

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: P321405

Luminaire Tested: **GAN-SA1C-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321405
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-SA1C-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1050mA 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: 4395 lumens
Efficiency: N/A
Efficacy: 74.5 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

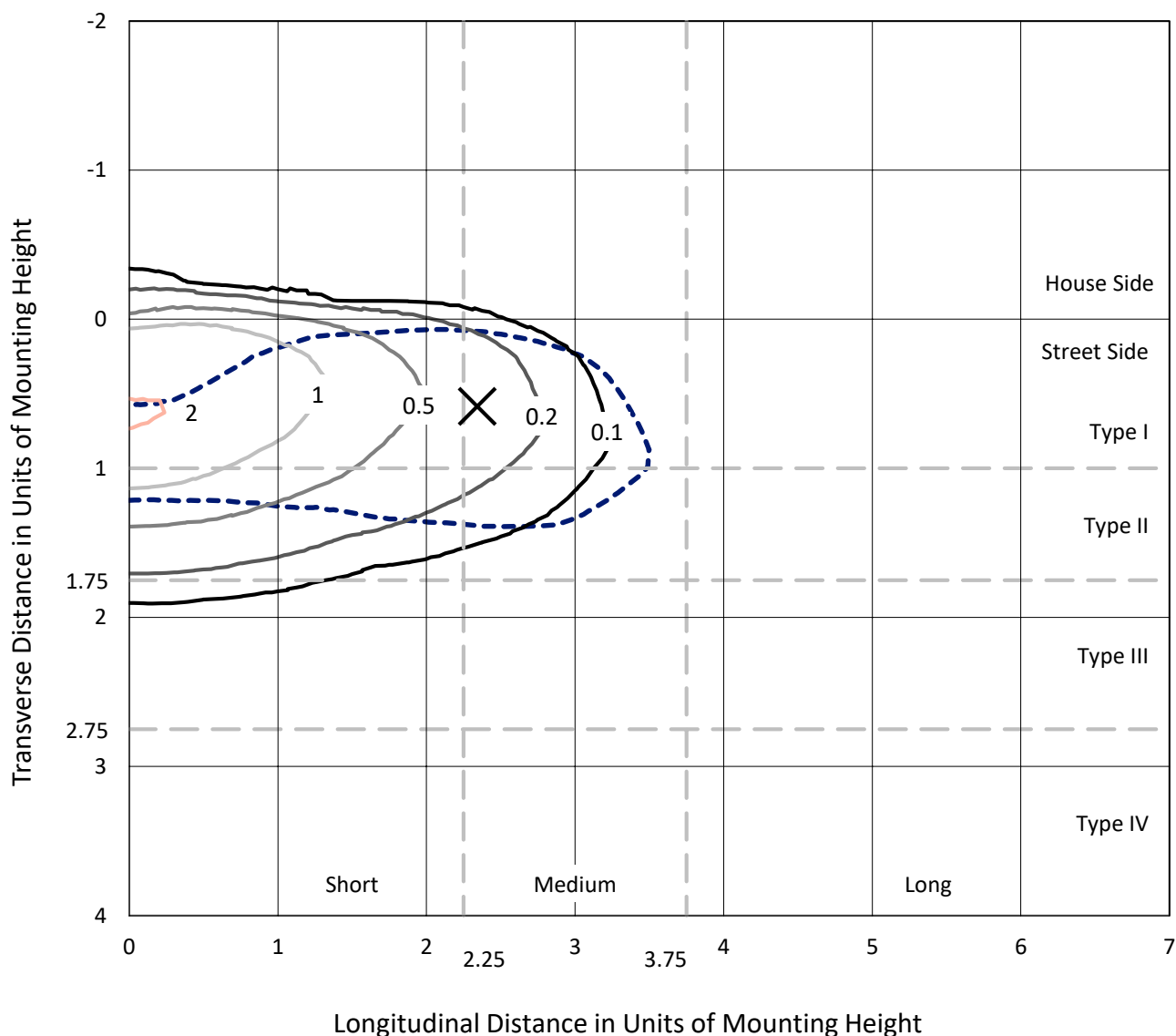
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

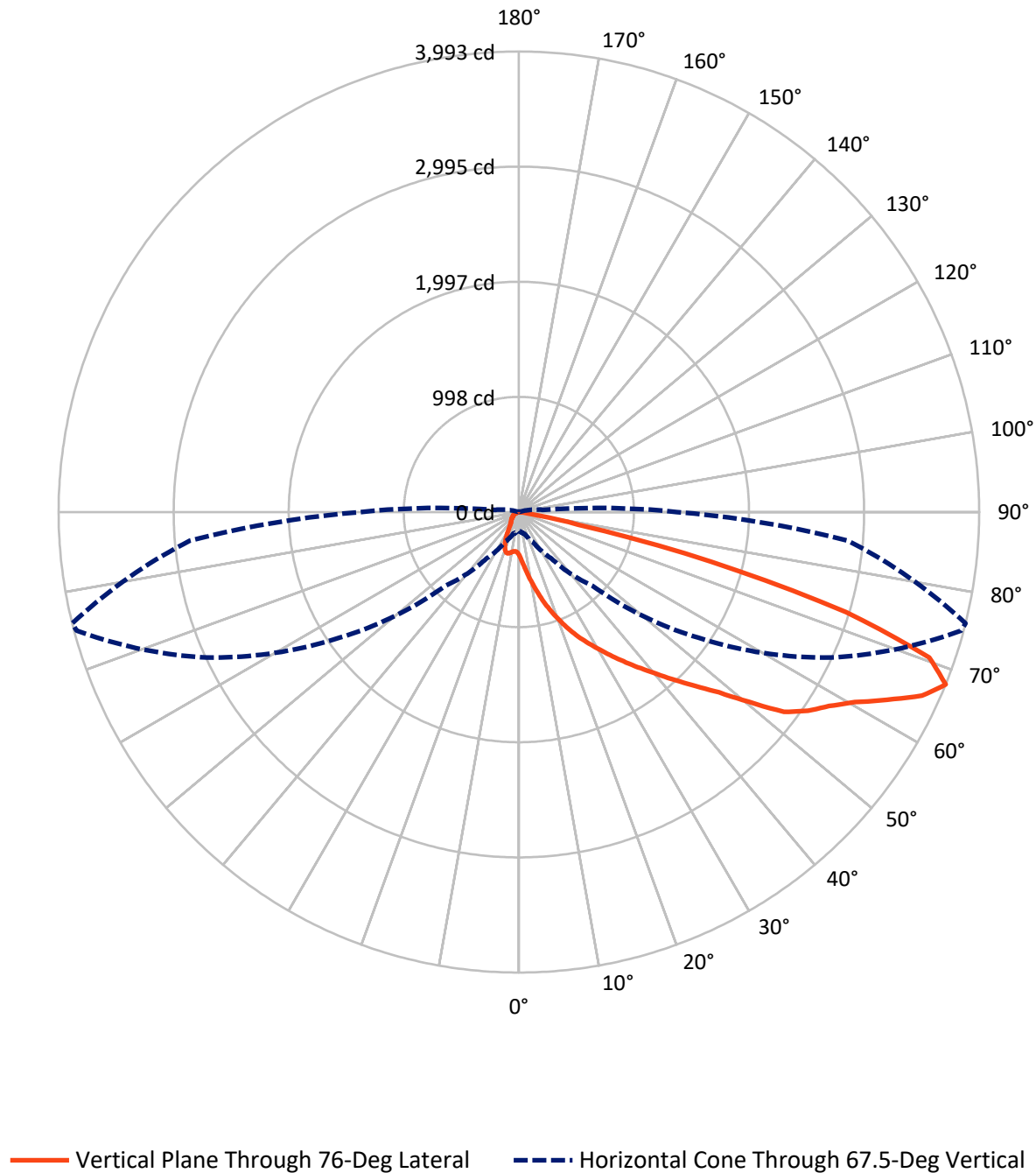
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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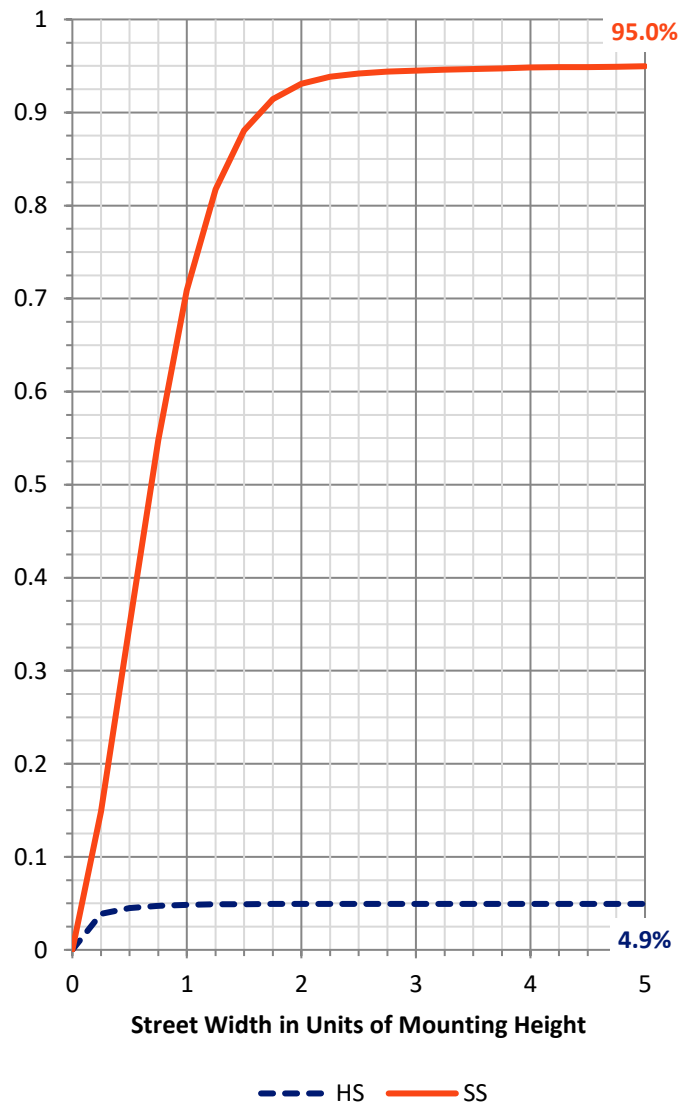
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	218.2	0.0	218.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4176.8	0.0	4176.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	4395.0	0.0	4395.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.4	1.1
10°-20°	183.8	4.2
20°-30°	373.9	8.5
30°-40°	649.0	14.8
40°-50°	917.0	20.9
50°-60°	1039.9	23.7
60°-70°	862.5	19.6
70°-80°	312.4	7.1
80°-90°	10.1	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°	4395.0	100.0
0°-180°	4395.0	100.0

Coefficient of Utilization



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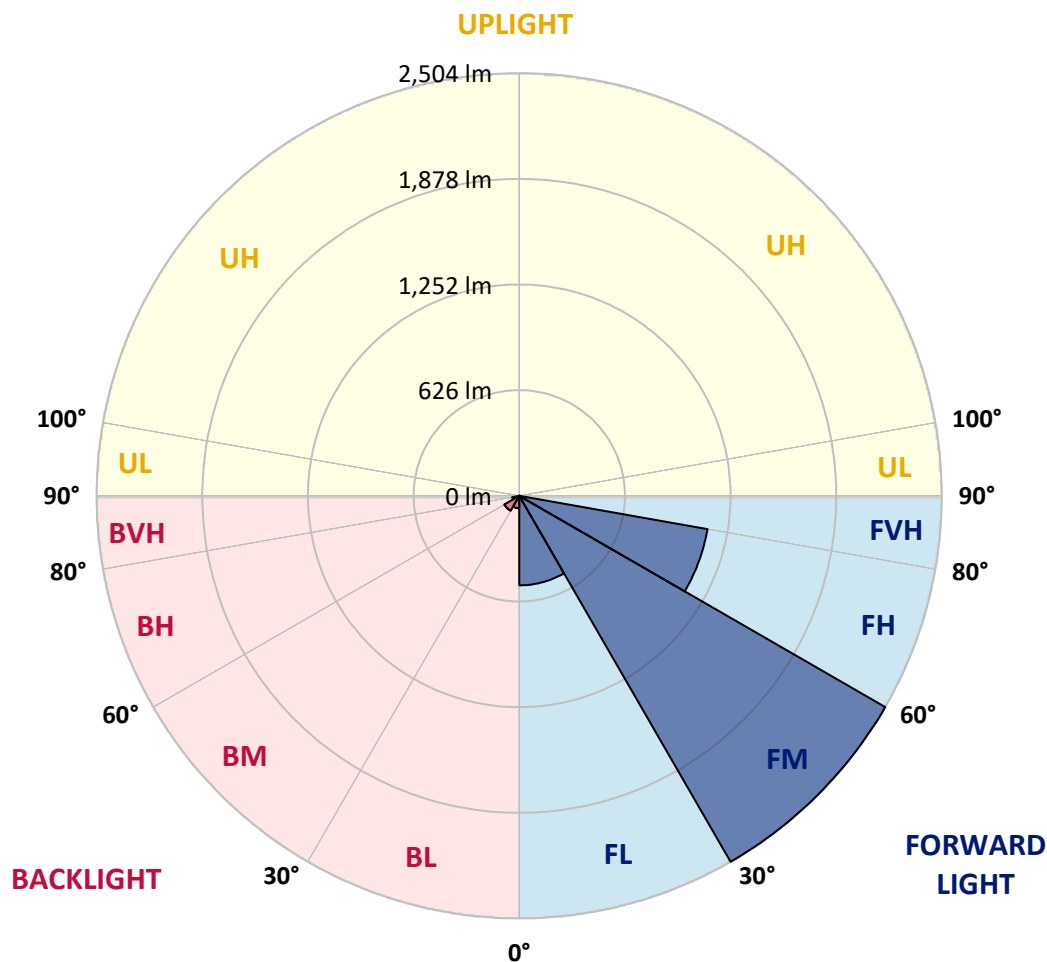
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.5	12.1			
FM	(30°-60°)	2503.7	57.0			
FH	(60°-80°)	1132.7	25.8			G1/1800
FVH	(80°-90°)	9.8	0.2			G0/10
BL	(0°-30°)	73.6	1.7	B0/110		
BM	(30°-60°)	102.1	2.3	B0/220		
BH	(60°-80°)	42.2	1.0	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	372.8	372.8	372.8	372.8	372.8	372.8	372.8	372.8	372.8	372.8	372.8
2.5°	556.5	544.0	546.9	538.8	524.2	494.1	468.5	444.3	416.0	415.0	391.7
5°	750.5	739.9	738.5	722.2	695.6	644.5	594.9	538.2	475.1	470.5	421.0
7.5°	926.5	918.0	914.9	895.5	846.0	796.3	731.6	648.4	549.6	541.1	460.4
10°	1061.7	1057.6	1058.4	1044.5	1002.2	955.9	871.0	764.9	634.1	621.1	507.8
12.5°	1164.1	1165.1	1172.0	1163.5	1139.8	1105.6	1014.9	889.1	727.7	709.8	561.9
15°	1239.4	1244.2	1256.9	1267.5	1265.8	1236.1	1152.9	1015.3	827.1	807.3	622.2
17.5°	1288.1	1293.5	1312.0	1335.5	1357.1	1350.1	1286.2	1137.0	927.6	904.7	686.7
20°	1330.9	1337.2	1357.1	1388.1	1428.3	1437.0	1395.0	1255.0	1028.0	1000.0	753.3
22.5°	1423.5	1423.3	1435.4	1453.5	1491.9	1514.2	1487.6	1364.6	1127.1	1098.1	821.3
25°	1591.0	1584.7	1580.5	1566.2	1574.7	1588.5	1573.7	1467.0	1226.9	1197.4	890.3
27.5°	1790.2	1794.0	1759.7	1721.4	1691.8	1677.5	1653.2	1562.0	1322.8	1290.4	957.7
30°	2000.3	2001.4	1961.0	1912.1	1846.8	1792.7	1750.7	1652.7	1421.4	1386.1	1023.1
32.5°	2189.8	2182.2	2142.2	2075.6	1993.1	1932.3	1845.1	1754.0	1525.8	1491.7	1095.9
35°	2340.0	2331.1	2282.4	2221.7	2136.2	2075.0	1970.0	1855.1	1635.5	1602.2	1168.9
37.5°	2449.7	2439.3	2389.3	2326.9	2253.1	2217.5	2115.0	1965.0	1755.3	1719.5	1245.8
40°	2487.9	2478.8	2447.4	2401.8	2342.5	2334.4	2268.9	2091.5	1885.7	1847.6	1332.8
42.5°	2465.1	2456.3	2445.1	2429.7	2405.1	2412.8	2414.1	2235.8	2030.5	1992.9	1428.9
45°	2375.0	2367.1	2378.7	2401.2	2431.8	2470.0	2546.6	2390.8	2192.3	2152.2	1540.0
47.5°	2242.3	2236.6	2268.5	2324.8	2414.3	2519.4	2667.7	2553.7	2373.9	2336.7	1678.7
50°	2053.6	2052.6	2116.6	2219.2	2356.9	2543.3	2792.9	2739.0	2626.1	2587.0	1871.4
52.5°	1759.7	1761.7	1887.4	2051.7	2256.2	2527.1	2873.4	2977.0	2919.6	2879.0	2038.4
55°	1479.9	1491.5	1580.6	1817.5	2101.8	2467.1	2901.1	3088.1	3081.6	3043.1	2131.2
57.5°	1205.9	1226.9	1312.8	1534.0	1876.2	2328.6	2885.9	3136.3	3202.1	3172.7	2253.7
60°	908.9	918.6	1017.6	1224.4	1586.8	2075.9	2775.6	3162.5	3367.0	3346.6	2431.4
62.5°	578.3	602.4	690.2	889.7	1235.6	1725.1	2589.5	3162.1	3573.2	3584.4	2660.8
65°	304.7	332.8	379.4	551.3	849.1	1333.2	2309.7	3132.4	3826.3	3841.9	2840.1
67.5°	164.3	172.4	197.0	286.2	492.4	903.2	1898.6	2986.1	3972.8	3993.4	2865.1
70°	120.2	124.6	133.8	158.3	247.8	524.6	1385.4	2654.2	3783.9	3776.2	2545.6
72.5°	92.2	99.2	106.1	115.9	142.5	280.0	862.5	2078.5	3019.2	2968.3	1902.8
75°	72.8	73.9	83.8	92.6	106.9	159.5	383.0	1210.5	1842.7	1722.4	986.7
77.5°	58.2	58.9	64.7	72.4	85.9	104.8	118.6	476.2	588.3	525.0	214.1
80°	34.5	36.4	48.1	55.8	71.3	66.1	43.3	103.4	91.9	83.2	36.0
82.5°	19.3	20.8	27.2	44.1	49.7	31.6	21.6	27.9	21.6	21.0	10.2
85°	0.0	1.0	17.5	27.3	20.2	6.9	9.1	9.2	6.4	6.0	4.0
87.5°	0.0	0.0	5.4	5.2	0.8	1.2	2.1	3.1	2.5	2.5	2.1
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°	372.8	372.8	372.8	372.8	372.8	372.8	372.8	372.8	372.8	372.8	372.8
2.5°	380.1	369.7	350.1	330.8	314.7	301.4	289.4	284.6	280.8	280.2	277.1
5°	397.1	376.1	338.5	307.7	287.1	272.5	260.0	252.3	246.3	244.0	241.9
7.5°	422.7	390.9	337.0	301.6	276.9	252.3	229.2	204.1	188.5	182.6	179.1
10°	453.9	410.6	342.8	299.8	256.7	204.7	166.4	134.6	121.7	117.5	116.3
12.5°	490.3	435.0	352.8	289.1	213.6	145.4	114.8	104.0	101.1	99.8	99.8
15°	532.1	461.8	359.9	257.9	157.9	110.0	99.4	94.4	91.3	89.5	89.7
17.5°	574.8	488.0	356.5	212.6	116.5	97.8	89.9	84.5	80.3	78.6	78.2
20°	618.0	512.2	337.2	158.3	98.6	88.8	79.9	73.9	69.7	68.0	67.6
22.5°	662.6	532.9	303.3	116.1	88.6	78.8	70.1	64.1	60.1	58.5	57.8
25°	706.2	549.6	255.9	94.0	79.1	69.3	61.0	55.5	51.8	50.3	50.1
27.5°	746.8	560.2	201.0	83.0	70.9	60.9	53.3	48.3	45.3	44.1	43.9
30°	783.4	561.2	148.7	74.9	63.5	53.5	46.6	42.2	39.5	38.3	37.9
32.5°	820.4	553.1	108.2	67.6	56.8	47.2	40.4	37.0	35.0	34.1	34.1
35°	855.2	534.4	84.3	61.2	50.3	41.0	35.6	33.1	32.0	31.0	31.0
37.5°	889.3	507.6	71.6	55.7	44.1	35.8	31.4	29.8	28.9	27.9	27.9
40°	924.0	473.9	65.1	50.5	39.1	31.8	27.9	26.6	25.6	24.8	24.6
42.5°	966.5	435.0	60.9	45.6	34.7	28.1	24.6	23.1	22.3	21.6	21.2
45°	1015.8	401.5	57.4	40.8	31.0	25.0	21.4	19.8	18.7	17.7	17.5
47.5°	1086.9	377.3	52.8	35.6	27.5	21.8	18.5	16.8	15.0	14.1	13.9
50°	1177.6	357.2	46.8	31.0	24.1	18.5	15.4	13.3	11.7	10.8	10.8
52.5°	1222.7	331.0	41.4	27.0	20.2	15.6	12.5	10.0	9.2	8.3	8.3
55°	1240.8	311.0	36.0	22.9	16.8	12.9	9.8	7.7	7.1	6.5	6.4
57.5°	1291.6	305.2	31.4	19.4	13.9	10.2	7.5	5.8	5.4	4.6	4.6
60°	1373.4	308.1	27.2	16.6	11.2	7.9	5.6	4.4	4.0	3.3	3.3
62.5°	1461.8	304.5	22.9	14.3	8.7	5.8	3.9	3.3	3.3	1.9	1.7
65°	1478.8	271.1	19.6	11.7	6.7	4.2	2.5	2.1	2.9	0.4	0.0
67.5°	1372.5	210.3	16.9	9.1	5.0	3.3	1.9	1.0	2.5	0.0	0.0
70°	1097.5	133.6	13.7	6.5	3.9	2.7	1.5	0.4	1.9	0.0	0.0
72.5°	776.1	77.6	10.8	4.6	3.3	2.1	1.2	0.0	1.2	0.0	0.0
75°	392.5	41.4	6.7	3.5	2.5	1.5	0.8	0.0	0.2	0.0	0.0
77.5°	84.9	19.3	4.2	2.5	1.7	1.0	0.4	0.0	0.0	0.0	0.0
80°	18.5	8.5	2.7	1.5	1.0	0.6	0.0	0.0	0.0	0.0	0.0
82.5°	6.7	4.4	1.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	2.3	0.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.8	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)