

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: P324655

Luminaire Tested: **GAN-SA1D-830-U-SLR-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-28)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-830-U-SLR-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4786 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

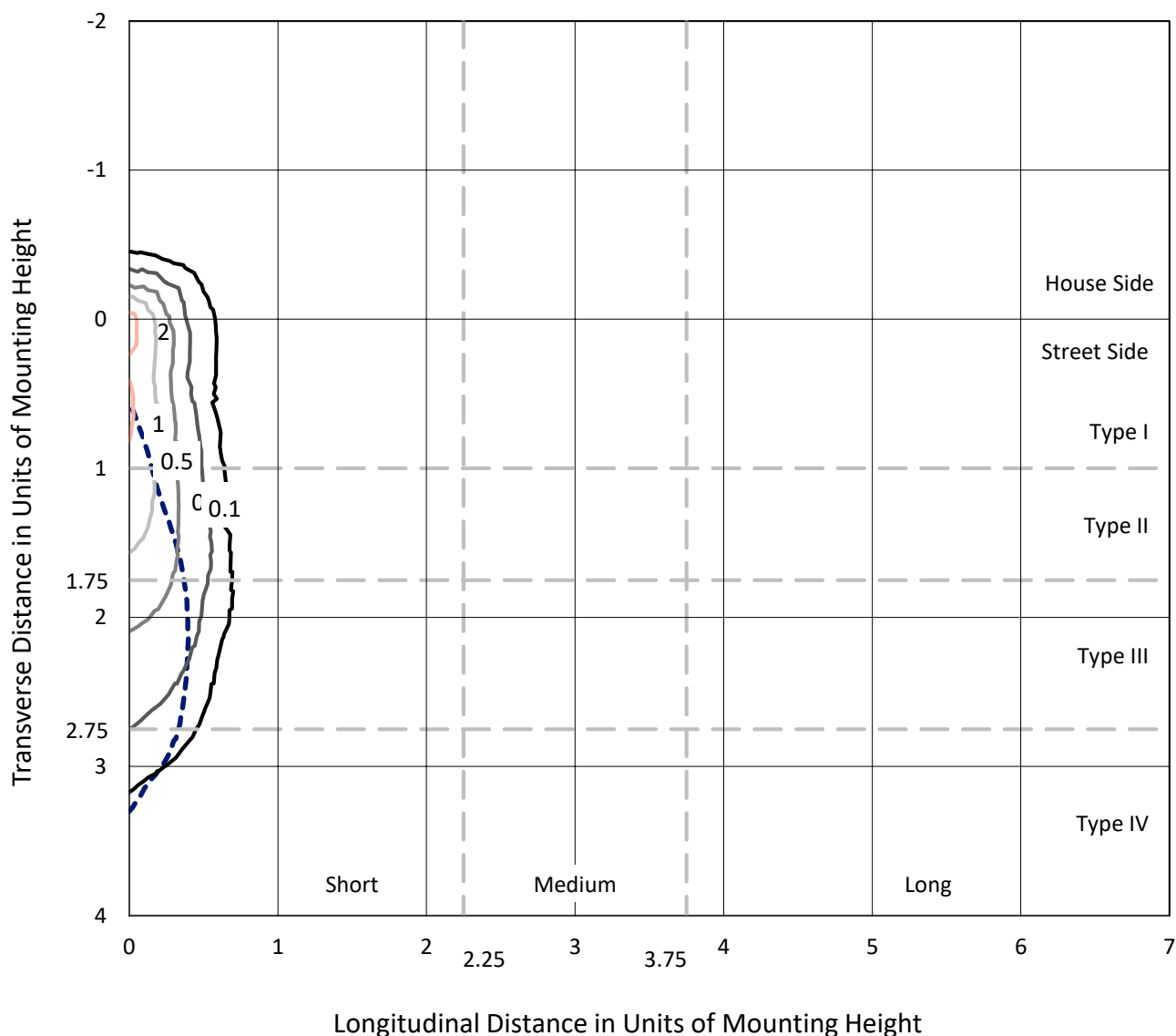
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

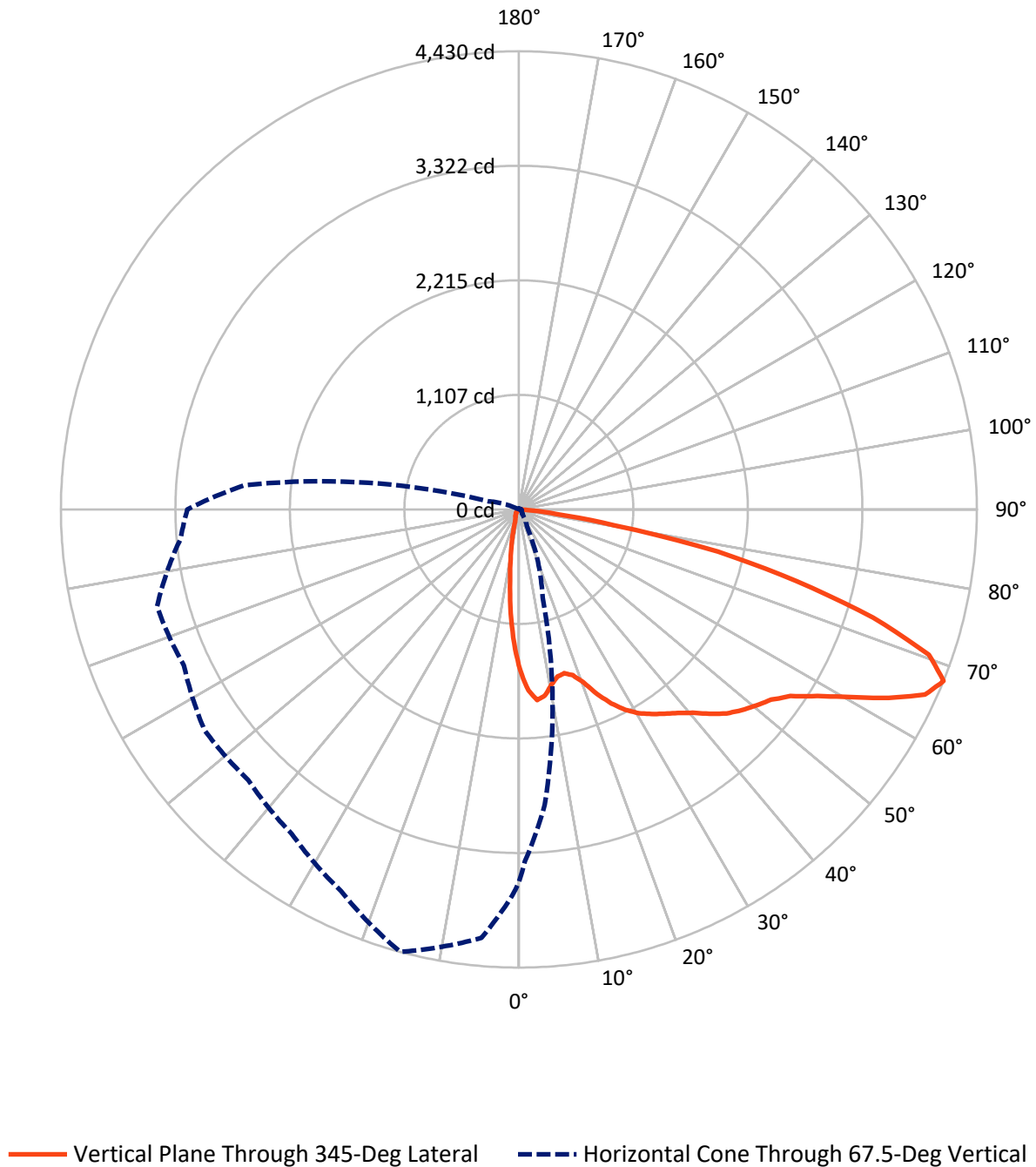
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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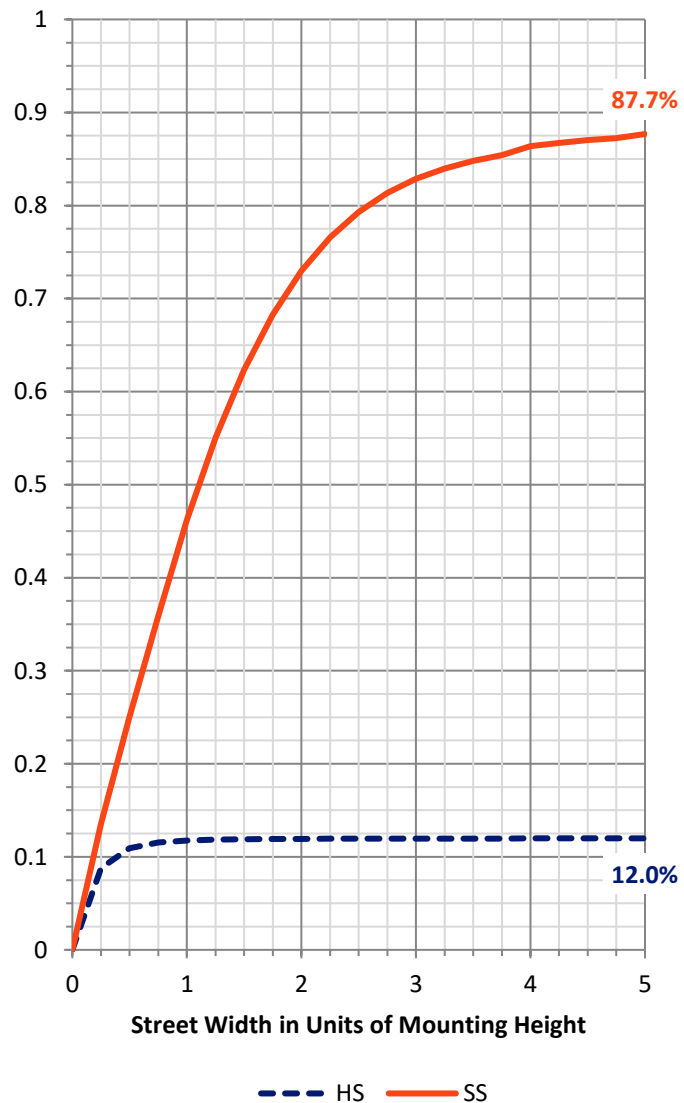
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	579.3	0.0	579.3
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	4206.7	0.0	4206.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	4786.0	0.0	4786.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.7	2.5
10°-20°	238.2	5.0
20°-30°	338.2	7.1
30°-40°	499.5	10.4
40°-50°	720.4	15.1
50°-60°	1011.4	21.1
60°-70°	1178.9	24.6
70°-80°	602.7	12.6
80°-90°	77.0	1.6
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°	4786.0	100.0
0°-180°	4786.0	100.0

Coefficient of Utilization



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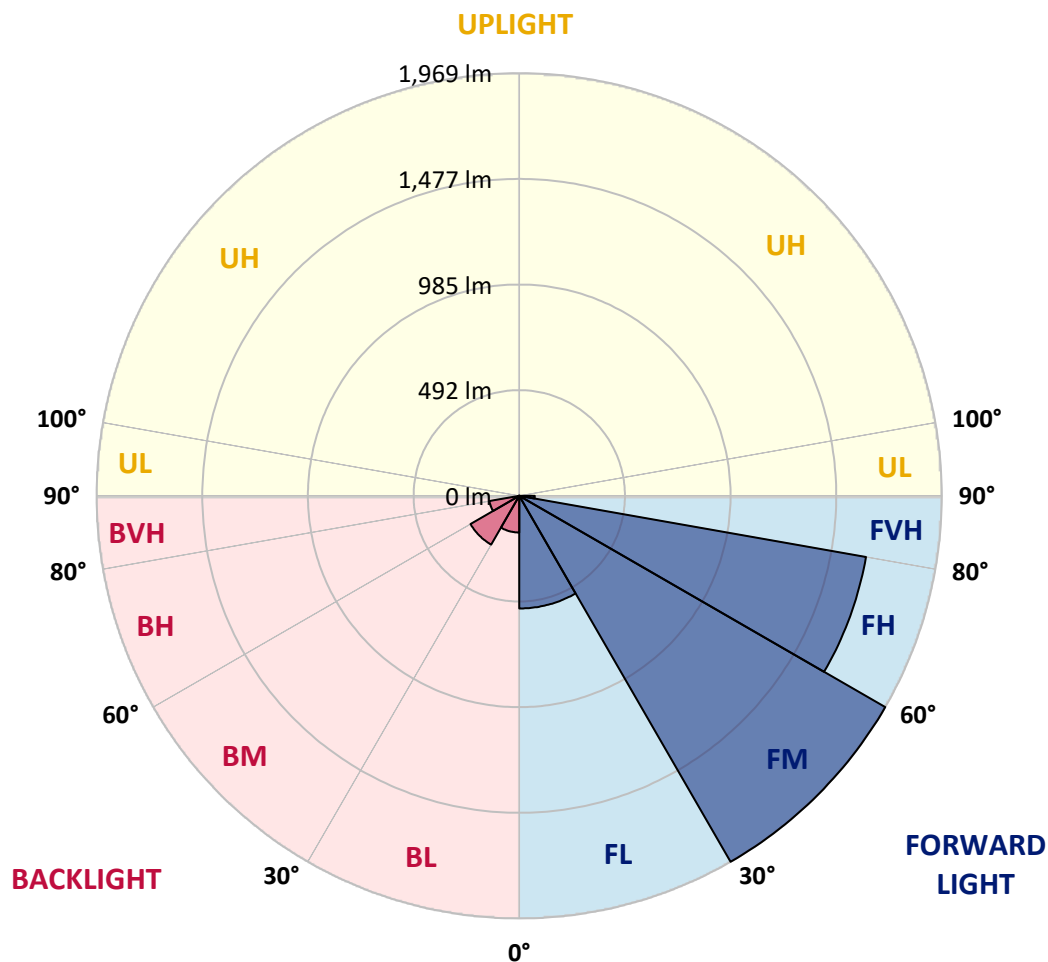
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.9	11.0			
FM	(30°-60°)	1969.0	41.1			
FH	(60°-80°)	1640.5	34.3			G1/1800
FVH	(80°-90°)	72.3	1.5			G1/100
BL	(0°-30°)	171.1	3.6	B1/500		
BM	(30°-60°)	262.3	5.5	B1/1000		
BH	(60°-80°)	141.2	2.9	B1/500		G1/500
BVH	(80°-90°)	4.7	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1707.1	1693.9	1679.4	1632.0	1588.1	1537.7	1496.7	1468.1	1432.3	1385.8	1374.0
5°	1694.8	1680.8	1635.2	1529.8	1437.5	1347.7	1261.1	1210.3	1147.3	1083.3	1067.5
7.5°	1571.7	1557.0	1491.2	1346.8	1222.6	1092.9	980.4	910.8	839.6	781.1	750.0
10°	1443.6	1427.5	1353.6	1178.3	1025.3	908.1	825.5	759.1	691.8	629.2	579.3
12.5°	1355.4	1334.3	1254.1	1055.5	922.1	842.5	765.5	685.9	594.7	527.6	472.7
15°	1318.5	1294.4	1209.6	1008.1	885.6	792.2	691.8	594.0	487.3	410.4	360.1
17.5°	1347.0	1315.7	1224.8	1004.9	839.8	712.6	585.7	470.9	355.1	277.3	241.5
20°	1444.1	1403.0	1287.6	1004.0	784.3	618.1	457.1	327.4	234.0	188.2	169.4
22.5°	1596.9	1542.7	1377.9	1011.2	726.9	518.8	330.1	222.4	175.7	151.9	140.8
25°	1781.5	1718.7	1507.8	1036.9	676.6	422.2	239.9	175.7	148.3	130.8	121.5
27.5°	1957.0	1905.9	1671.9	1073.8	637.6	344.2	194.8	149.0	126.7	115.2	107.7
30°	2132.2	2068.1	1840.4	1117.8	590.6	291.4	171.2	135.8	113.6	101.4	96.6
32.5°	2259.6	2206.4	1972.4	1149.5	540.5	256.9	153.0	124.3	106.1	93.6	86.6
35°	2409.5	2349.2	2085.5	1156.6	508.3	235.1	137.6	111.8	92.1	80.9	73.5
37.5°	2571.4	2496.4	2216.1	1141.2	483.2	224.5	126.1	106.1	85.9	74.6	66.7
40°	2750.5	2665.7	2341.5	1118.9	458.5	220.8	117.2	101.8	81.2	69.6	61.4
42.5°	2939.2	2839.2	2450.1	1095.6	442.8	208.4	116.3	97.5	77.5	65.1	56.9
45°	3097.7	2996.3	2561.7	1087.9	431.7	194.8	120.2	94.5	75.0	61.4	53.5
47.5°	3223.9	3128.0	2675.9	1105.1	425.4	182.3	109.5	98.4	73.7	58.3	50.6
50°	3374.7	3266.1	2836.9	1156.6	416.1	169.8	99.1	112.7	73.7	56.2	48.1
52.5°	3563.8	3456.4	3016.5	1236.4	397.5	152.6	89.1	112.9	74.4	53.5	44.9
55°	3801.7	3723.7	3272.9	1323.9	367.8	127.2	77.1	97.0	71.6	48.5	41.9
57.5°	4029.8	3966.1	3506.7	1383.8	328.1	99.3	67.1	78.2	65.5	42.6	37.4
59°	4092.1	4022.5	3592.4	1386.5	298.4	86.6	62.1	64.6	64.2	39.9	34.7
60°	4092.1	4018.2	3617.1	1372.0	276.8	79.6	59.0	57.6	66.9	38.1	33.1
62.5°	4018.0	3914.1	3536.8	1273.8	225.8	67.8	51.5	47.6	60.1	34.2	29.2
65°	3863.8	3712.6	3263.4	1096.3	201.3	62.1	44.4	39.0	41.7	30.2	25.6
67.5°	3606.7	3401.7	2869.1	885.6	191.6	60.5	38.3	33.1	31.5	25.8	22.4
70°	3153.9	2926.5	2390.5	696.3	183.2	59.9	32.2	27.9	25.4	21.8	19.0
72.5°	2295.5	2058.3	1697.1	544.4	178.2	61.2	25.8	23.4	20.9	17.0	14.7
75°	1313.0	1157.7	953.9	359.6	151.9	58.5	20.0	19.5	15.0	12.2	10.2
77.5°	678.4	657.8	571.6	138.1	72.8	25.6	13.2	11.3	8.8	7.5	6.1
80°	292.7	289.5	250.5	39.9	19.3	14.3	7.5	4.8	4.1	3.2	2.5
82.5°	101.1	101.1	89.1	13.4	8.6	7.0	0.9	0.0	0.0	0.0	0.0
85°	20.4	22.9	16.1	0.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1359.7	1332.3	1330.5	1313.2	1291.7	1282.0	1276.3	1286.3	1298.5	1299.9	1318.2
5°	1055.5	1026.7	1038.7	1008.1	1014.2	1008.1	998.1	999.9	1005.3	988.3	1009.4
7.5°	741.2	719.4	733.3	725.1	736.0	740.3	734.2	725.1	698.3	695.2	713.5
10°	558.7	534.0	519.2	503.8	507.2	514.2	512.0	505.4	488.4	489.3	507.0
12.5°	448.9	421.3	392.0	354.2	344.9	350.1	344.9	341.0	324.7	326.0	341.7
15°	340.6	317.9	287.3	256.9	240.3	241.9	227.4	217.2	207.0	194.8	204.3
17.5°	229.9	216.1	207.0	197.9	178.2	173.7	155.3	135.6	127.9	122.2	126.3
20°	162.8	155.3	151.7	151.2	139.9	134.2	116.3	104.1	100.2	99.1	101.6
22.5°	136.0	130.6	125.4	122.4	116.8	110.2	96.6	90.5	87.7	86.4	88.2
25°	118.4	114.3	108.8	103.8	101.6	94.5	84.8	80.3	78.5	77.1	78.0
27.5°	105.2	101.6	95.2	92.1	90.2	84.1	75.7	72.1	70.5	70.1	69.8
30°	94.8	91.4	85.5	81.9	78.7	73.2	68.2	64.6	63.0	62.6	62.1
32.5°	84.3	81.6	77.8	74.1	70.7	65.8	61.4	58.5	56.0	55.6	55.3
35°	71.2	68.5	66.4	66.2	63.0	58.3	55.1	51.2	49.2	48.5	48.7
37.5°	63.3	59.6	55.1	56.7	55.8	52.4	48.1	44.2	42.2	41.7	41.7
40°	58.3	54.4	49.2	46.5	49.2	48.5	41.7	37.9	35.8	35.6	35.1
42.5°	53.5	49.7	43.8	39.2	40.6	42.6	36.1	32.4	30.4	29.9	29.2
45°	50.1	46.0	39.5	34.2	31.5	35.8	30.8	26.3	25.2	24.3	23.8
47.5°	46.9	43.1	35.6	29.7	25.2	25.8	24.7	21.5	20.2	19.3	19.0
50°	44.2	40.1	32.2	25.4	20.9	19.0	20.0	17.0	15.9	15.0	14.5
52.5°	41.0	37.2	28.6	22.0	17.5	15.0	15.2	13.4	12.2	11.6	11.3
55°	38.5	34.7	25.6	19.3	15.4	12.2	10.9	10.4	9.7	9.3	9.1
57.5°	35.1	31.5	22.7	16.3	13.2	10.0	8.4	8.4	8.2	7.7	7.5
59°	33.1	29.9	20.9	14.7	12.0	8.6	7.5	7.7	7.5	7.0	6.8
60°	31.5	28.6	19.5	13.6	11.3	7.9	6.8	7.3	7.0	6.6	6.3
62.5°	27.9	25.8	16.8	11.3	10.0	6.3	5.7	6.1	6.1	5.9	5.7
65°	24.5	22.2	14.3	9.5	9.3	5.4	4.5	5.4	5.7	5.2	4.8
67.5°	21.3	19.0	12.5	7.7	8.6	4.3	3.4	4.5	6.1	4.8	4.3
70°	18.1	15.9	9.7	6.1	9.1	2.9	2.7	4.1	7.3	5.2	4.1
72.5°	14.1	12.2	6.8	4.5	9.7	2.0	2.0	3.4	8.2	5.7	3.9
75°	9.7	7.9	4.1	2.7	7.9	1.4	1.4	3.2	7.7	5.2	3.6
77.5°	5.7	4.3	1.4	0.2	4.1	0.0	0.2	2.3	5.4	3.2	1.6
80°	2.0	0.9	0.0	0.0	2.5	0.0	0.0	0.0	0.5	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1323.0	1353.6	1381.0	1422.5	1471.7	1528.4	1577.2	1629.5	1678.7	1699.2	1713.2
5°	1013.7	1051.6	1095.8	1156.8	1238.0	1338.0	1431.6	1537.5	1651.3	1708.2	1761.7
7.5°	716.7	755.3	810.1	875.0	973.1	1092.2	1214.6	1360.9	1515.0	1605.1	1693.7
10°	515.4	562.8	614.0	702.7	802.4	915.3	1041.4	1204.6	1376.5	1476.3	1583.1
12.5°	350.8	404.7	482.3	581.6	698.8	809.4	919.0	1074.7	1274.3	1373.1	1487.6
15°	210.4	240.3	322.4	437.4	581.1	719.0	838.9	995.1	1207.8	1328.9	1447.9
17.5°	129.7	143.5	188.2	282.5	433.5	607.9	772.3	968.2	1217.3	1364.7	1492.1
20°	103.4	108.8	123.1	166.9	287.3	485.4	697.2	962.7	1295.1	1476.5	1613.2
22.5°	89.8	95.0	104.5	121.3	180.7	363.5	626.0	967.7	1406.7	1644.1	1803.7
25°	79.1	83.7	92.7	106.6	132.4	256.0	549.8	989.9	1552.0	1852.0	2021.6
27.5°	70.7	74.6	83.0	95.7	113.6	178.7	463.4	1016.9	1724.3	2064.6	2232.0
30°	63.0	66.4	73.9	85.7	98.6	137.4	368.7	1035.3	1896.9	2232.0	2382.3
32.5°	56.5	59.0	65.8	75.7	85.7	109.5	280.2	1032.3	2025.0	2371.2	2490.5
35°	49.7	52.1	58.0	66.7	74.6	90.5	220.4	977.2	2136.5	2515.6	2614.3
37.5°	42.2	45.3	51.0	58.7	64.2	79.6	178.2	910.8	2249.7	2680.7	2752.3
40°	35.8	39.0	44.0	52.4	55.8	75.5	136.9	829.9	2376.9	2865.3	2903.8
42.5°	29.7	32.6	37.9	45.1	52.6	65.1	101.4	737.3	2499.1	3023.1	3041.9
45°	24.0	27.0	32.4	39.7	56.2	54.0	78.5	638.3	2597.7	3154.3	3160.5
47.5°	19.0	21.8	27.4	37.4	52.4	43.1	56.0	560.5	2680.5	3256.8	3240.7
50°	14.7	17.0	22.9	42.9	45.8	35.6	42.4	534.6	2754.6	3320.3	3278.6
52.5°	11.6	13.6	18.8	40.1	35.6	29.5	35.6	558.9	2856.2	3372.9	3299.9
55°	9.3	11.3	14.7	22.9	24.3	24.9	30.4	581.6	3031.4	3496.3	3425.7
57.5°	7.7	9.7	12.0	16.1	18.4	21.1	27.0	584.1	3238.0	3701.2	3634.6
59°	7.0	8.8	10.9	14.3	16.1	19.3	25.4	570.5	3310.8	3775.8	3742.5
60°	6.6	8.4	10.2	13.2	15.0	18.1	24.5	557.5	3314.0	3773.1	3788.5
62.5°	5.7	7.5	9.1	11.1	12.7	15.4	22.0	509.7	3179.7	3649.5	3760.9
65°	5.0	6.6	8.2	9.5	10.9	13.8	20.0	422.4	2950.5	3450.2	3571.5
67.5°	4.5	5.7	7.5	8.4	9.7	12.2	17.7	301.1	2664.1	3206.5	3285.2
70°	4.1	5.4	6.8	7.7	8.8	10.7	15.2	173.0	2249.7	2849.6	2905.6
72.5°	3.9	5.2	6.1	7.3	7.9	9.5	13.8	81.4	1647.2	2282.8	2429.0
75°	3.4	4.8	5.7	6.8	7.5	8.6	11.8	39.0	1095.6	1652.0	1818.2
77.5°	2.0	3.9	5.2	6.1	6.6	7.5	9.7	22.4	699.3	1143.4	1346.8
80°	0.0	1.4	3.9	5.2	5.7	6.3	7.5	17.7	374.1	653.2	784.1
82.5°	0.0	0.0	2.7	4.1	3.9	4.3	5.7	11.1	168.7	426.9	481.1
85°	0.0	0.0	0.9	3.2	2.7	2.0	3.9	3.9	37.0	216.1	269.6
87.5°	0.0	0.0	0.0	0.2	1.4	0.9	1.6	0.5	0.2	16.1	65.3
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0	1559.0
2.5°	1762.4	1779.2	1807.5	1820.9	1814.3	1786.4	1753.1	1719.1	1699.2	1707.1
5°	1870.8	1957.2	2007.1	2023.6	1995.9	1933.4	1851.5	1743.6	1705.3	1694.8
7.5°	1870.8	2033.4	2136.3	2154.4	2092.8	1970.1	1816.6	1648.1	1592.1	1571.7
10°	1805.0	2026.3	2169.9	2198.7	2112.5	1929.1	1723.4	1531.1	1464.7	1443.6
12.5°	1730.9	1969.2	2120.4	2160.1	2089.4	1888.3	1658.8	1452.0	1373.8	1355.4
15°	1685.3	1898.9	2024.1	2052.9	2022.9	1864.4	1643.4	1428.2	1336.2	1318.5
17.5°	1701.6	1844.5	1889.6	1906.4	1926.6	1856.1	1685.3	1480.4	1363.8	1347.0
20°	1763.1	1787.1	1763.8	1784.9	1839.3	1864.2	1785.3	1606.4	1466.5	1444.1
22.5°	1867.4	1757.4	1691.9	1700.3	1766.5	1891.2	1938.1	1786.4	1625.0	1596.9
25°	1988.9	1781.5	1652.0	1644.5	1712.5	1926.8	2077.8	1982.3	1812.5	1781.5
27.5°	2141.7	1835.4	1643.8	1636.3	1693.7	1960.1	2193.9	2176.0	2010.0	1957.0
30°	2259.6	1888.5	1668.1	1650.9	1712.5	1983.3	2287.1	2340.4	2167.4	2132.2
32.5°	2344.2	1951.1	1707.5	1682.6	1765.6	2023.2	2359.0	2490.9	2312.9	2259.6
35°	2408.6	2019.1	1771.3	1730.2	1838.6	2083.7	2426.3	2651.2	2467.8	2409.5
37.5°	2468.9	2114.5	1870.8	1821.8	1953.1	2181.2	2497.5	2833.1	2641.0	2571.4
40°	2553.0	2222.7	2024.3	1980.8	2145.6	2314.1	2586.4	3022.6	2838.0	2750.5
42.5°	2637.2	2338.8	2181.4	2193.2	2385.7	2475.5	2701.1	3223.0	3032.6	2939.2
45°	2714.0	2458.5	2405.2	2459.6	2608.6	2652.6	2815.1	3338.9	3187.9	3097.7
47.5°	2782.5	2608.1	2627.6	2772.5	2862.1	2812.9	2900.4	3438.9	3303.5	3223.9
50°	2862.1	2801.8	2920.8	3125.8	3153.9	2958.0	2977.9	3557.2	3438.7	3374.7
52.5°	2949.1	3005.8	3245.5	3426.2	3417.1	3115.6	3055.9	3689.9	3623.9	3563.8
55°	3048.0	3170.7	3531.4	3707.3	3699.6	3291.5	3185.2	3853.8	3856.1	3801.7
57.5°	3194.7	3312.6	3725.5	3934.8	3947.7	3494.7	3404.2	4037.5	4066.0	4029.8
59°	3299.9	3404.7	3802.3	4029.8	4082.4	3651.8	3564.3	4144.0	4125.2	4092.1
60°	3377.9	3463.2	3840.4	4079.4	4160.6	3758.4	3682.4	4206.6	4132.2	4092.1
62.5°	3570.9	3590.6	3909.1	4135.6	4250.6	3995.1	4014.8	4313.2	4083.5	4018.0
65°	3660.9	3671.1	3908.2	4035.0	4163.5	4179.4	4316.4	4316.4	3964.5	3863.8
67.5°	3623.2	3574.0	3714.4	3701.2	3829.6	4069.9	4429.7	4158.1	3736.8	3606.7
70°	3317.1	3127.8	3065.5	3071.1	3169.3	3540.0	4205.3	3692.4	3306.0	3153.9
72.5°	2760.0	2305.9	2151.9	2327.7	2353.3	2720.6	3583.8	2780.7	2438.1	2295.5
75°	2220.0	1625.5	1375.1	1560.6	1604.2	1991.0	2772.3	1731.8	1424.1	1313.0
77.5°	1594.9	1166.8	986.8	973.8	1030.1	1262.7	1967.2	871.6	726.9	678.4
80°	906.0	768.0	826.9	780.2	808.5	789.5	934.6	382.3	313.1	292.7
82.5°	546.9	453.9	491.6	409.3	517.9	451.0	360.1	122.4	106.3	101.1
85°	355.7	248.0	129.2	86.6	178.4	288.2	80.5	33.3	25.6	20.4
87.5°	122.7	63.3	6.3	2.7	19.0	53.7	2.9	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

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