

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: P322495

Luminaire Tested: **GAN-SA1D-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322495
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1D-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4824 lumens
Efficiency: N/A
Efficacy: 72.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

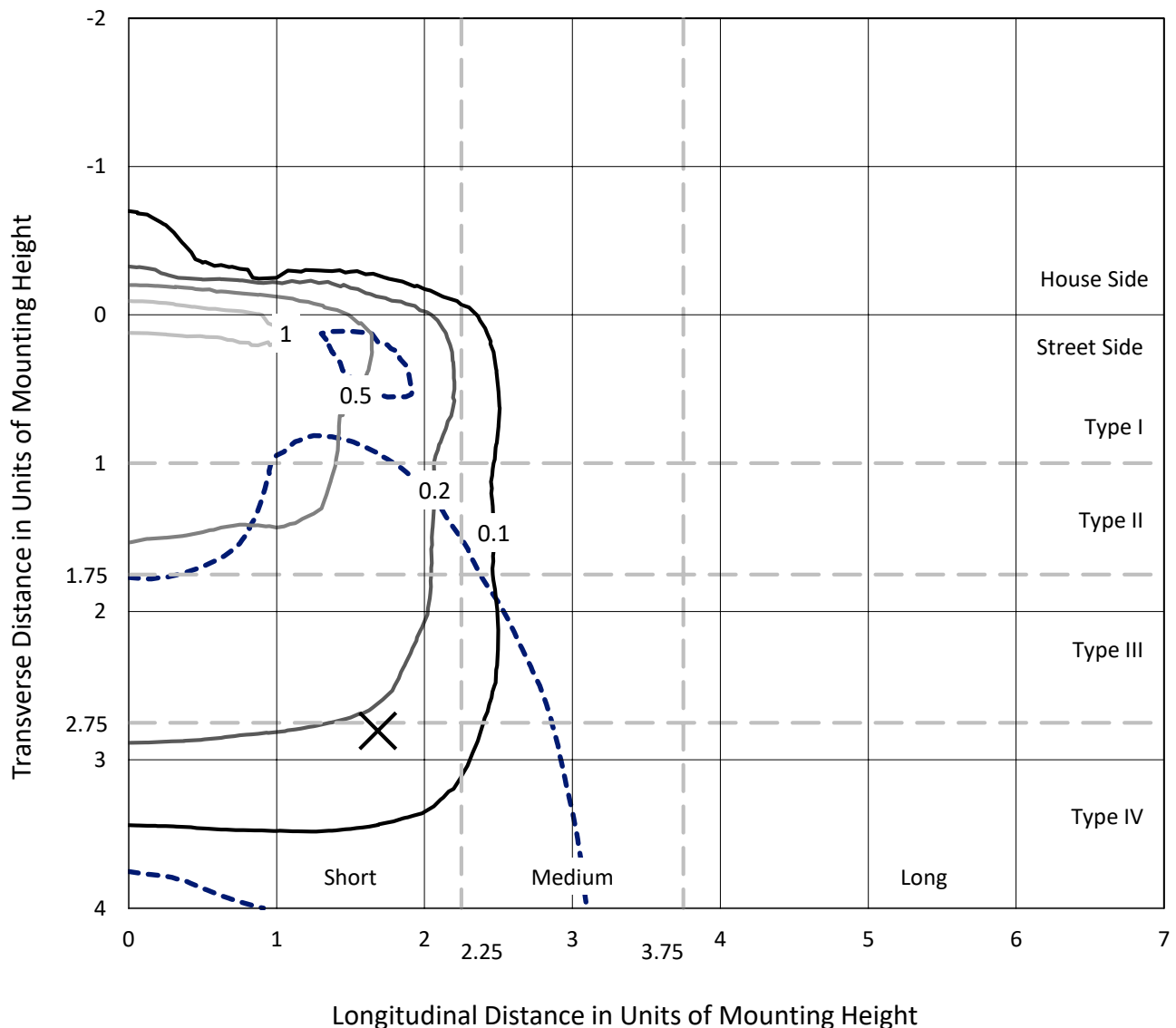
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

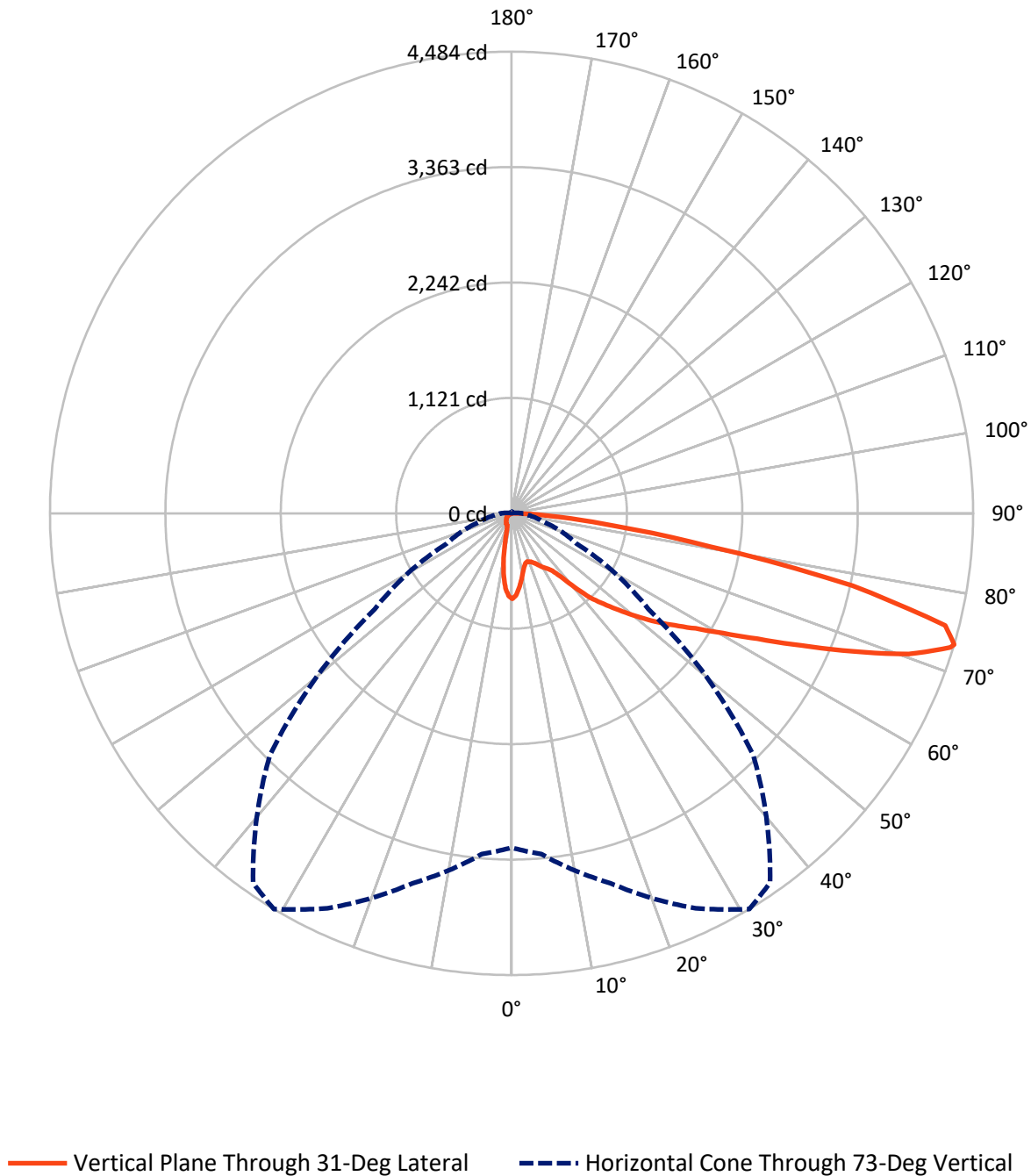
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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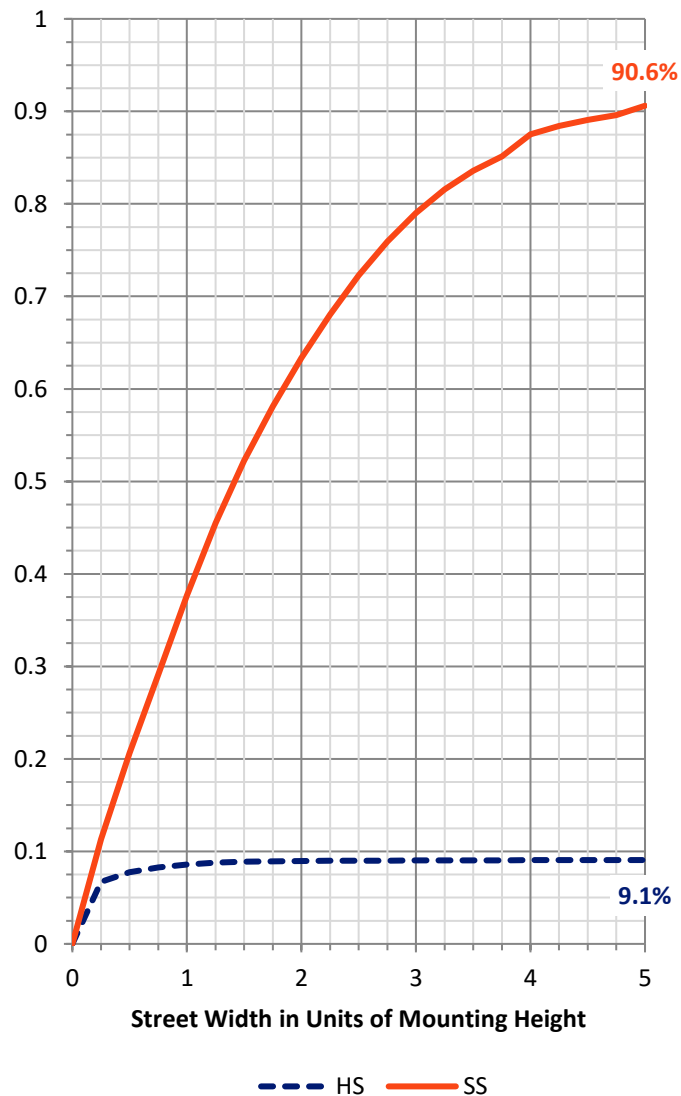
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	439.7	0.0	439.7
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	4384.3	0.0	4384.3
	% Fixture	90.9	0.0	90.9
Total	Lumens	4824.0	0.0	4824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.8	1.4
10°-20°	149.4	3.1
20°-30°	223.9	4.6
30°-40°	356.2	7.4
40°-50°	636.1	13.2
50°-60°	987.0	20.5
60°-70°	1312.0	27.2
70°-80°	986.9	20.5
80°-90°	103.7	2.1
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°	4824.0	100.0
0°-180°	4824.0	100.0

Coefficient of Utilization



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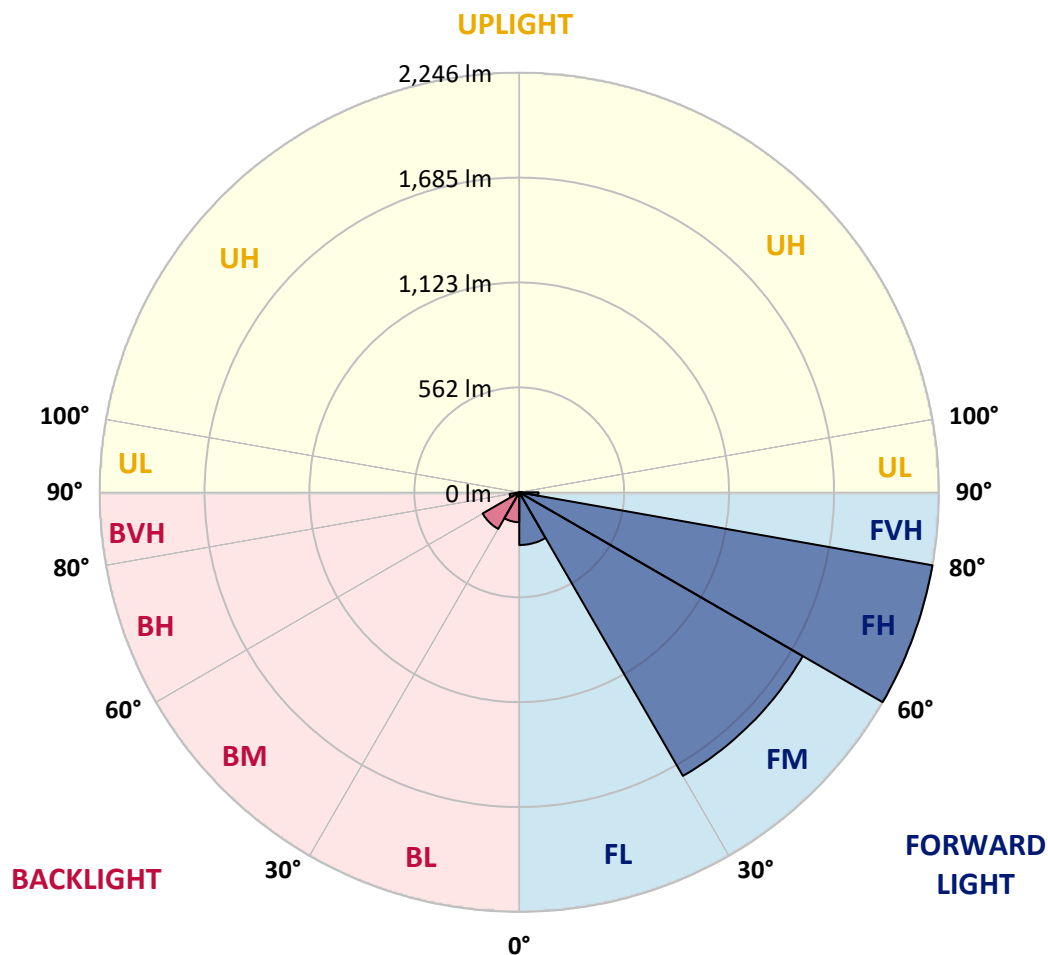
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.2	5.9			
FM	(30°-60°)	1752.9	36.3			
FH	(60°-80°)	2246.4	46.6			G2/5000
FVH	(80°-90°)	102.8	2.1			G2/225
BL	(0°-30°)	159.9	3.3	B1/500		
BM	(30°-60°)	226.3	4.7	B1/1000		
BH	(60°-80°)	52.6	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0
2.5°	786.5	789.8	793.4	794.1	800.0	800.2	808.7	815.1	821.5	827.6	829.7
5°	705.8	711.2	717.6	724.0	736.5	741.5	762.2	783.5	803.8	823.1	832.6
7.5°	619.7	625.8	634.8	650.6	664.5	674.2	707.0	744.8	782.5	818.2	838.7
10°	541.0	546.7	556.2	572.9	594.4	607.6	651.8	704.2	759.6	813.7	847.9
12.5°	491.0	494.1	499.3	517.2	536.6	551.4	603.4	668.3	740.7	813.5	862.8
15°	481.8	482.7	478.5	486.5	501.6	516.0	568.7	639.2	726.3	817.2	882.1
17.5°	496.4	496.0	481.8	480.8	492.9	504.7	551.7	619.2	716.2	826.0	907.2
20°	518.6	517.0	492.4	487.9	500.7	511.8	550.5	611.6	712.4	840.6	937.6
22.5°	548.1	545.3	506.8	502.1	515.8	527.4	565.1	618.9	715.7	860.2	973.0
25°	584.7	580.5	531.6	526.4	540.3	551.9	591.3	640.0	725.6	884.0	1017.9
27.5°	626.0	619.9	571.3	557.8	573.6	585.7	626.3	672.1	741.2	909.3	1072.9
30°	665.0	656.9	613.0	590.9	610.2	623.7	664.0	710.3	766.2	948.2	1148.2
32.5°	704.2	695.2	650.3	623.9	641.4	656.0	703.0	762.9	813.2	1007.7	1248.3
35°	794.3	784.9	729.9	686.2	686.0	694.2	757.5	834.9	875.3	1090.6	1367.7
37.5°	946.1	940.7	888.3	805.4	783.2	774.0	831.9	920.9	964.5	1204.6	1502.5
40°	1112.3	1107.6	1048.8	973.7	940.0	917.3	938.6	1040.5	1090.6	1343.9	1640.1
42.5°	1300.0	1277.5	1172.7	1150.3	1120.1	1102.9	1083.7	1188.1	1245.4	1495.4	1776.6
45°	1470.4	1432.6	1296.7	1262.7	1255.8	1260.1	1270.7	1386.4	1419.7	1675.5	1912.5
47.5°	1571.9	1542.2	1437.8	1405.3	1403.4	1431.5	1511.7	1610.4	1593.2	1832.5	2032.2
50°	1668.5	1641.5	1554.9	1562.9	1571.7	1609.9	1785.3	1840.8	1751.5	1974.9	2142.0
52.5°	1746.6	1705.5	1660.2	1705.3	1748.2	1809.9	2067.6	2047.6	1863.9	2088.2	2235.9
55°	1791.7	1773.0	1795.0	1840.3	1921.0	2021.1	2334.1	2219.7	1946.1	2191.6	2298.5
57.5°	1956.9	1920.3	1964.0	2003.2	2108.5	2248.5	2562.4	2347.8	2005.3	2255.5	2312.9
60°	2156.9	2127.4	2153.1	2218.2	2360.3	2524.9	2775.8	2452.4	2036.2	2296.6	2275.6
62.5°	2475.1	2436.1	2420.1	2493.0	2681.4	2861.0	2937.7	2524.9	2029.4	2278.4	2147.7
65°	2901.4	2861.0	2789.3	2855.4	3095.0	3221.7	3118.8	2540.2	1982.2	2131.4	1824.3
67.5°	3338.1	3308.8	3247.4	3358.9	3575.1	3615.9	3310.2	2502.9	1830.2	1728.2	1288.9
70°	3626.6	3614.0	3653.9	3900.4	4093.2	4081.4	3485.9	2302.5	1426.5	1062.7	637.6
72.5°	3418.6	3478.5	3773.1	4220.0	4455.6	4359.3	3395.7	1768.1	815.3	408.9	184.4
73°	3246.3	3323.0	3719.6	4232.0	4484.2	4378.6	3319.9	1622.9	695.0	322.7	139.7
75°	2258.4	2352.6	3079.4	3941.5	4350.5	4171.8	2767.3	993.3	322.0	143.1	56.4
77.5°	1096.5	1166.1	1695.6	2847.8	3383.4	3259.5	1722.7	370.1	145.4	89.5	26.0
80°	409.3	455.1	736.0	1449.4	1955.3	2006.5	757.7	140.0	96.8	72.0	13.2
82.5°	107.2	119.4	271.5	646.3	1002.1	1048.8	238.9	70.6	70.8	59.3	8.0
85°	34.2	39.2	84.7	290.1	472.1	414.5	62.3	34.2	51.5	44.1	4.5
87.5°	4.2	5.4	26.9	68.2	104.1	57.8	9.7	10.2	22.0	24.6	2.6
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°	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0	830.0
2.5°	831.9	830.7	830.9	824.8	820.8	812.7	804.5	800.7	796.7	795.0	796.7
5°	836.1	834.0	827.9	809.0	788.9	762.9	738.6	720.2	697.1	690.7	697.3
7.5°	842.7	838.5	820.5	782.1	737.4	687.9	632.2	591.6	558.3	536.8	544.6
10°	852.4	844.4	808.3	742.9	663.1	575.3	496.2	434.6	390.9	373.0	372.3
12.5°	868.7	853.6	793.2	691.9	572.2	455.1	351.5	284.7	249.3	226.4	225.9
15°	886.6	864.4	774.0	630.7	466.5	326.0	226.4	175.6	152.7	145.4	144.5
17.5°	908.6	877.0	749.2	555.4	355.7	216.0	147.8	133.1	132.2	131.5	131.5
20°	936.2	891.8	717.4	469.3	252.3	144.2	125.6	126.5	127.0	126.1	126.3
22.5°	968.3	906.9	679.4	376.7	170.7	120.6	120.2	121.3	121.8	121.3	121.6
25°	1005.6	924.4	633.1	279.7	123.2	114.5	115.7	117.3	118.5	118.5	118.5
27.5°	1051.9	945.6	577.4	195.2	106.5	108.1	111.4	114.5	116.1	116.6	116.6
30°	1112.1	972.1	510.6	133.8	96.8	99.6	105.8	111.7	114.7	115.2	115.4
32.5°	1188.1	1001.8	433.2	98.9	88.5	90.6	97.3	107.2	113.1	114.0	114.0
35°	1275.2	1036.3	349.8	86.2	82.6	83.3	88.5	99.9	110.2	112.8	113.1
37.5°	1370.6	1070.3	266.0	80.5	77.7	77.7	81.4	91.1	103.4	111.4	112.4
40°	1459.5	1090.8	186.5	76.0	73.2	73.2	76.5	83.6	95.1	107.2	109.8
42.5°	1541.7	1097.9	129.8	71.8	68.9	69.6	72.5	78.1	86.9	98.9	101.3
45°	1626.2	1096.7	94.7	66.8	64.7	66.8	68.9	73.2	79.6	86.4	86.9
47.5°	1689.9	1086.8	75.1	62.1	60.7	63.5	65.4	68.2	71.8	71.3	71.3
50°	1749.7	1062.7	60.4	55.7	56.7	60.0	60.9	61.8	62.1	57.6	57.1
52.5°	1795.0	1025.2	48.4	48.9	52.6	55.9	55.0	53.6	51.2	45.8	44.9
55°	1810.1	953.0	38.0	40.4	46.7	51.0	47.4	44.4	39.9	35.4	34.5
57.5°	1782.7	859.7	30.9	31.4	39.4	43.0	38.9	35.4	30.5	26.7	26.0
60°	1724.6	756.1	25.5	23.6	30.5	33.5	30.9	27.4	22.9	20.1	19.8
62.5°	1609.4	645.6	21.0	18.4	23.1	25.7	24.1	21.5	17.7	15.8	15.6
65°	1367.2	516.5	17.0	14.9	17.9	20.1	18.6	16.8	13.9	12.5	12.3
67.5°	954.4	349.1	13.9	12.3	14.2	15.8	14.6	13.7	11.1	10.9	11.1
70°	460.3	168.3	11.6	9.9	11.1	12.3	11.8	11.1	10.6	12.3	14.2
72.5°	132.0	56.4	9.2	8.3	9.0	9.7	10.2	9.9	11.6	14.9	17.2
73°	101.5	45.6	8.7	7.8	8.5	9.4	9.9	9.7	11.8	15.1	17.2
75°	43.4	22.0	6.6	6.4	7.1	8.3	8.7	8.7	11.8	15.3	16.5
77.5°	19.6	11.8	4.2	5.0	6.1	6.6	7.3	7.3	9.4	11.8	11.8
80°	11.1	6.4	3.3	3.8	4.5	4.5	4.5	4.0	4.2	4.7	5.2
82.5°	7.1	4.2	2.6	3.1	2.8	2.4	1.9	1.9	1.7	1.9	2.4
85°	4.0	2.4	2.4	1.9	1.2	0.9	1.2	0.9	0.2	0.0	0.2
87.5°	2.4	1.4	0.7	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)