

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: P320885

Luminaire Tested: **GAN-SA1C-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320885
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6354 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

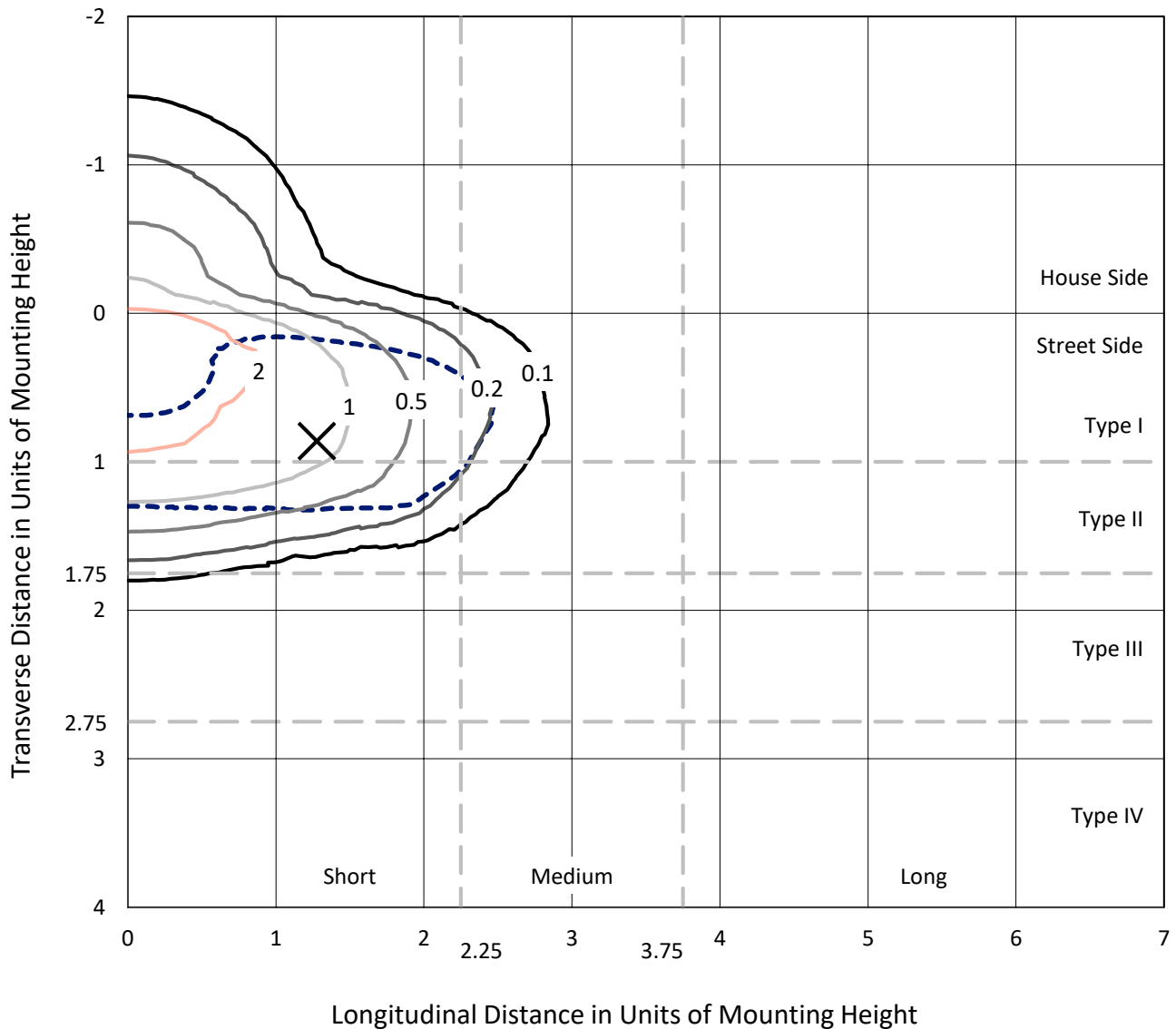
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

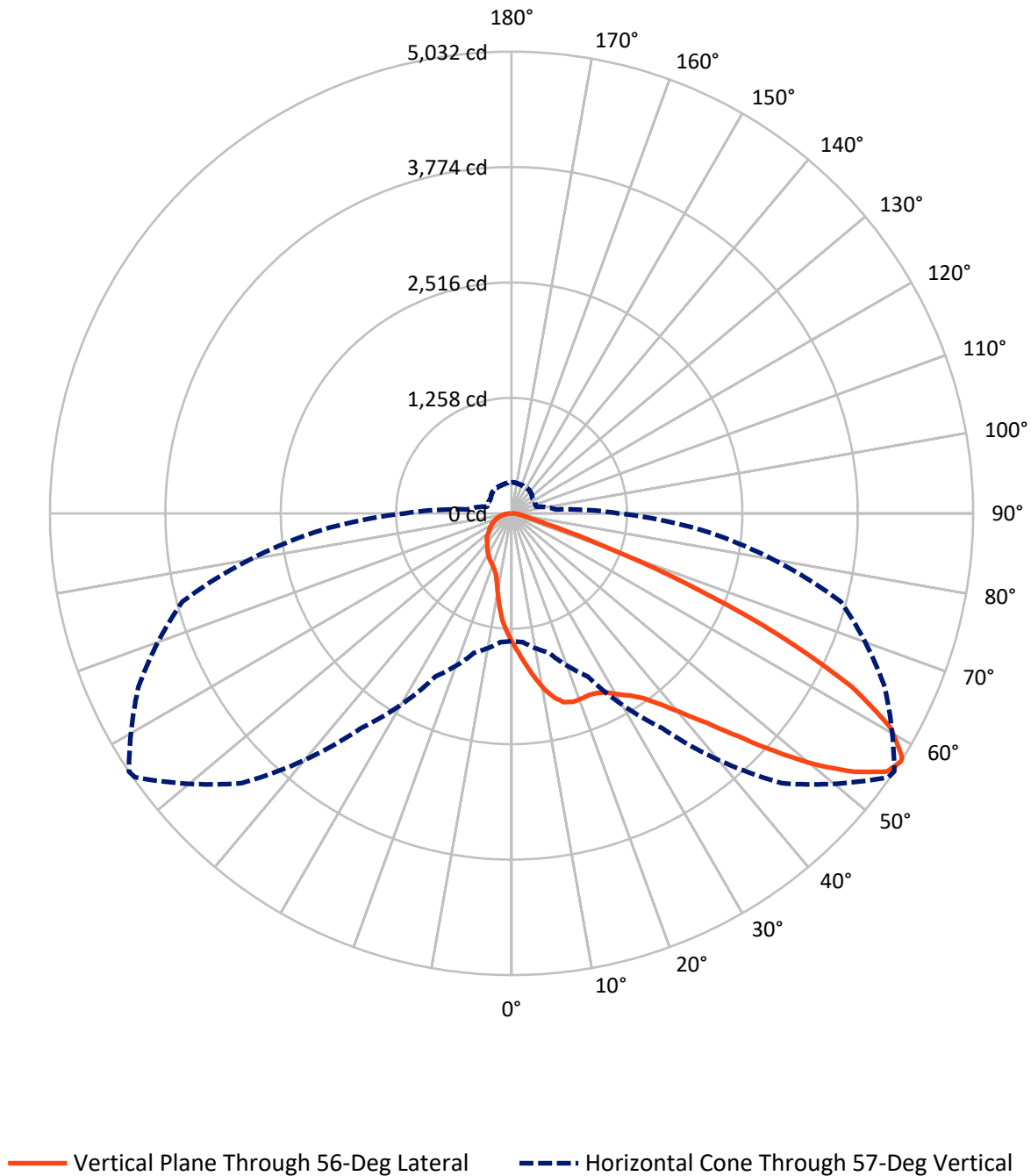
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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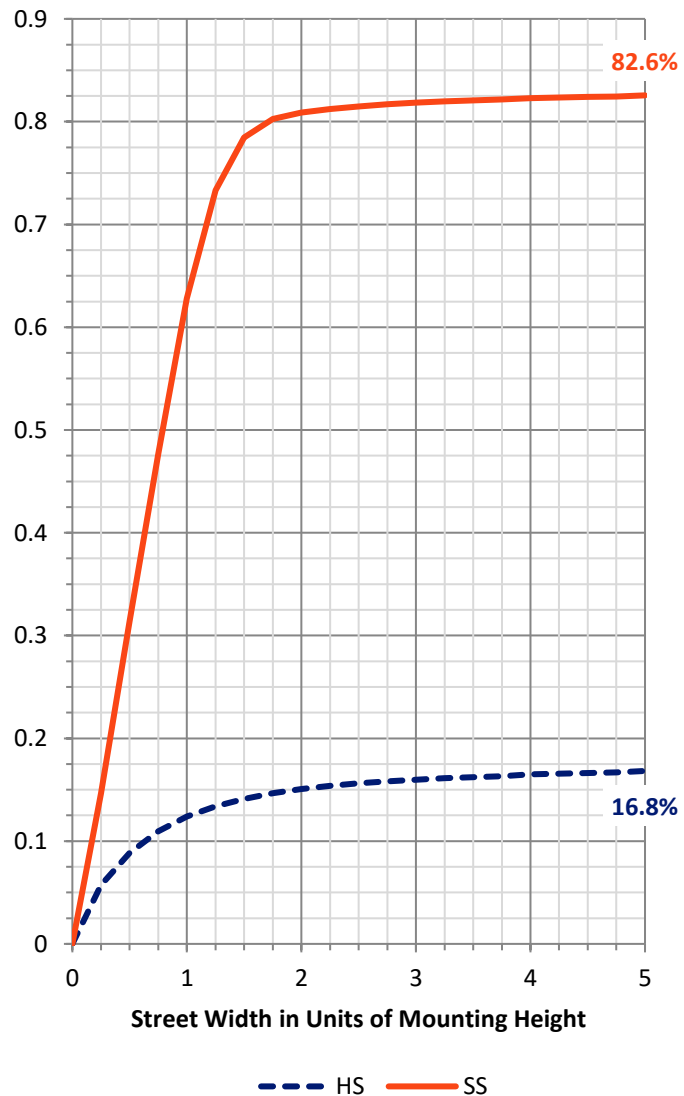
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1095.3	0.0	1095.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	5258.7	0.0	5258.7
	% Fixture	82.8	0.0	82.8
Total	Lumens	6354.0	0.0	6354.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.6	2.1
10°-20°	380.6	6.0
20°-30°	620.0	9.8
30°-40°	926.8	14.6
40°-50°	1405.7	22.1
50°-60°	1575.5	24.8
60°-70°	930.6	14.6
70°-80°	304.9	4.8
80°-90°	75.3	1.2
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°	6354.0	100.0
0°-180°	6354.0	100.0

Coefficient of Utilization



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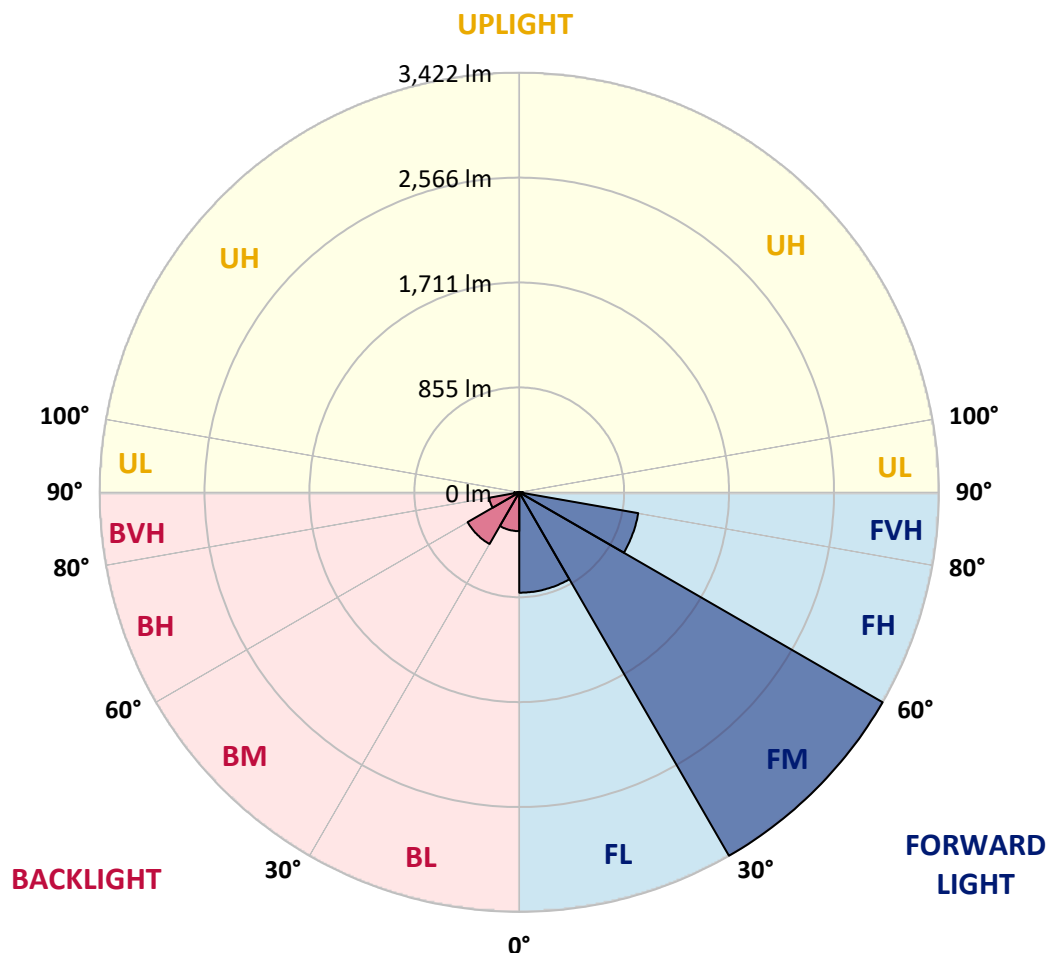
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	818.5	12.9			
FM	(30°-60°)	3421.8	53.9			
FH	(60°-80°)	985.2	15.5			G1/1800
FVH	(80°-90°)	33.2	0.5			G1/100
BL	(0°-30°)	316.7	5.0	B1/500		
BM	(30°-60°)	486.2	7.7	B1/1000		
BH	(60°-80°)	250.3	3.9	B1/500		G1/500
BVH	(80°-90°)	42.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3
2.5°	1618.3	1633.1	1626.6	1603.9	1586.4	1561.7	1534.2	1525.9	1496.9	1464.4	1425.3
5°	1874.4	1867.0	1856.3	1820.9	1783.6	1740.1	1671.1	1660.2	1595.6	1522.0	1444.3
7.5°	2020.3	2019.7	2013.3	1992.6	1958.5	1901.7	1818.5	1805.7	1708.0	1589.7	1469.2
10°	1999.1	1997.6	2008.1	2029.7	2040.0	2028.2	1958.1	1945.2	1825.3	1664.6	1498.0
12.5°	1878.8	1879.7	1896.5	1941.9	2003.7	2078.0	2066.6	2060.3	1946.9	1749.3	1532.9
15°	1785.1	1787.1	1800.4	1839.9	1912.9	2047.6	2132.5	2134.7	2064.6	1842.8	1573.8
17.5°	1744.1	1748.2	1754.3	1782.1	1848.9	1987.1	2148.3	2160.1	2167.7	1939.7	1613.1
20°	1757.2	1761.1	1762.9	1780.5	1835.4	1950.4	2137.3	2158.5	2246.7	2031.0	1652.4
22.5°	1815.9	1818.3	1819.4	1824.0	1866.6	1960.9	2130.1	2152.4	2304.0	2112.9	1682.1
25°	1913.3	1911.6	1904.6	1898.7	1927.3	2002.4	2146.7	2167.9	2350.5	2187.1	1701.5
27.5°	2029.9	2027.7	2014.2	1998.0	2014.4	2067.0	2194.6	2211.4	2392.2	2256.6	1711.3
30°	2169.9	2164.2	2138.7	2119.4	2125.8	2164.0	2273.4	2288.7	2456.6	2335.4	1720.9
32.5°	2331.7	2325.6	2288.7	2256.8	2256.8	2288.7	2354.6	2367.3	2511.2	2424.5	1736.4
35°	2534.3	2526.7	2478.7	2425.2	2410.1	2426.2	2465.3	2474.3	2609.5	2536.7	1764.6
37.5°	2773.2	2763.0	2700.7	2629.1	2596.1	2595.3	2623.4	2641.8	2766.5	2684.1	1812.4
40°	3012.8	3005.6	2951.2	2894.9	2830.2	2809.5	2852.9	2858.6	2971.7	2867.1	1873.6
42.5°	3197.9	3196.6	3186.6	3194.0	3127.8	3085.9	3120.0	3124.6	3222.4	3065.2	1938.6
45°	3295.8	3298.0	3346.7	3454.5	3479.0	3448.4	3465.2	3466.5	3508.9	3265.0	1998.3
47.5°	3217.4	3228.7	3351.9	3593.2	3793.4	3895.0	3867.0	3883.2	3786.7	3436.6	2045.0
50°	2911.9	2925.9	3135.5	3531.4	3940.2	4327.1	4312.5	4308.8	4010.7	3562.4	2070.3
52.5°	2533.5	2544.4	2717.3	3210.2	3832.5	4566.0	4700.3	4681.1	4209.8	3656.5	2075.1
55°	1957.2	1974.2	2140.0	2569.1	3397.1	4474.7	4985.5	4968.2	4391.3	3705.9	2069.4
57°	1391.4	1409.3	1574.0	1960.7	2857.7	4158.7	5013.9	5032.2	4489.4	3714.2	2075.8
57.5°	1241.6	1260.0	1423.1	1798.7	2689.6	4044.5	4989.4	5020.0	4507.0	3712.8	2079.3
60°	625.2	632.2	736.1	1004.0	1700.2	3269.8	4670.4	4749.2	4523.0	3648.6	2094.3
62.5°	388.7	383.7	380.4	462.5	827.2	2168.4	4012.0	4163.8	4217.9	3493.2	2057.9
65°	341.7	332.4	296.3	289.8	365.3	1053.2	3021.3	3210.2	3566.1	3248.2	1971.0
67.5°	321.0	311.8	271.2	246.8	247.0	417.5	1875.7	2088.4	2778.0	2833.9	1765.9
70°	299.6	291.3	253.3	224.5	210.3	231.2	863.0	1024.3	1810.9	2227.5	1475.9
72.5°	272.1	266.4	230.4	200.7	185.6	173.2	330.4	390.2	1048.4	1496.0	1025.0
75°	243.3	238.0	207.2	178.8	160.5	136.3	186.0	200.5	532.6	765.4	504.6
77.5°	211.6	208.5	184.3	158.1	143.5	112.9	131.7	138.7	228.4	328.2	253.1
80°	168.4	174.3	161.2	140.8	127.3	90.4	93.2	97.8	133.0	160.3	143.7
82.5°	109.6	119.9	126.2	114.4	104.8	71.2	67.0	69.0	86.7	97.8	62.5
85°	45.6	51.3	83.0	74.9	69.7	52.0	45.0	45.9	53.7	55.7	25.5
87.5°	20.3	21.6	36.5	34.3	29.5	17.9	19.2	21.0	28.6	27.1	9.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3	1409.3
2.5°	1410.6	1392.3	1360.8	1326.1	1297.7	1275.0	1252.1	1236.4	1218.0	1208.2	1203.2
5°	1411.7	1375.7	1309.5	1241.6	1180.9	1125.4	1072.6	1032.0	994.0	973.5	967.8
7.5°	1416.3	1362.2	1255.2	1143.4	1035.5	937.0	861.0	813.4	779.1	763.8	759.5
10°	1420.0	1346.2	1187.9	1022.4	875.6	775.8	716.9	690.2	678.5	676.5	674.5
12.5°	1428.8	1329.8	1117.2	896.2	751.4	682.4	661.9	660.1	663.4	668.2	668.2
15°	1442.5	1313.7	1036.4	787.9	672.3	648.1	652.3	661.9	670.8	678.2	679.3
17.5°	1452.6	1293.8	949.4	701.2	630.2	636.8	651.6	665.1	674.3	681.5	682.2
20°	1459.8	1263.0	856.6	635.0	606.0	626.3	644.8	656.8	663.2	670.4	671.5
22.5°	1456.1	1221.7	774.3	587.6	586.3	611.0	628.7	643.1	638.3	631.3	635.9
25°	1438.1	1165.0	689.6	552.2	565.6	590.5	612.3	602.7	586.5	583.5	585.2
27.5°	1406.3	1092.5	611.2	519.5	541.5	571.5	570.1	560.5	554.9	550.9	553.3
30°	1372.0	1013.9	542.6	490.9	514.9	539.6	534.6	534.3	528.7	522.3	525.4
32.5°	1338.1	934.8	488.3	467.3	494.8	498.1	509.0	512.3	501.1	487.8	487.0
35°	1308.7	860.1	447.0	445.9	470.6	471.0	487.0	482.4	454.6	440.9	440.9
37.5°	1286.6	785.7	415.5	426.7	438.7	450.0	458.1	439.1	434.5	426.9	426.7
40°	1277.0	720.2	395.9	412.1	416.2	430.6	409.9	417.3	419.5	415.5	415.5
42.5°	1266.9	663.2	378.9	400.9	400.3	398.3	387.8	397.4	406.2	406.4	405.7
45°	1256.9	614.0	363.8	377.1	386.3	365.1	367.1	377.3	389.6	393.9	393.9
47.5°	1245.8	575.2	350.0	352.0	366.2	352.0	350.5	358.3	372.7	379.7	381.3
50°	1221.3	540.2	334.3	329.9	333.9	338.7	340.0	343.7	359.6	370.8	373.4
52.5°	1187.5	509.0	314.2	309.6	309.6	327.8	333.9	335.0	348.5	361.8	364.4
55°	1159.3	489.1	293.5	292.6	291.7	316.2	326.7	328.4	337.8	348.3	349.6
57°	1161.3	487.6	277.5	278.4	278.2	304.4	319.9	323.6	328.4	337.4	338.9
57.5°	1162.4	488.7	274.0	274.5	274.3	301.1	317.9	322.1	325.8	335.2	336.7
60°	1178.7	491.5	259.9	255.0	256.1	283.7	306.8	312.0	314.4	326.9	328.9
62.5°	1154.5	478.9	248.5	236.9	236.9	265.3	291.3	299.6	303.3	320.1	323.4
65°	1084.2	443.3	235.2	216.4	218.6	247.0	272.7	286.3	292.0	312.9	316.4
67.5°	975.7	402.0	221.0	198.1	200.2	227.8	253.5	268.2	277.1	305.1	307.9
70°	834.4	351.6	201.8	178.6	181.2	206.8	230.8	247.4	260.7	297.6	298.5
72.5°	615.1	288.2	174.9	157.2	160.1	182.3	207.9	227.1	245.0	279.1	278.6
75°	365.8	225.4	145.2	135.6	137.6	158.3	187.1	210.5	237.4	271.9	276.0
77.5°	221.9	169.7	118.4	113.5	116.0	137.1	172.3	197.2	234.1	256.4	255.0
80°	134.1	121.2	94.6	91.5	93.9	117.3	159.4	187.1	204.6	219.0	219.0
82.5°	70.1	74.0	69.4	67.0	70.3	95.2	145.0	163.3	180.8	155.3	145.0
85°	28.6	38.7	42.1	41.9	43.9	65.9	125.1	139.8	116.6	110.7	113.3
87.5°	9.6	16.4	20.5	17.7	18.6	41.5	86.7	67.5	80.1	55.9	53.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)