

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: P321185

Luminaire Tested: **GAN-SA1A-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321185
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3294 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

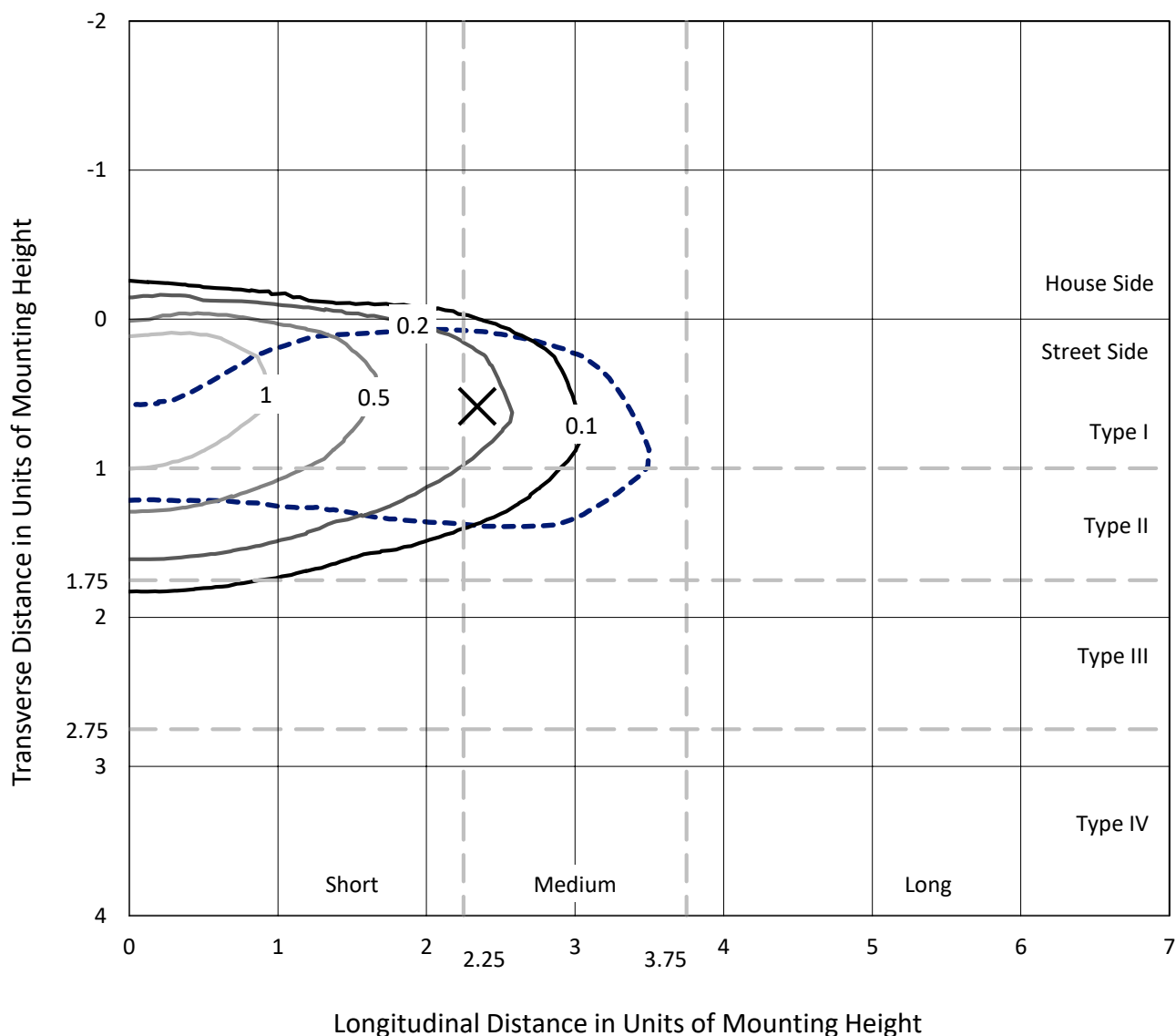
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

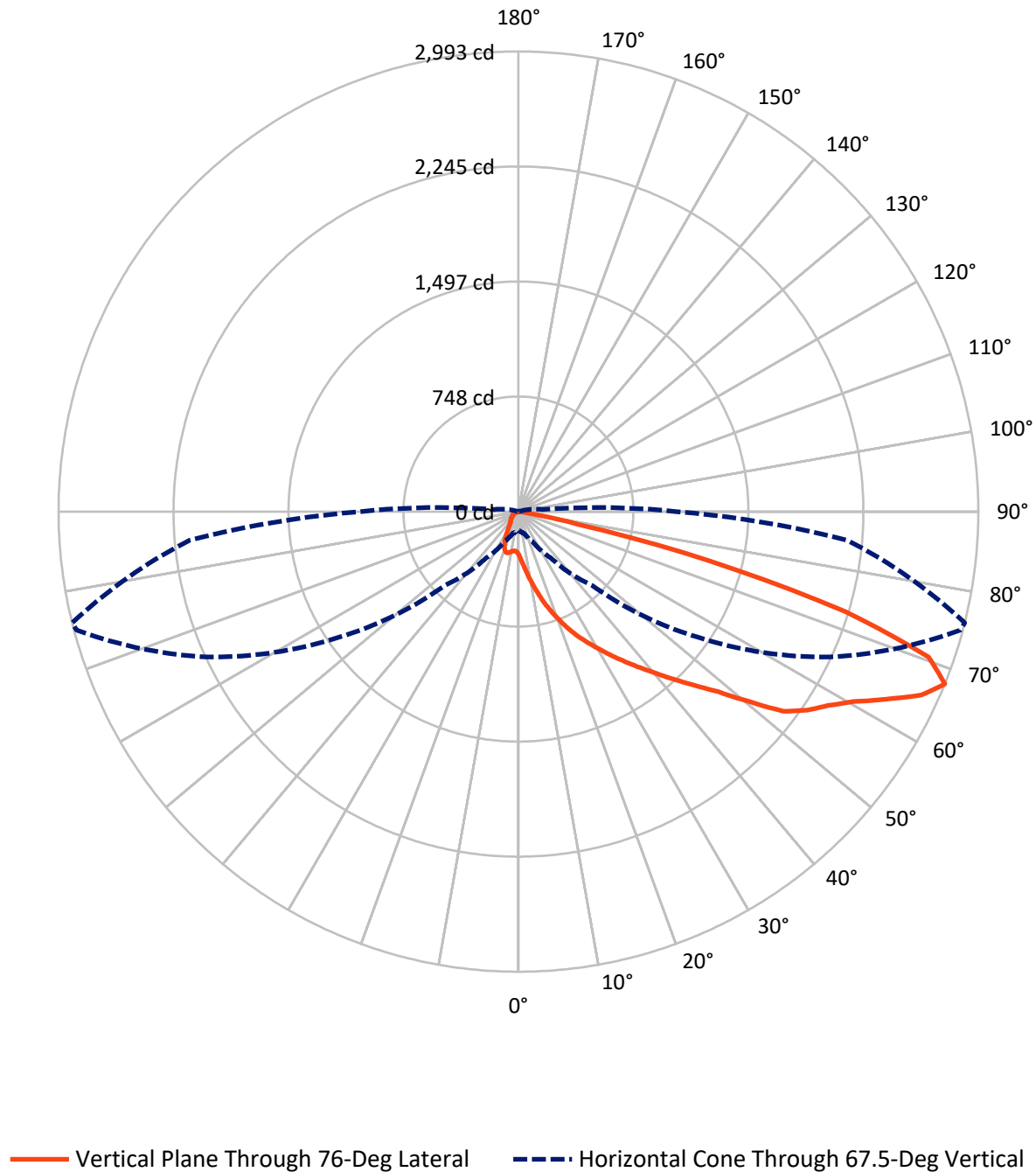
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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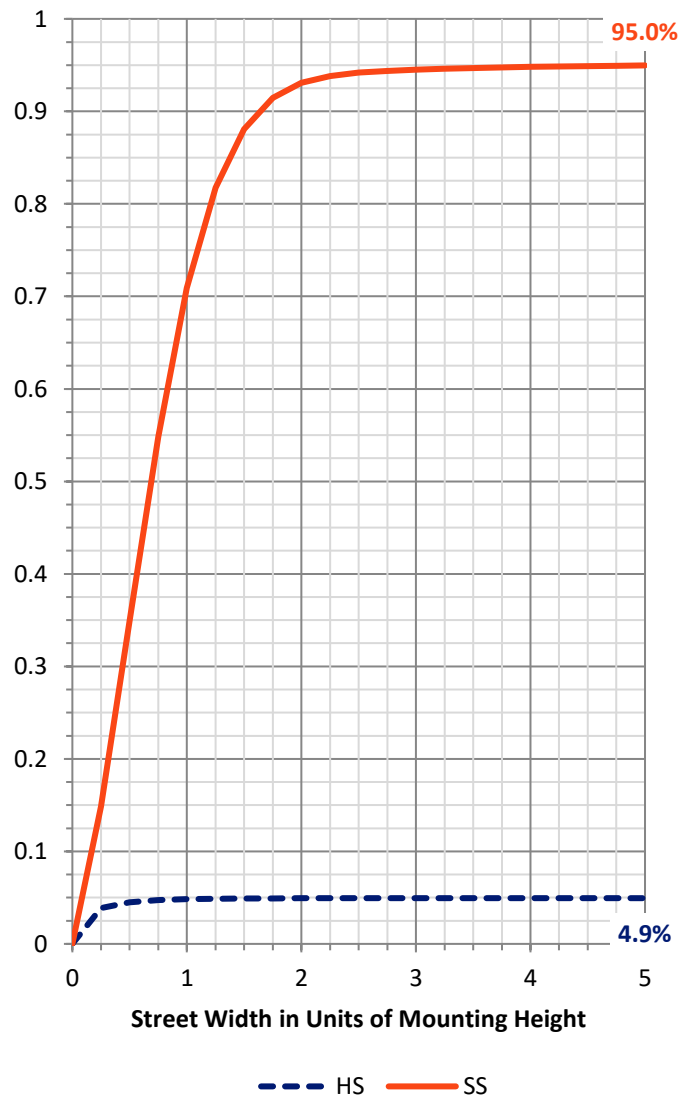
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	163.6	0.0	163.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3130.4	0.0	3130.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	3294.0	0.0	3294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	1.1
10°-20°	137.7	4.2
20°-30°	280.3	8.5
30°-40°	486.4	14.8
40°-50°	687.3	20.9
50°-60°	779.4	23.7
60°-70°	646.4	19.6
70°-80°	234.2	7.1
80°-90°	7.6	0.2
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°	3294.0	100.0
0°-180°	3294.0	100.0

Coefficient of Utilization



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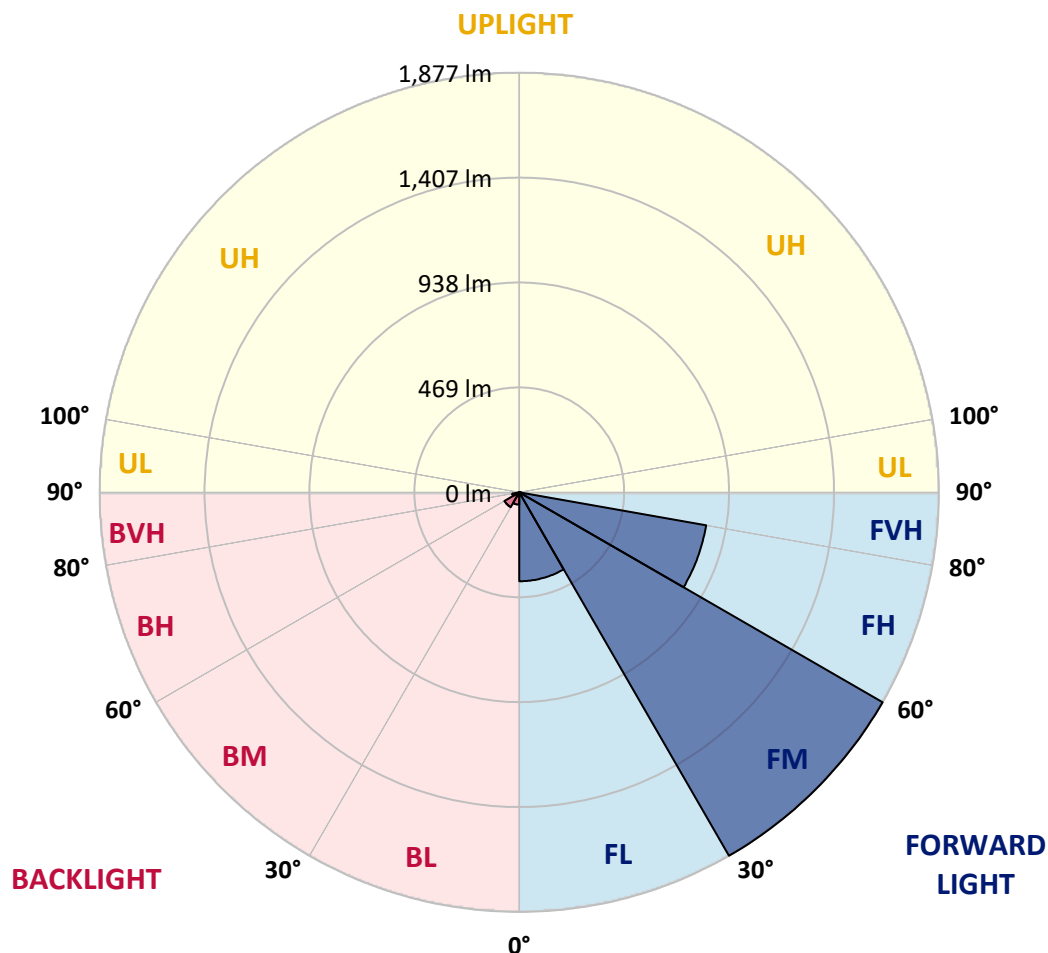
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	397.6	12.1			
FM	(30°-60°)	1876.5	57.0			
FH	(60°-80°)	849.0	25.8			G1/1800
FVH	(80°-90°)	7.4	0.2			G0/10
BL	(0°-30°)	55.2	1.7	B0/110		
BM	(30°-60°)	76.6	2.3	B0/220		
BH	(60°-80°)	31.6	1.0	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4
2.5°	417.1	407.7	409.9	403.8	392.9	370.4	351.2	333.0	311.8	311.0	293.6
5°	562.5	554.5	553.5	541.2	521.3	483.1	445.8	403.4	356.1	352.6	315.5
7.5°	694.4	688.0	685.7	671.1	634.1	596.8	548.3	486.0	411.9	405.6	345.1
10°	795.7	792.7	793.2	782.9	751.1	716.5	652.8	573.3	475.3	465.5	380.6
12.5°	872.5	873.2	878.4	872.1	854.3	828.6	760.6	666.4	545.4	532.0	421.2
15°	928.9	932.5	942.1	950.0	948.7	926.5	864.1	760.9	619.9	605.0	466.3
17.5°	965.4	969.5	983.3	1000.9	1017.1	1011.9	964.0	852.1	695.2	678.1	514.7
20°	997.5	1002.2	1017.1	1040.3	1070.5	1077.0	1045.5	940.6	770.4	749.5	564.6
22.5°	1066.9	1066.8	1075.9	1089.4	1118.1	1134.9	1115.0	1022.7	844.8	823.0	615.6
25°	1192.5	1187.7	1184.5	1173.9	1180.2	1190.6	1179.5	1099.5	919.5	897.5	667.2
27.5°	1341.7	1344.6	1318.9	1290.2	1268.0	1257.3	1239.1	1170.7	991.4	967.2	717.8
30°	1499.2	1500.0	1469.7	1433.1	1384.1	1343.6	1312.1	1238.7	1065.3	1038.9	766.8
32.5°	1641.2	1635.6	1605.5	1555.6	1493.8	1448.2	1382.8	1314.6	1143.5	1118.0	821.4
35°	1753.8	1747.1	1710.6	1665.2	1601.1	1555.2	1476.5	1390.3	1225.8	1200.8	876.1
37.5°	1836.0	1828.3	1790.7	1744.0	1688.7	1662.0	1585.2	1472.8	1315.6	1288.7	933.7
40°	1864.6	1857.8	1834.3	1800.1	1755.7	1749.6	1700.5	1567.6	1413.3	1384.7	998.9
42.5°	1847.6	1841.0	1832.6	1821.0	1802.6	1808.3	1809.3	1675.7	1521.8	1493.7	1070.9
45°	1780.0	1774.1	1782.8	1799.7	1822.6	1851.2	1908.6	1791.9	1643.1	1613.1	1154.2
47.5°	1680.6	1676.3	1700.2	1742.4	1809.5	1888.3	1999.4	1914.0	1779.2	1751.3	1258.1
50°	1539.2	1538.4	1586.4	1663.3	1766.5	1906.2	2093.2	2052.8	1968.3	1939.0	1402.6
52.5°	1318.9	1320.3	1414.6	1537.7	1691.0	1894.1	2153.6	2231.2	2188.2	2157.8	1527.8
55°	1109.2	1117.9	1184.7	1362.2	1575.2	1849.0	2174.4	2314.5	2309.6	2280.7	1597.3
57.5°	903.8	919.5	983.9	1149.7	1406.2	1745.3	2163.0	2350.6	2400.0	2377.9	1689.1
60°	681.2	688.5	762.6	917.7	1189.3	1555.9	2080.3	2370.2	2523.5	2508.2	1822.3
62.5°	433.4	451.5	517.3	666.8	926.0	1292.9	1940.8	2369.9	2678.1	2686.5	1994.2
65°	228.3	249.4	284.3	413.2	636.4	999.2	1731.1	2347.7	2867.7	2879.4	2128.6
67.5°	123.1	129.2	147.7	214.5	369.1	676.9	1423.0	2238.0	2977.6	2993.0	2147.4
70°	90.1	93.4	100.3	118.6	185.8	393.2	1038.3	1989.3	2836.0	2830.2	1907.9
72.5°	69.1	74.3	79.5	86.9	106.8	209.9	646.5	1557.8	2262.8	2224.7	1426.1
75°	54.6	55.4	62.8	69.4	80.1	119.5	287.1	907.3	1381.1	1290.9	739.6
77.5°	43.6	44.2	48.5	54.3	64.4	78.5	88.9	356.9	440.9	393.4	160.5
80°	25.8	27.3	36.1	41.9	53.4	49.5	32.5	77.5	68.8	62.4	27.0
82.5°	14.4	15.6	20.4	33.1	37.2	23.7	16.2	20.9	16.2	15.7	7.6
85°	0.0	0.7	13.1	20.5	15.2	5.2	6.8	6.9	4.8	4.5	3.0
87.5°	0.0	0.0	4.0	3.9	0.6	0.9	1.6	2.3	1.9	1.9	1.6
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°	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4	279.4
2.5°	284.9	277.1	262.4	248.0	235.8	225.9	216.9	213.3	210.4	210.0	207.7
5°	297.6	281.9	253.7	230.6	215.2	204.2	194.8	189.1	184.6	182.9	181.3
7.5°	316.8	293.0	252.6	226.0	207.5	189.1	171.8	153.0	141.3	136.8	134.2
10°	340.2	307.7	256.9	224.7	192.4	153.4	124.7	100.9	91.2	88.0	87.2
12.5°	367.5	326.0	264.4	216.6	160.1	109.0	86.0	77.9	75.8	74.8	74.8
15°	398.8	346.1	269.8	193.3	118.4	82.4	74.5	70.7	68.4	67.1	67.3
17.5°	430.8	365.7	267.2	159.3	87.3	73.3	67.4	63.4	60.2	58.9	58.6
20°	463.2	383.9	252.7	118.6	73.9	66.5	59.9	55.4	52.2	50.9	50.7
22.5°	496.6	399.4	227.3	87.0	66.4	59.0	52.5	48.1	45.0	43.9	43.3
25°	529.3	411.9	191.8	70.4	59.3	52.0	45.8	41.6	38.8	37.7	37.5
27.5°	559.7	419.9	150.7	62.2	53.1	45.6	40.0	36.2	33.9	33.1	32.9
30°	587.1	420.6	111.4	56.1	47.6	40.1	34.9	31.6	29.6	28.7	28.4
32.5°	614.9	414.5	81.1	50.7	42.6	35.4	30.3	27.7	26.3	25.5	25.5
35°	641.0	400.5	63.2	45.9	37.7	30.7	26.7	24.8	24.0	23.2	23.2
37.5°	666.5	380.5	53.7	41.7	33.1	26.8	23.5	22.4	21.6	20.9	20.9
40°	692.5	355.2	48.8	37.8	29.3	23.8	20.9	19.9	19.2	18.6	18.5
42.5°	724.4	326.0	45.6	34.2	26.0	21.1	18.5	17.3	16.7	16.2	15.9
45°	761.4	300.9	43.0	30.6	23.2	18.8	16.0	14.9	14.0	13.3	13.1
47.5°	814.6	282.7	39.5	26.7	20.6	16.3	13.9	12.6	11.3	10.5	10.4
50°	882.6	267.7	35.1	23.2	18.0	13.9	11.5	10.0	8.8	8.1	8.1
52.5°	916.4	248.1	31.0	20.2	15.2	11.7	9.4	7.5	6.9	6.2	6.2
55°	929.9	233.1	27.0	17.2	12.6	9.7	7.4	5.8	5.3	4.9	4.8
57.5°	968.0	228.8	23.5	14.6	10.4	7.6	5.6	4.3	4.0	3.5	3.5
60°	1029.4	230.9	20.4	12.4	8.4	5.9	4.2	3.3	3.0	2.5	2.5
62.5°	1095.6	228.2	17.2	10.7	6.5	4.3	2.9	2.5	2.5	1.4	1.3
65°	1108.3	203.2	14.7	8.8	5.1	3.2	1.9	1.6	2.2	0.3	0.0
67.5°	1028.7	157.6	12.7	6.8	3.8	2.5	1.4	0.7	1.9	0.0	0.0
70°	822.5	100.2	10.2	4.9	2.9	2.0	1.2	0.3	1.4	0.0	0.0
72.5°	581.7	58.2	8.1	3.5	2.5	1.6	0.9	0.0	0.9	0.0	0.0
75°	294.1	31.0	5.1	2.6	1.9	1.2	0.6	0.0	0.1	0.0	0.0
77.5°	63.7	14.4	3.2	1.9	1.3	0.7	0.3	0.0	0.0	0.0	0.0
80°	13.9	6.4	2.0	1.2	0.7	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	5.1	3.3	1.0	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.7	1.7	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.6	0.1	0.1	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)