

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: P321736

Luminaire Tested: **GAN-SA2D-827-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-827-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8976 lumens
Efficiency: N/A
Efficacy: 69.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

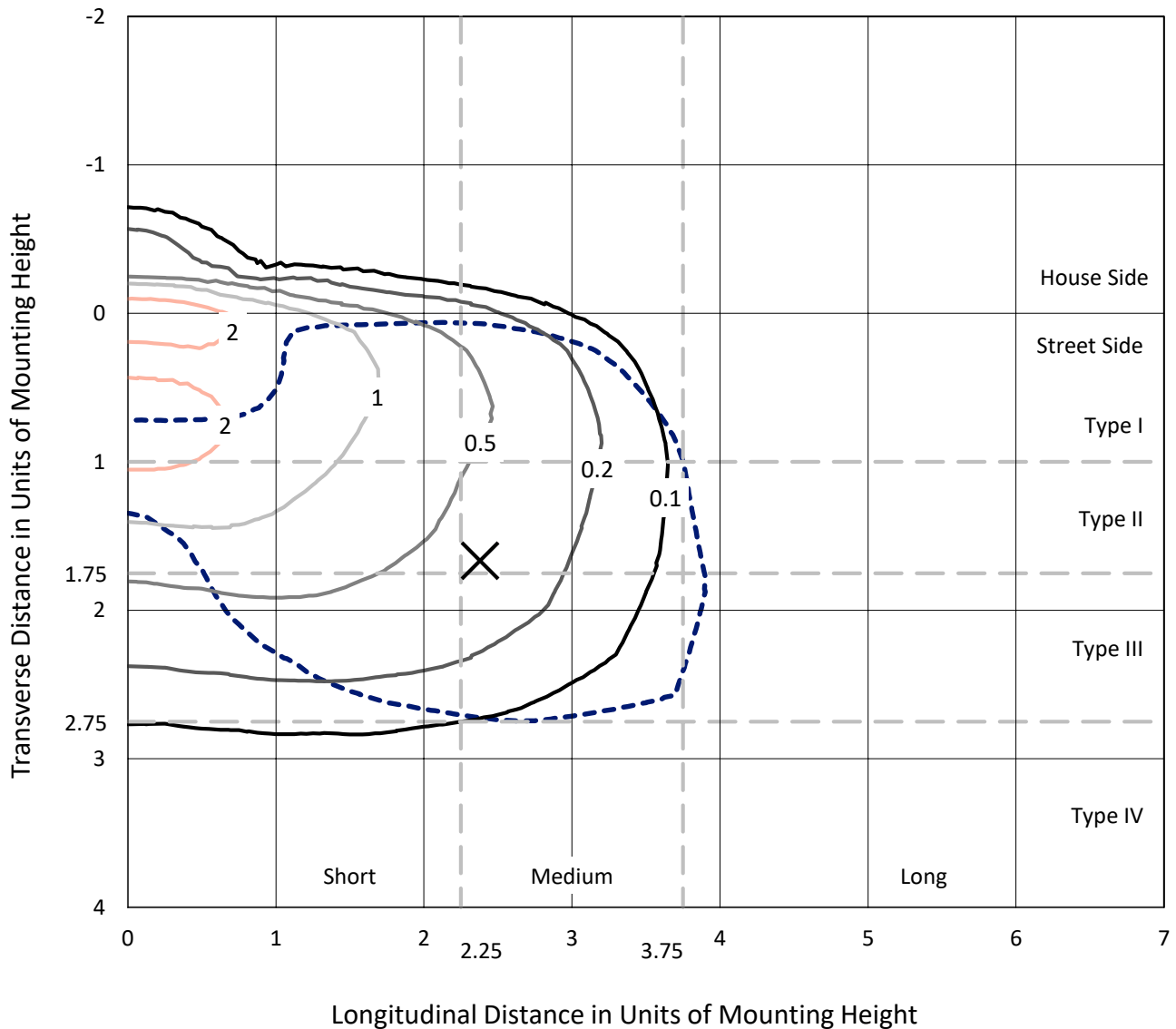
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

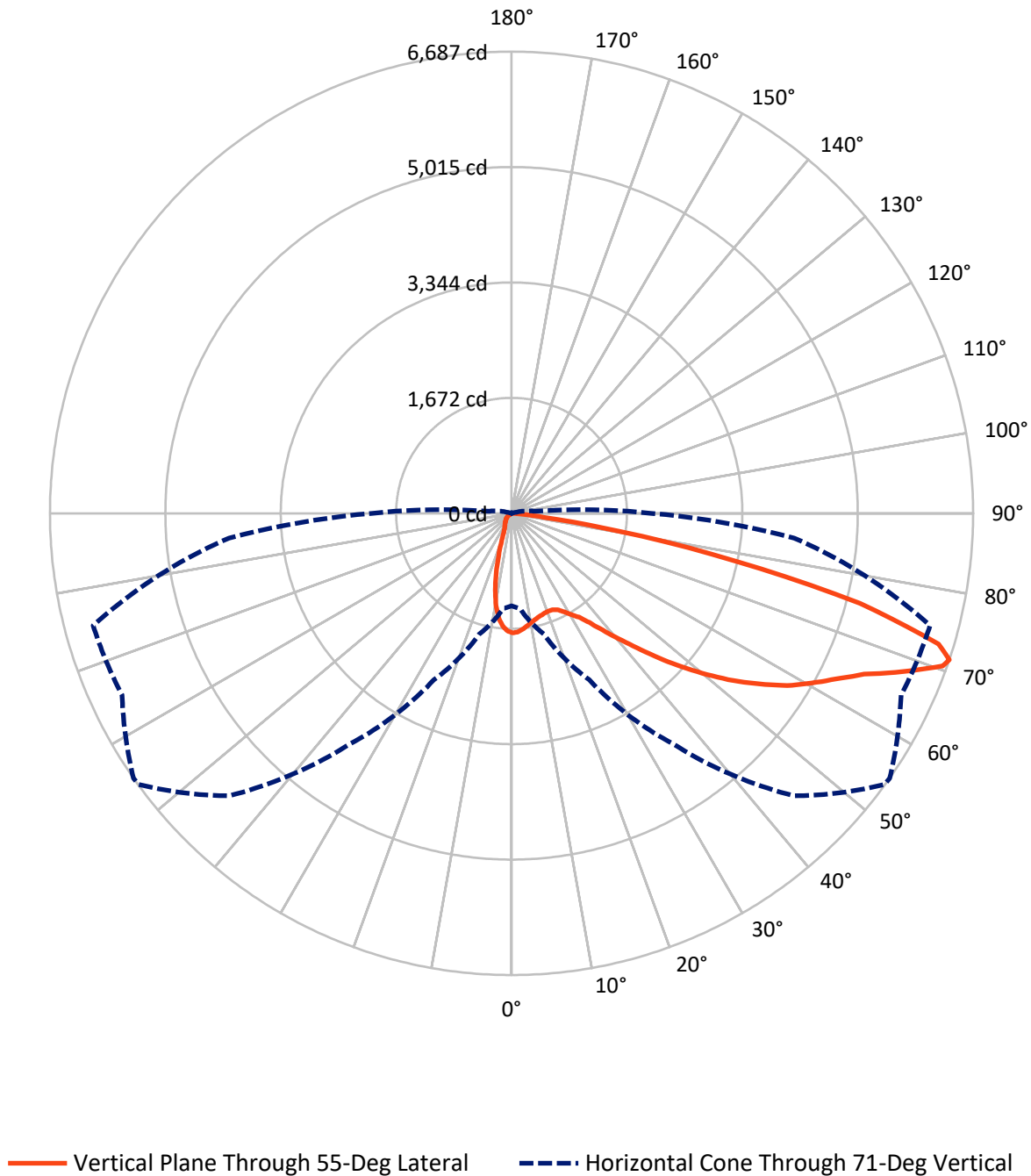
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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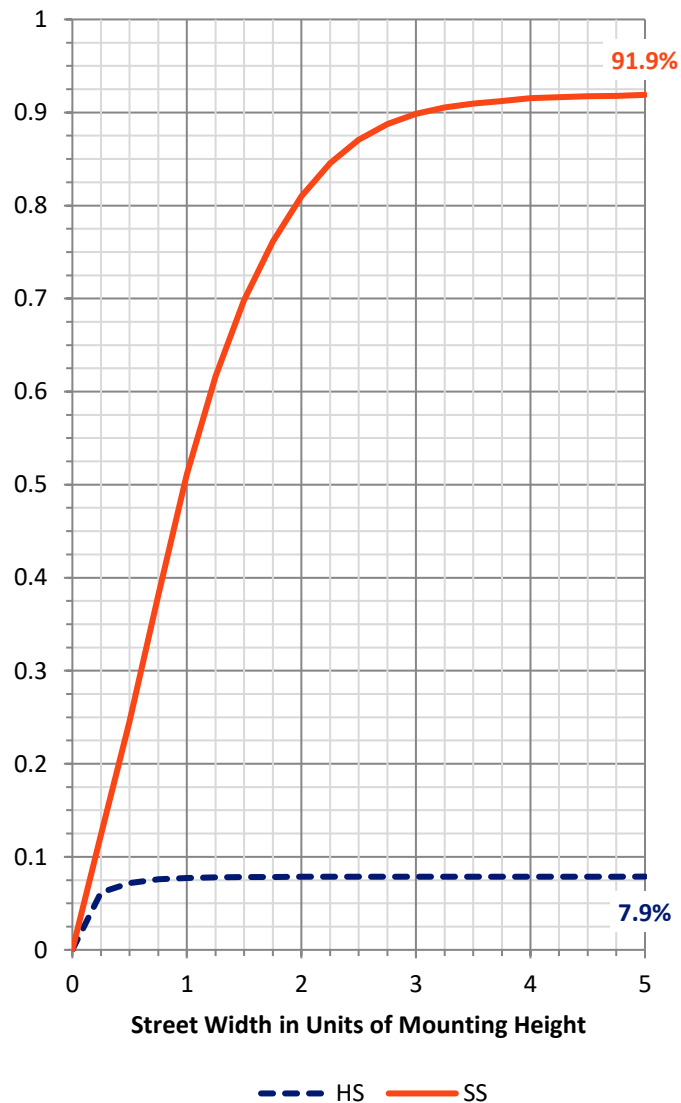
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	710.7	0.0	710.7
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	8265.4	0.0	8265.4
	% Fixture	92.1	0.0	92.1
Total	Lumens	8976.0	0.0	8976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.6	1.6
10°-20°	333.2	3.7
20°-30°	535.5	6.0
30°-40°	909.8	10.1
40°-50°	1412.1	15.7
50°-60°	1898.6	21.2
60°-70°	2322.6	25.9
70°-80°	1358.0	15.1
80°-90°	58.7	0.7
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°	8976.0	100.0
0°-180°	8976.0	100.0

Coefficient of Utilization



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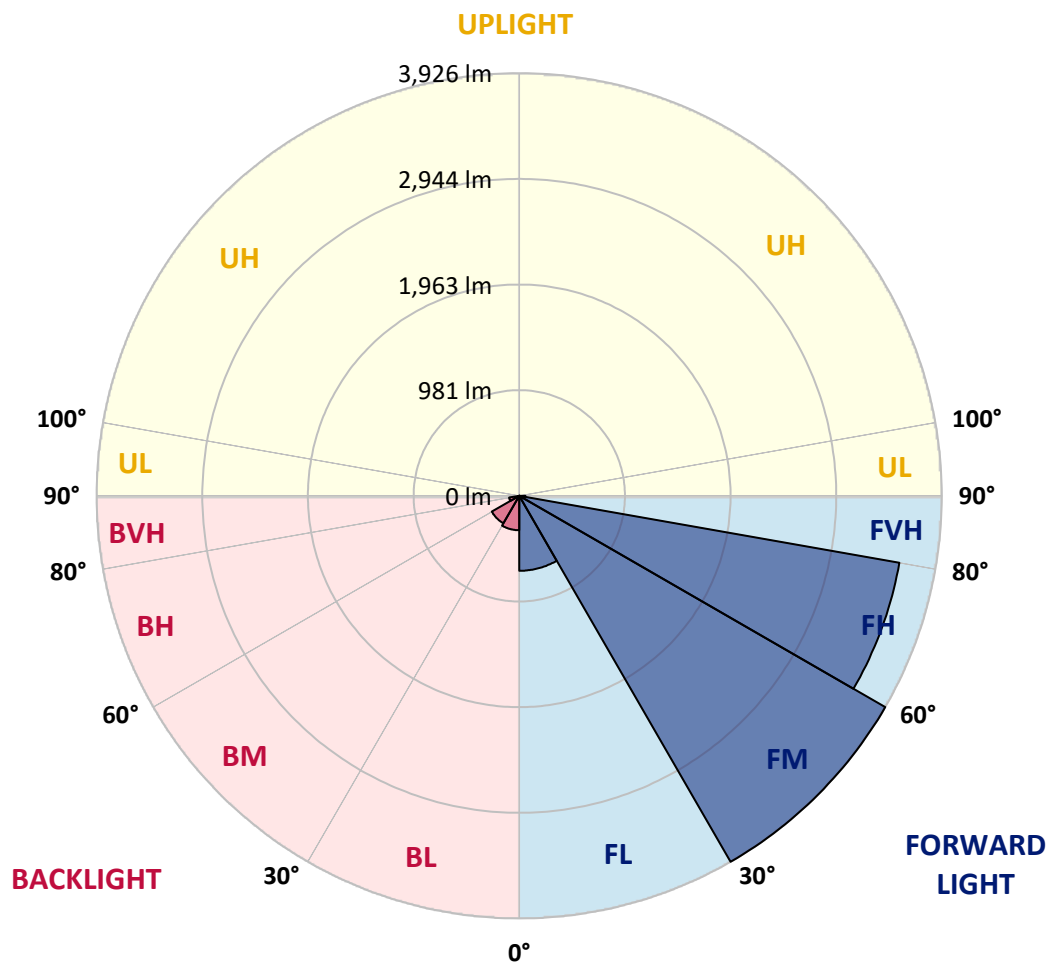
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	696.4	7.8			
FM	(30°-60°)	3925.8	43.7			
FH	(60°-80°)	3585.3	39.9			G2/5000
FVH	(80°-90°)	57.8	0.6			G1/100
BL	(0°-30°)	319.9	3.6	B1/500		
BM	(30°-60°)	294.6	3.3	B1/1000		
BH	(60°-80°)	95.2	1.1	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1
2.5°	1680.3	1682.3	1689.5	1692.8	1700.4	1713.3	1719.8	1720.2	1730.7	1734.7	1737.9
5°	1561.4	1573.5	1585.6	1598.5	1621.8	1652.9	1683.5	1686.3	1720.2	1745.2	1758.5
7.5°	1459.0	1469.9	1484.4	1504.9	1538.0	1586.8	1638.0	1644.0	1708.1	1764.9	1794.7
10°	1353.8	1362.7	1383.6	1413.9	1459.4	1524.7	1593.6	1603.7	1697.2	1791.5	1843.9
12.5°	1241.4	1246.6	1272.0	1315.5	1382.4	1465.5	1556.1	1569.4	1690.3	1822.1	1901.9
15°	1155.9	1158.3	1182.5	1227.7	1304.2	1412.2	1527.1	1543.2	1692.0	1858.8	1965.2
17.5°	1134.2	1135.4	1148.3	1179.3	1247.0	1364.7	1504.1	1523.9	1696.8	1894.7	2028.9
20°	1222.4	1214.0	1200.7	1195.8	1224.8	1336.1	1490.4	1512.6	1703.2	1926.5	2086.1
22.5°	1464.6	1439.7	1384.4	1310.7	1265.9	1338.1	1494.1	1516.2	1723.8	1965.6	2152.2
25°	1824.2	1789.5	1695.6	1550.5	1411.0	1396.1	1524.3	1546.9	1763.7	2012.4	2215.5
27.5°	2233.2	2199.0	2084.1	1877.0	1639.2	1511.0	1593.6	1614.6	1822.9	2053.9	2263.9
30°	2625.0	2615.3	2479.9	2244.5	1926.1	1697.2	1683.1	1700.8	1866.9	2078.9	2302.2
32.5°	2957.1	2941.8	2833.0	2604.0	2254.6	1920.9	1788.3	1793.5	1899.9	2111.1	2352.1
35°	3265.0	3246.1	3150.6	2934.1	2591.5	2194.1	1950.3	1942.6	1972.1	2176.0	2424.7
37.5°	3533.8	3551.2	3445.2	3239.2	2893.8	2478.3	2168.8	2145.8	2084.9	2281.6	2529.9
40°	3758.7	3758.7	3703.5	3531.8	3220.3	2772.1	2415.8	2385.6	2254.6	2444.4	2663.3
42.5°	3839.8	3857.1	3877.6	3780.5	3512.5	3077.6	2691.1	2659.7	2493.6	2675.4	2831.8
45°	3844.6	3872.0	3977.2	3976.8	3776.5	3381.1	3001.4	2986.5	2799.9	2972.0	3040.5
47.5°	3776.5	3810.7	3984.0	4082.4	3985.7	3663.6	3340.8	3322.3	3159.8	3335.6	3259.0
50°	3671.3	3709.2	3910.7	4123.9	4127.9	3909.5	3698.3	3670.5	3556.0	3751.1	3484.7
52.5°	3483.1	3556.4	3845.0	4133.6	4221.4	4121.9	4038.5	4026.4	3999.4	4151.3	3664.4
55°	3080.4	3161.8	3680.2	4136.8	4308.1	4310.1	4357.3	4360.5	4414.9	4525.3	3798.2
57.5°	2890.2	2936.1	3392.4	4152.1	4436.7	4523.7	4682.1	4707.1	4791.3	4880.4	3951.0
60°	2770.5	2824.9	3250.5	4131.2	4638.6	4803.8	4983.2	4991.6	5081.9	5246.8	4157.8
62.5°	2675.0	2728.6	3161.0	4050.5	4865.5	5140.8	5277.4	5278.2	5345.9	5683.3	4392.7
65°	2439.2	2484.3	2980.1	3959.9	5015.4	5474.1	5619.2	5613.9	5669.2	6143.5	4665.6
67.5°	2098.2	2132.9	2610.5	3616.1	4959.0	5777.2	6135.1	6117.7	6050.8	6541.3	4772.8
70°	1622.2	1634.7	2057.5	3013.5	4430.2	5893.6	6633.6	6624.8	6285.0	6470.0	4379.8
71°	1340.9	1382.0	1813.3	2659.7	4075.9	5786.0	6682.0	6687.2	6226.2	6275.7	4109.4
72.5°	778.7	813.7	1314.3	2042.6	3460.5	5337.0	6431.3	6469.2	5951.3	5708.2	3510.1
75°	166.9	178.5	487.3	988.7	1903.6	3740.6	5076.3	5211.3	4850.6	3883.3	2115.6
77.5°	116.1	125.3	208.8	448.6	629.1	1848.3	3153.4	3305.7	2897.9	1459.4	677.1
80°	91.9	102.4	162.8	221.7	170.1	596.1	1477.1	1570.2	966.5	325.7	114.1
82.5°	51.2	60.9	127.0	119.7	65.3	113.3	413.5	467.5	193.5	65.7	27.0
85°	14.9	18.1	81.8	87.1	27.8	21.8	70.5	87.5	36.7	17.3	12.1
87.5°	0.0	0.0	39.5	33.5	8.1	3.2	6.4	7.3	7.3	7.3	8.1
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°	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1	1731.1
2.5°	1737.9	1740.7	1730.7	1717.4	1703.2	1685.9	1667.8	1653.7	1653.3	1646.4	1639.6
5°	1759.3	1757.7	1729.8	1687.5	1637.5	1585.6	1536.0	1480.0	1461.4	1438.4	1430.8
7.5°	1798.8	1787.5	1728.6	1635.9	1526.3	1417.5	1305.0	1191.8	1143.4	1099.9	1092.2
10°	1848.3	1827.0	1721.0	1558.6	1357.4	1156.7	987.0	833.1	765.4	713.4	711.0
12.5°	1899.9	1867.3	1699.6	1441.7	1136.2	854.0	658.6	507.0	450.6	414.3	417.5
15°	1953.9	1905.2	1653.7	1284.1	884.3	579.6	404.7	315.6	293.0	283.7	286.2
17.5°	2009.2	1931.4	1589.6	1094.3	635.6	374.0	280.1	255.1	255.1	257.1	257.9
20°	2057.1	1945.5	1495.3	881.4	430.8	272.5	245.0	241.4	243.4	246.7	247.1
22.5°	2104.7	1946.3	1372.3	665.8	301.5	238.6	233.4	231.7	233.0	236.6	237.0
25°	2143.4	1936.6	1218.4	473.6	240.6	224.9	222.5	221.7	222.5	226.9	226.9
27.5°	2159.1	1901.5	1030.6	332.9	215.6	209.6	208.8	209.6	210.8	214.0	214.4
30°	2160.7	1840.3	825.8	241.0	195.5	189.0	190.6	193.5	192.2	191.4	192.2
32.5°	2164.7	1769.3	626.3	198.3	178.5	168.5	166.5	166.5	161.6	158.8	157.2
35°	2178.0	1685.9	454.2	178.1	161.2	149.5	141.9	133.0	123.7	118.9	117.7
37.5°	2199.0	1598.5	325.3	164.8	145.9	132.6	118.1	102.4	89.1	85.4	85.4
40°	2237.3	1508.2	240.6	154.4	133.8	117.3	95.5	75.0	62.9	60.9	60.9
42.5°	2297.7	1413.1	191.8	145.1	123.3	101.6	73.0	54.4	45.5	44.3	43.9
45°	2360.6	1308.3	167.7	136.2	112.0	83.4	54.0	40.3	35.1	33.9	33.9
47.5°	2423.5	1196.6	156.0	127.8	101.2	64.9	40.3	31.8	29.4	29.4	29.8
50°	2476.7	1080.1	147.5	118.5	87.1	49.2	31.8	27.0	26.2	27.8	28.2
52.5°	2490.0	965.7	137.0	106.8	69.7	37.5	26.2	23.8	23.8	23.8	23.8
55°	2481.9	877.0	123.3	92.3	51.6	29.8	22.6	21.0	20.6	20.6	20.6
57.5°	2509.3	824.6	98.7	71.7	37.1	24.2	19.7	18.5	17.7	17.3	17.3
60°	2564.5	790.4	70.5	51.6	27.8	20.2	16.9	15.7	14.5	13.7	13.7
62.5°	2637.9	760.5	52.4	38.3	21.4	16.1	14.1	12.9	11.3	10.5	10.5
65°	2694.3	707.3	39.9	28.6	16.1	12.9	10.9	10.5	8.1	7.3	6.9
67.5°	2608.1	590.5	32.2	21.0	12.1	10.1	8.5	8.1	4.8	4.0	4.0
70°	2236.9	411.1	25.8	15.3	8.9	8.1	6.9	5.2	3.6	3.2	3.2
71°	2028.5	343.4	23.4	12.9	7.7	7.7	6.4	4.4	3.2	2.8	2.8
72.5°	1685.1	243.8	19.7	10.1	6.9	8.1	6.9	4.0	3.2	2.8	2.4
75°	978.2	102.0	13.7	6.9	5.2	9.7	8.9	3.6	2.4	2.0	2.0
77.5°	294.2	37.5	7.7	4.4	4.0	8.5	10.1	3.2	1.2	0.4	0.4
80°	53.6	16.1	4.8	2.8	2.8	5.2	7.7	1.6	0.0	0.0	0.0
82.5°	18.9	8.1	2.8	1.6	1.2	2.4	3.6	0.0	0.0	0.0	0.0
85°	10.9	5.6	1.6	0.8	0.0	0.4	0.8	0.0	0.0	0.0	0.0
87.5°	7.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)