1593.9	1617.8	1636.6	1650.3
27.5°	1562.1	1570.6	1577.9	1594.4	1615.5	1637.1	1667.9	1693.0	1715.7	1734.0	1744.1
30°	1700.8	1709.5	1716.8	1732.8	1752.1	1772.6	1801.5	1823.7	1838.1	1852.3	1851.7
32.5°	1869.3	1878.3	1881.2	1898.4	1918.3	1940.5	1966.6	1979.1	1990.4	1992.3	1982.0
35°	2057.7	2062.3	2073.6	2096.3	2119.1	2137.3	2162.3	2168.7	2168.7	2160.0	2137.3
37.5°	2264.3	2267.1	2283.0	2308.6	2331.9	2350.7	2367.8	2380.3	2374.1	2355.8	2317.7
40°	2490.7	2495.8	2518.7	2541.4	2567.6	2585.2	2603.4	2605.8	2599.4	2572.6	2520.9
42.5°	2707.0	2711.5	2734.3	2770.2	2804.2	2828.7	2845.7	2849.3	2829.3	2804.8	2740.5
45°	2893.0	2904.9	2934.6	2976.7	3026.2	3060.9	3084.3	3093.9	3076.3	3044.4	2969.8
47.5°	3040.4	3052.3	3094.4	3144.6	3206.0	3262.4	3301.0	3321.6	3317.0	3293.1	3211.6
50°	3148.6	3159.9	3205.4	3267.0	3338.6	3408.6	3474.7	3523.5	3540.6	3529.8	3455.3
52.5°	3161.1	3179.9	3233.3	3315.8	3409.2	3504.8	3598.7	3681.7	3738.1	3746.6	3691.5
55°	2986.4	3005.1	3079.2	3201.6	3340.3	3496.2	3646.4	3786.5	3897.4	3954.3	3925.2
57.5°	2574.3	2607.9	2685.9	2829.3	3033.6	3267.0	3506.4	3755.1	3981.1	4131.8	4160.9
60°	1972.9	2012.8	2091.2	2243.7	2471.3	2749.6	3069.4	3437.1	3836.0	4175.2	4377.7
62.5°	1265.5	1303.1	1385.6	1518.2	1703.7	2005.4	2348.4	2784.9	3320.9	3856.5	4339.0
65°	650.4	671.0	714.1	794.5	939.0	1164.2	1472.2	1907.4	2520.3	3181.0	3878.6
67.5°	412.0	415.9	425.7	437.0	473.9	552.0	695.3	966.8	1470.9	2160.0	2976.7
70°	356.1	356.1	351.7	349.9	354.5	365.4	387.6	450.7	620.8	1025.4	1716.8
72.5°	326.0	322.7	314.6	308.4	307.2	307.2	311.8	321.6	348.9	417.7	672.1
75°	300.5	290.7	279.9	272.6	269.8	266.9	266.3	268.0	273.7	284.5	320.9
77.5°	269.1	256.6	244.0	236.8	233.3	229.3	225.9	221.9	219.1	222.5	238.4
80°	231.6	217.4	207.7	203.1	199.7	194.1	186.7	179.8	173.6	172.4	182.1
82.5°	186.7	170.1	170.7	172.4	166.2	158.2	150.2	142.8	131.9	126.3	131.9
85°	150.8	142.2	138.3	149.1	140.0	128.1	115.5	102.3	85.3	71.7	78.0
87.5°	58.6	58.6	87.6	134.8	121.2	99.0	84.7	72.2	44.9	34.8	35.3
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°	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5	1335.5
2.5°	1337.9	1339.0	1338.4	1337.9	1337.9	1337.3	1337.9	1337.9
5°	1348.0	1350.9	1350.9	1352.1	1352.1	1352.6	1353.1	1352.6
7.5°	1363.4	1368.6	1372.0	1376.0	1376.5	1377.1	1378.2	1377.1
10°	1378.9	1389.0	1396.5	1403.9	1407.3	1408.4	1409.6	1409.6
12.5°	1398.2	1412.4	1425.5	1438.5	1444.9	1448.2	1448.2	1450.5
15°	1429.9	1444.3	1459.6	1477.3	1488.1	1493.8	1495.4	1495.4
17.5°	1475.0	1487.4	1500.5	1517.6	1531.3	1538.7	1540.4	1539.9
20°	1527.3	1539.3	1546.7	1557.5	1569.4	1577.9	1580.2	1580.2
22.5°	1587.1	1593.9	1595.0	1598.5	1608.1	1619.5	1624.6	1625.8
25°	1653.1	1654.8	1650.3	1650.3	1656.5	1667.3	1672.4	1673.0
27.5°	1738.5	1729.9	1718.5	1714.5	1718.5	1731.0	1737.3	1739.6
30°	1844.9	1824.4	1798.2	1783.9	1781.7	1798.2	1809.6	1811.3
32.5°	1966.6	1937.0	1902.3	1873.4	1865.9	1876.2	1889.8	1889.2
35°	2111.2	2075.9	2033.8	1996.8	1979.7	1989.9	2009.3	2011.6
37.5°	2277.9	2231.8	2183.4	2136.8	2110.1	2112.8	2133.4	2140.2
40°	2464.1	2404.2	2343.4	2280.8	2242.6	2235.2	2260.2	2264.3
42.5°	2663.2	2586.2	2509.4	2432.1	2383.2	2371.8	2400.9	2399.2
45°	2875.3	2777.5	2687.7	2602.2	2544.2	2527.1	2551.1	2551.1
47.5°	3103.6	2983.0	2875.9	2779.2	2716.0	2691.6	2714.3	2716.0
50°	3345.4	3217.3	3091.6	2984.1	2908.4	2877.2	2906.8	2911.2
52.5°	3586.1	3461.6	3334.6	3211.6	3120.1	3081.9	3116.1	3131.0
55°	3830.3	3707.9	3586.8	3466.7	3358.0	3313.0	3349.5	3368.3
57.5°	4088.1	3974.9	3859.2	3738.1	3633.4	3563.4	3602.1	3627.1
60°	4390.2	4293.5	4173.3	4039.7	3933.9	3862.8	3884.9	3907.1
62.5°	4629.2	4666.8	4565.0	4410.1	4274.1	4183.1	4204.8	4228.0
65°	4513.7	4898.9	4989.5	4833.0	4644.6	4502.9	4493.9	4505.8
67.5°	3772.8	4521.0	5066.8	5215.9	5058.2	4861.4	4825.0	4842.6
70°	2523.8	3455.9	4418.7	5135.6	5326.3	5250.0	5214.2	5225.0
72.5°	1212.1	2012.8	2997.7	3951.0	4531.3	4797.7	4883.1	4924.6
75°	443.3	798.9	1444.9	2177.2	2628.4	3042.7	3313.0	3423.4
77.5°	267.4	322.7	461.5	694.8	787.0	880.8	844.5	862.7
80°	198.0	223.7	253.3	284.5	294.8	294.8	283.4	274.2
82.5°	138.9	155.3	169.6	186.7	191.2	182.7	150.2	119.5
85°	89.4	96.7	103.0	113.8	111.0	105.9	71.1	63.2
87.5°	41.0	46.7	48.9	54.1	51.8	49.5	35.3	29.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)