

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: P324925

Luminaire Tested: **GAN-SA1C-827-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324925
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1C-827-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4456 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

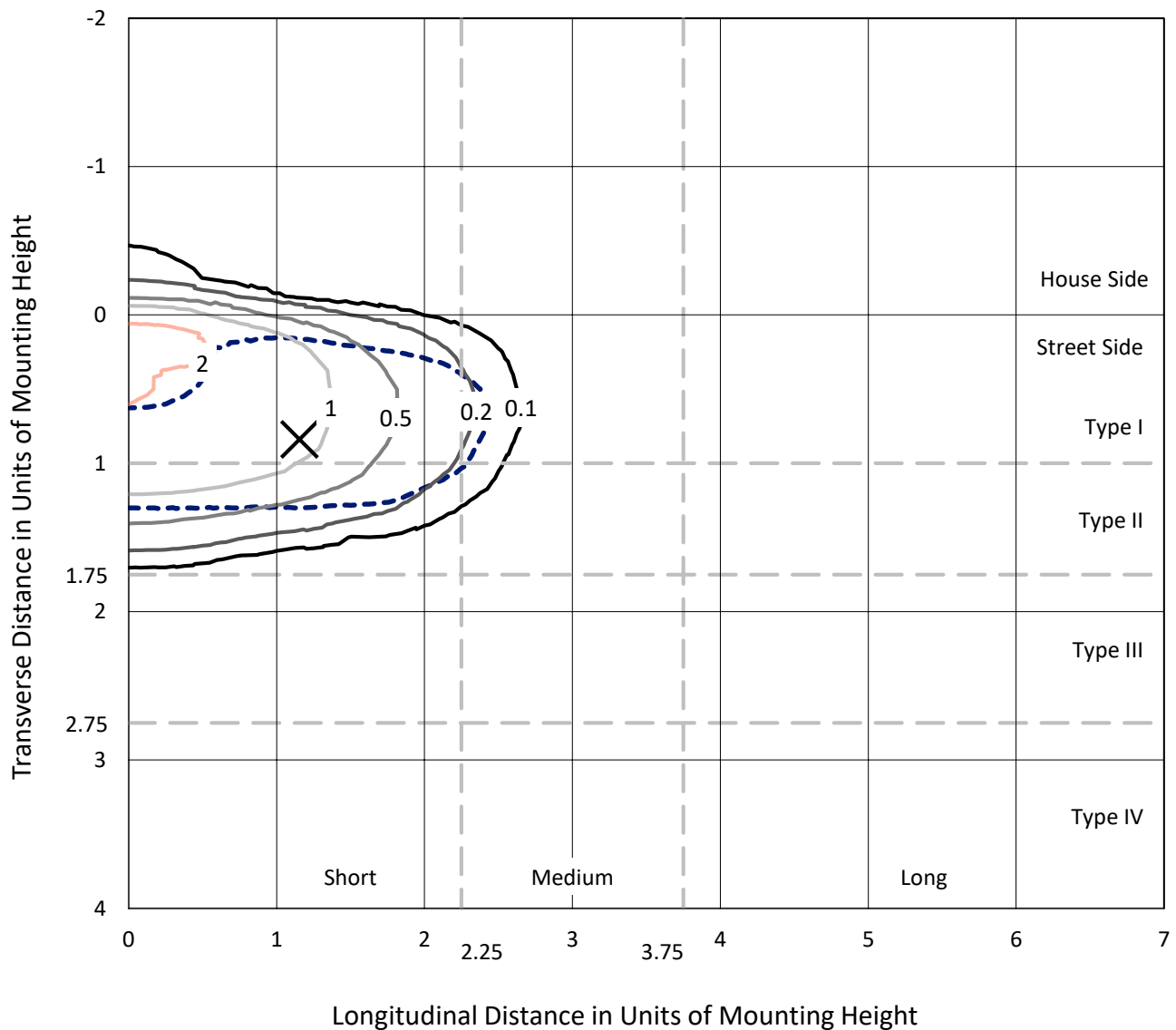
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

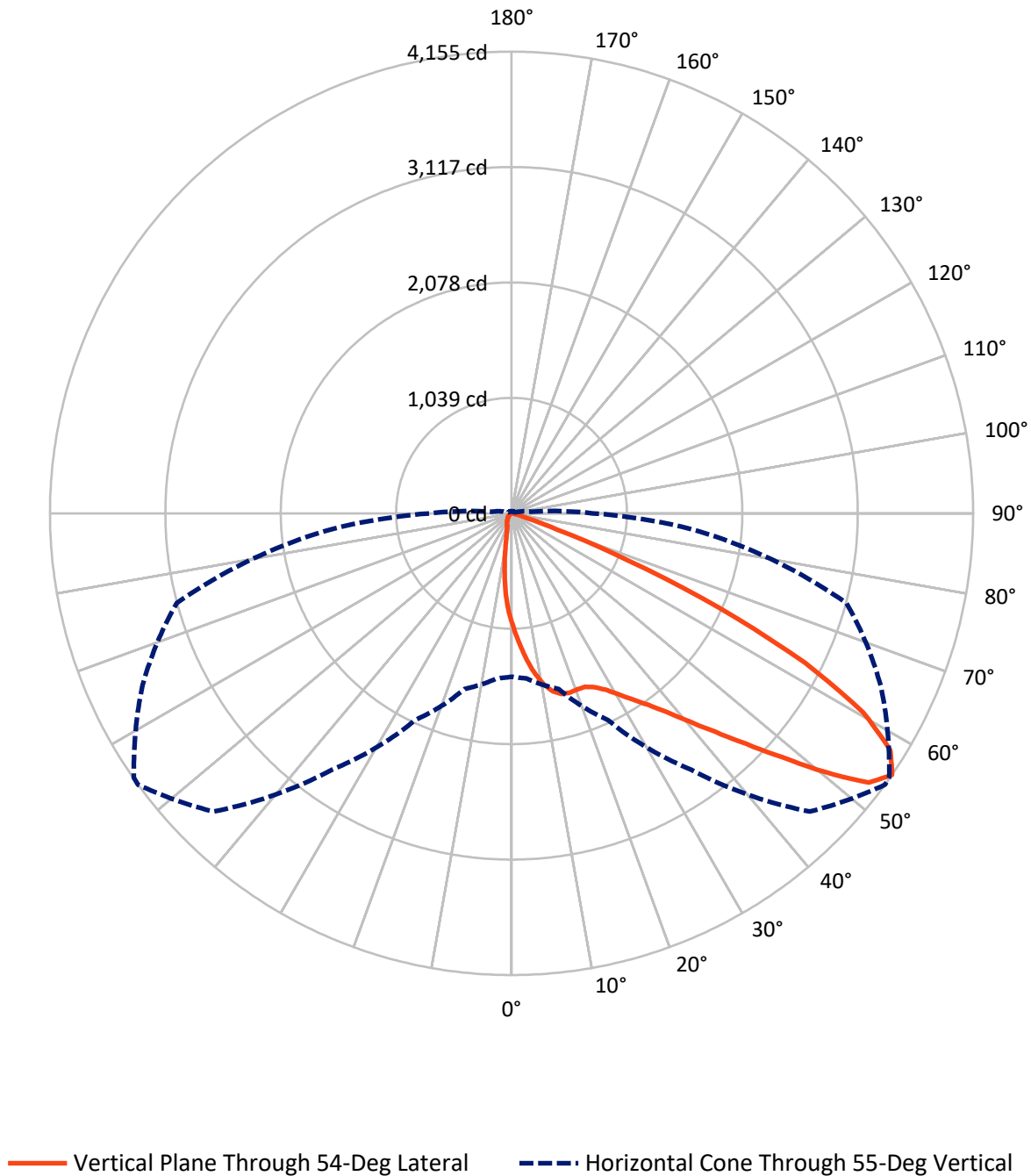
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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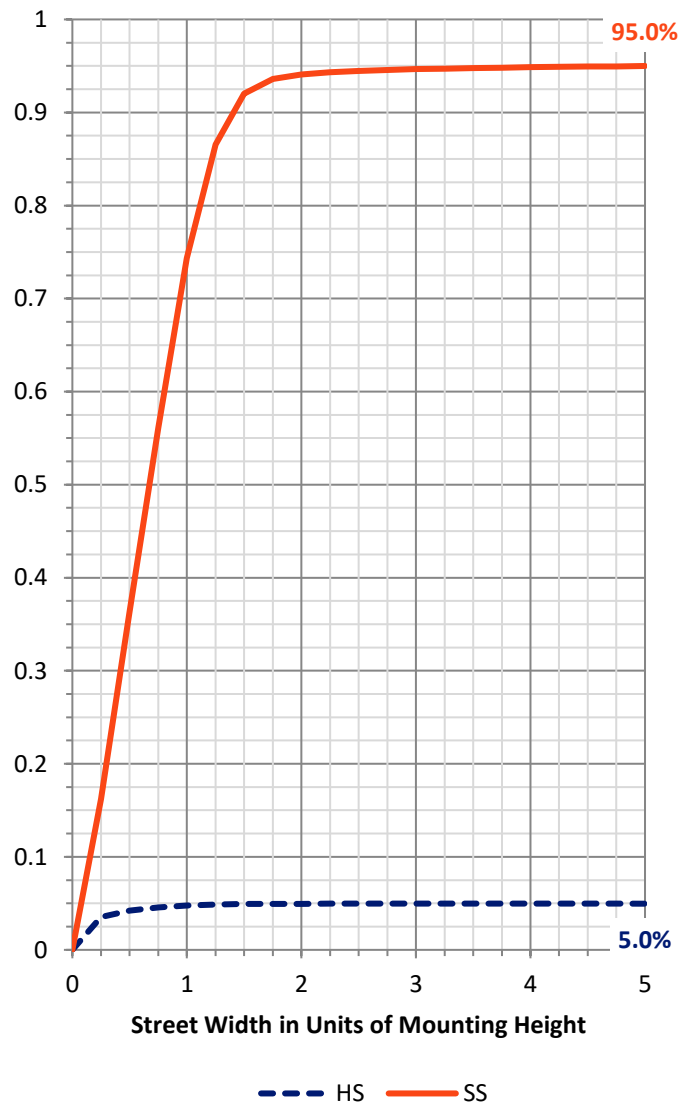
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	222.3	0.0	222.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4233.7	0.0	4233.7
	% Fixture	95.0	0.0	95.0
Total	Lumens	4456.0	0.0	4456.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	2.1
10°-20°	252.0	5.7
20°-30°	430.3	9.7
30°-40°	690.6	15.5
40°-50°	1103.6	24.8
50°-60°	1182.5	26.5
60°-70°	607.1	13.6
70°-80°	92.0	2.1
80°-90°	6.0	0.1
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°	4456.0	100.0
0°-180°	4456.0	100.0

Coefficient of Utilization



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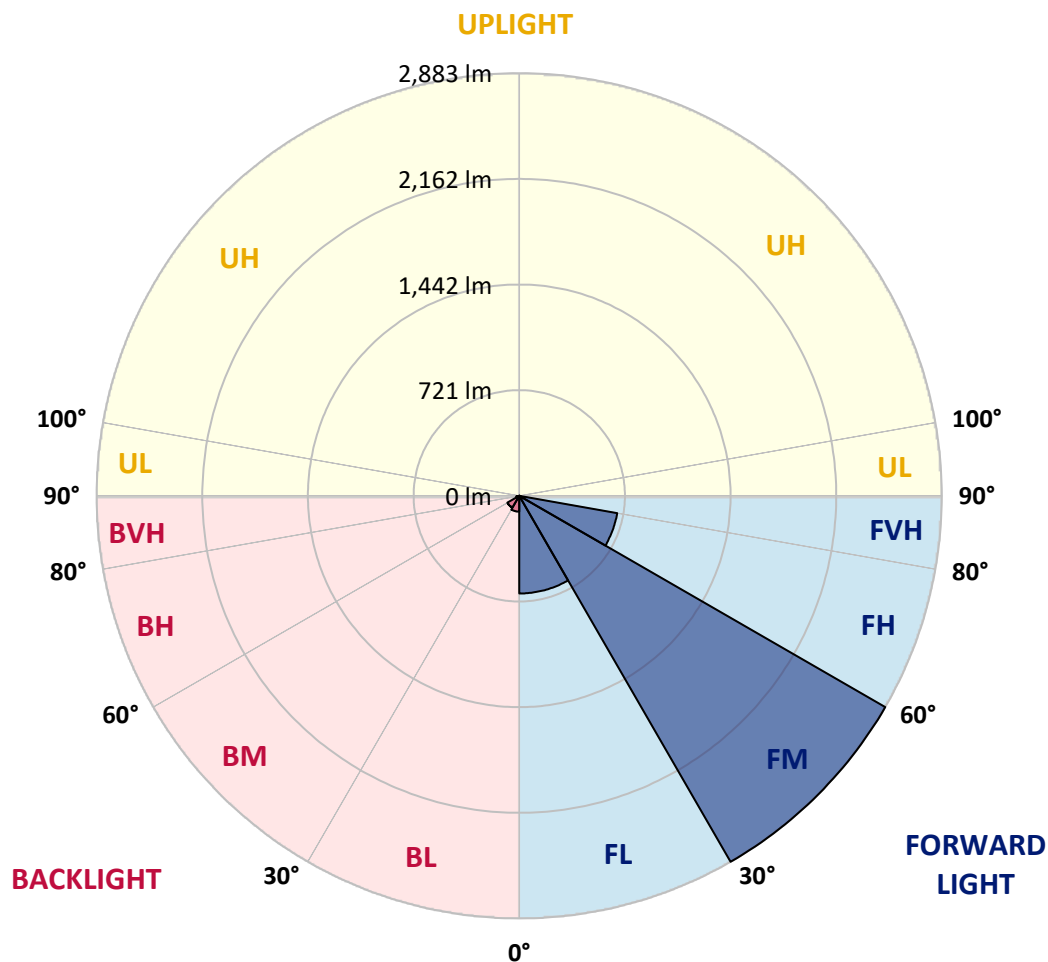
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.1	14.9			
FM	(30°-60°)	2883.2	64.7			
FH	(60°-80°)	678.6	15.2			G1/1800
FVH	(80°-90°)	5.7	0.1			G0/10
BL	(0°-30°)	108.2	2.4	B0/110		
BM	(30°-60°)	93.4	2.1	B0/220		
BH	(60°-80°)	20.5	0.5	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	998.0	998.0	998.0	998.0	998.0	998.0	998.0	998.0	998.0	998.0	998.0
2.5°	1252.4	1233.7	1234.3	1225.8	1194.8	1170.6	1145.4	1139.4	1100.1	1059.0	1019.3
5°	1468.9	1455.2	1451.9	1435.6	1392.5	1346.8	1298.0	1286.6	1209.8	1125.5	1042.6
7.5°	1580.1	1580.3	1577.6	1571.6	1544.7	1500.4	1440.8	1428.8	1324.3	1197.9	1066.9
10°	1547.8	1555.1	1570.1	1589.9	1610.5	1604.9	1560.1	1549.3	1435.8	1274.5	1093.8
12.5°	1472.3	1473.3	1490.0	1522.5	1581.8	1642.6	1643.4	1639.7	1542.2	1354.5	1123.4
15°	1434.8	1438.4	1444.6	1465.6	1521.8	1619.1	1688.8	1694.0	1639.7	1439.6	1155.0
17.5°	1459.4	1464.6	1459.4	1461.9	1494.4	1582.0	1696.7	1710.0	1725.0	1523.7	1184.8
20°	1526.2	1531.0	1521.8	1511.6	1517.9	1571.2	1691.1	1709.0	1791.8	1598.4	1209.8
22.5°	1616.3	1618.2	1604.1	1587.4	1582.8	1607.8	1695.7	1714.2	1845.3	1665.9	1225.6
25°	1715.4	1717.1	1699.6	1680.3	1669.4	1679.6	1733.6	1747.5	1892.4	1730.4	1234.7
27.5°	1823.3	1824.9	1802.9	1779.2	1766.5	1766.9	1796.2	1811.0	1942.6	1803.9	1242.0
30°	1937.4	1936.7	1916.5	1883.5	1867.4	1867.0	1886.2	1901.3	2015.4	1898.2	1252.0
32.5°	2065.6	2064.1	2035.4	1994.6	1976.3	1979.0	1996.1	2004.8	2105.6	1998.6	1269.9
35°	2234.4	2229.9	2186.6	2136.0	2102.3	2101.4	2115.8	2122.7	2220.7	2120.2	1299.7
37.5°	2453.3	2449.3	2390.6	2317.1	2269.8	2252.1	2269.2	2278.0	2384.8	2276.3	1347.6
40°	2669.3	2665.2	2630.4	2563.0	2490.1	2447.6	2461.0	2470.5	2589.8	2465.7	1408.0
42.5°	2818.2	2821.7	2833.8	2839.4	2771.1	2681.8	2687.9	2697.7	2805.1	2668.1	1477.1
45°	2857.5	2865.0	2933.5	3068.0	3093.6	3023.9	2959.4	2964.8	3023.9	2870.5	1546.2
47.5°	2739.5	2753.4	2885.6	3135.7	3352.4	3401.7	3279.7	3272.5	3233.9	3034.3	1595.3
50°	2471.4	2484.1	2655.4	3025.5	3430.9	3762.3	3663.4	3642.4	3418.0	3132.3	1612.6
52.5°	2083.5	2098.9	2238.0	2678.3	3282.9	3923.2	4026.7	4009.2	3553.1	3140.0	1615.5
55°	1471.4	1490.0	1637.2	2052.7	2814.0	3795.2	4155.4	4150.2	3665.3	3119.6	1621.6
57.5°	826.9	840.4	999.1	1315.9	2061.0	3305.6	4020.9	4055.4	3733.0	3084.1	1630.9
60°	367.2	370.8	453.0	655.0	1206.6	2526.3	3635.9	3694.0	3674.9	3036.8	1646.5
62.5°	203.6	200.5	200.5	272.3	524.4	1563.9	2964.8	3060.9	3426.9	2980.8	1647.2
65°	159.5	156.6	148.4	149.5	199.7	694.1	2053.1	2223.8	2955.8	2816.7	1591.8
67.5°	135.3	132.8	124.5	121.2	124.1	229.0	1128.1	1305.3	2242.8	2390.0	1378.8
70°	114.3	112.6	108.3	104.3	97.0	113.2	431.6	552.1	1382.1	1589.9	941.2
72.5°	92.0	91.2	92.8	89.3	80.4	75.4	147.6	178.8	620.8	709.5	387.8
75°	79.3	78.9	79.7	76.2	66.2	52.5	75.0	82.0	175.1	173.6	78.5
77.5°	51.6	52.1	66.0	64.5	57.0	35.0	38.9	42.0	53.1	39.8	23.9
80°	32.9	32.5	33.5	53.5	51.2	26.7	19.4	20.4	25.6	19.6	11.5
82.5°	20.0	19.6	21.9	25.0	25.8	18.7	11.9	12.1	16.0	12.7	6.2
85°	1.7	2.3	13.3	12.3	8.9	5.8	5.8	6.2	8.5	7.5	3.5
87.5°	0.0	0.0	2.3	3.5	1.9	2.1	2.1	2.3	3.3	3.3	1.7
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°	998.0	998.0	998.0	998.0	998.0	998.0	998.0	998.0	998.0	998.0	998.0
2.5°	998.7	978.7	938.3	899.4	866.5	834.8	798.6	762.8	746.1	739.3	732.4
5°	1000.5	959.3	876.0	792.1	705.1	626.8	560.0	491.5	457.2	442.2	435.3
7.5°	1002.8	940.0	805.3	664.5	524.4	418.2	325.4	265.8	240.0	235.9	225.9
10°	1003.2	916.8	723.4	523.6	351.6	252.1	194.0	163.2	151.8	149.9	146.6
12.5°	1003.9	889.2	632.3	387.8	234.4	168.6	140.3	130.1	127.0	126.8	126.8
15°	1006.2	860.4	537.9	279.4	168.4	133.5	123.2	119.1	118.0	118.5	118.3
17.5°	1006.2	826.3	445.1	208.2	136.1	120.1	114.3	111.6	111.2	111.8	112.0
20°	998.9	784.9	360.0	162.0	120.7	111.4	106.2	103.7	102.8	103.1	103.3
22.5°	981.4	734.1	290.8	134.1	110.5	103.5	97.9	94.1	92.6	92.8	92.8
25°	954.1	673.9	227.5	116.0	102.2	95.1	88.5	84.1	83.1	82.9	83.3
27.5°	919.1	607.3	181.1	102.2	92.4	85.6	79.1	75.4	74.7	74.9	75.0
30°	884.6	538.2	142.8	90.4	81.4	75.0	70.0	68.3	68.3	68.9	69.1
32.5°	853.1	471.8	113.0	80.2	71.6	65.8	62.9	62.7	63.7	64.1	64.3
35°	825.9	410.5	93.5	72.4	63.9	58.9	57.9	58.7	59.8	60.6	60.8
37.5°	806.7	355.6	81.8	65.8	57.9	53.9	53.7	55.2	56.8	58.5	58.9
40°	798.6	309.2	73.7	60.0	53.1	50.0	49.5	51.6	54.5	57.0	57.3
42.5°	791.9	271.3	66.8	54.5	49.3	44.8	44.6	47.3	50.8	53.3	53.9
45°	786.1	240.9	60.4	48.5	44.3	38.5	39.1	42.5	45.2	47.9	48.5
47.5°	774.2	215.9	53.5	42.1	36.6	32.9	34.1	37.1	39.3	43.3	43.9
50°	752.8	195.5	46.4	34.4	29.8	28.5	30.2	32.3	35.0	38.5	38.9
52.5°	738.4	180.1	40.2	28.9	24.6	25.0	26.7	27.5	29.1	30.4	30.0
55°	730.1	171.7	35.2	25.0	21.0	22.1	22.5	21.6	20.8	19.4	18.9
57.5°	729.1	164.0	31.4	21.7	18.5	19.1	17.7	14.4	11.7	10.2	9.8
60°	727.6	154.5	28.3	18.3	16.4	15.6	12.7	7.9	5.6	5.2	5.2
62.5°	710.9	139.9	26.0	15.4	13.9	11.7	7.3	3.7	3.1	3.3	3.3
65°	657.5	119.5	23.7	12.5	11.0	8.5	3.7	2.1	1.2	1.3	1.3
67.5°	559.0	95.3	21.2	9.6	8.3	5.4	2.1	1.0	0.0	0.0	0.0
70°	374.3	59.1	17.9	6.7	5.4	3.3	1.5	0.2	0.0	0.0	0.0
72.5°	143.6	31.9	14.4	4.0	3.5	2.3	1.0	0.0	0.0	0.0	0.0
75°	32.3	21.0	10.0	2.9	2.5	1.5	0.4	0.0	0.0	0.0	0.0
77.5°	12.3	15.2	5.8	1.9	1.7	1.0	0.0	0.0	0.0	0.0	0.0
80°	6.0	9.0	2.7	1.2	1.0	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	3.5	1.2	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	1.7	1.7	0.6	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.6	0.2	0.2	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)