

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: P192819

Luminaire Tested: **GAN-AF-01-LED-U-SL2-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24286)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-SL2-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4771.3 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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: 28.75 FT

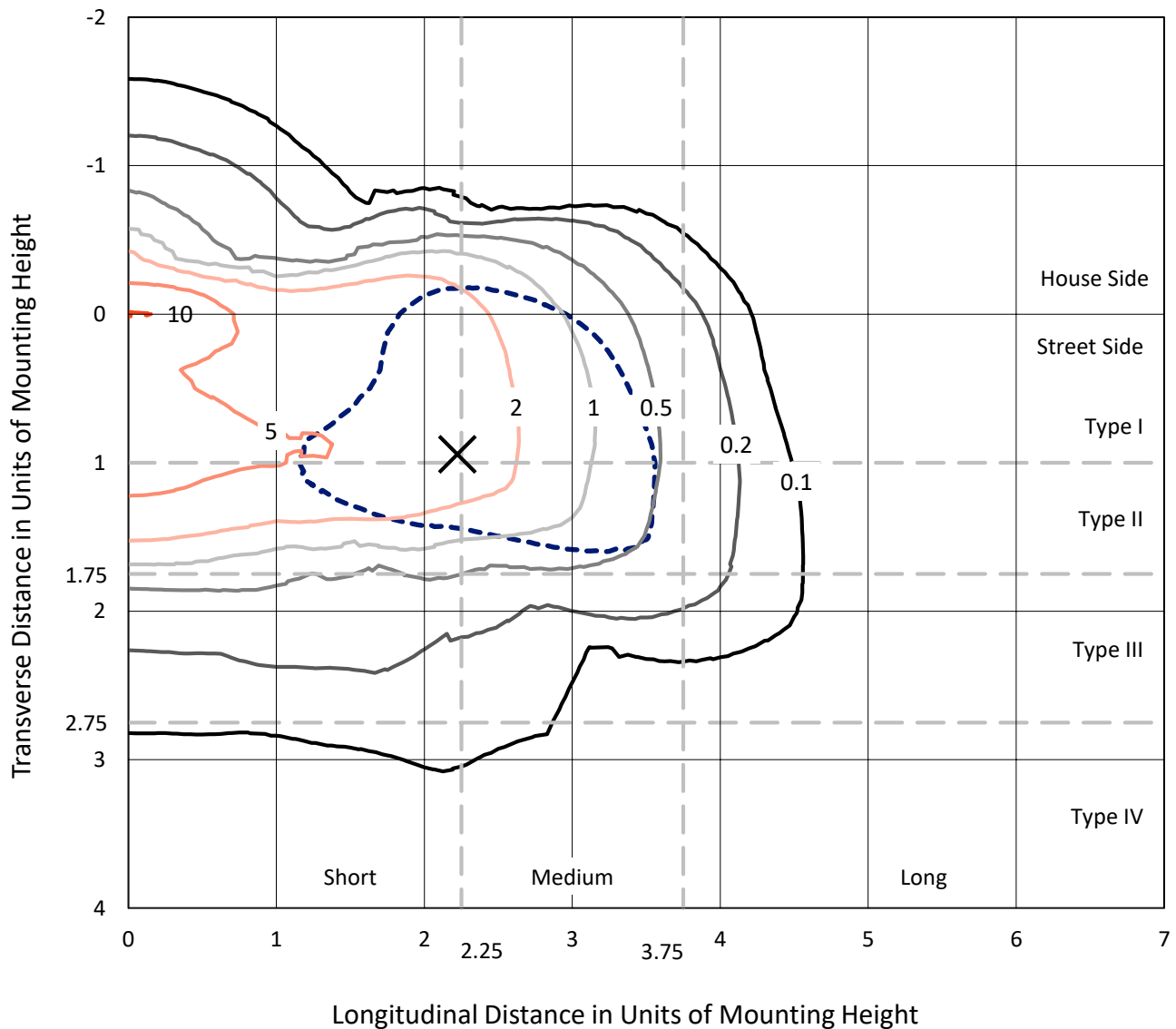


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

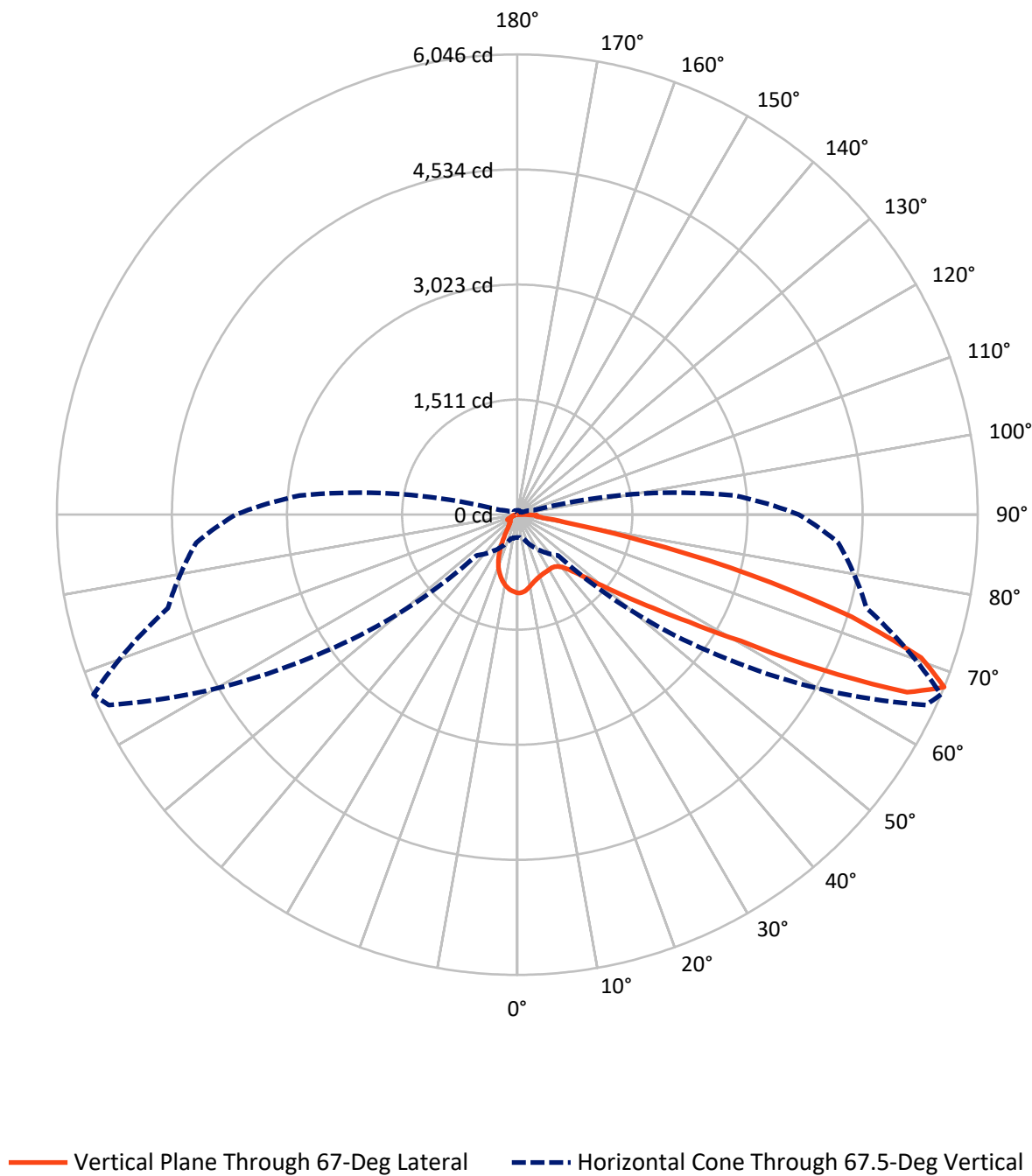


Based on 10 foot mounting height. Maximum calculated value = 10.3 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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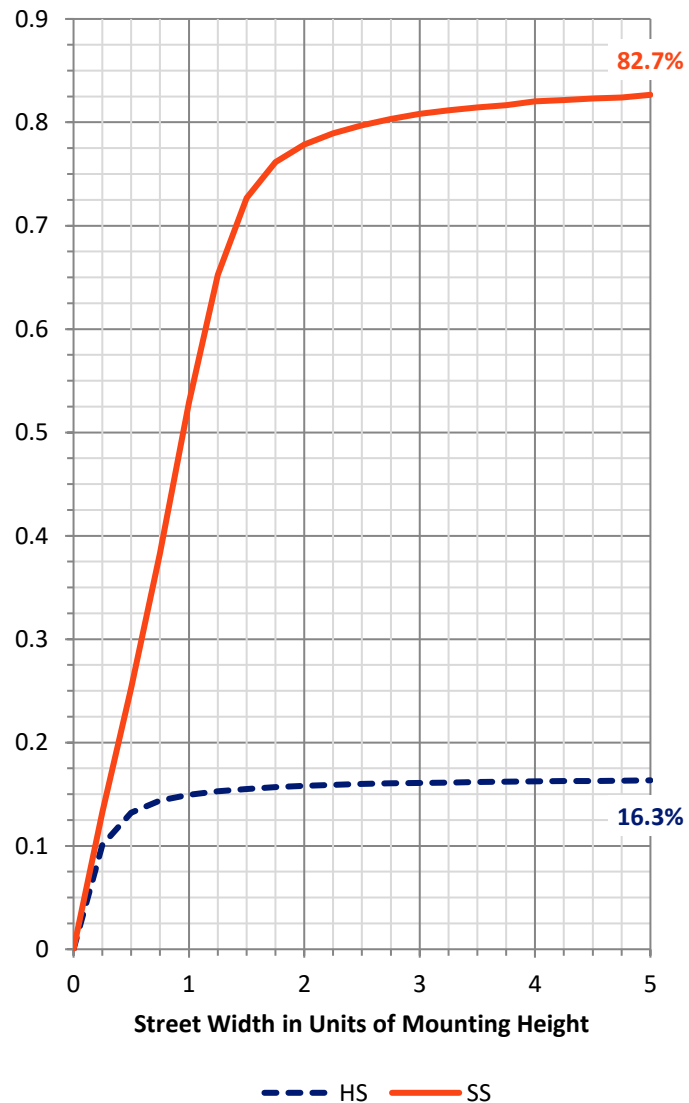
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	790.6	0.0	790.6
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	3980.8	0.0	3980.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	4771.3	0.0	4771.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	1.8
10°-20°	203.2	4.3
20°-30°	275.4	5.8
30°-40°	391.5	8.2
40°-50°	655.0	13.7
50°-60°	1036.2	21.7
60°-70°	1320.0	27.7
70°-80°	691.4	14.5
80°-90°	110.9	2.3
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°	4771.3	100.0
0°-180°	4771.3	100.0

Coefficient of Utilization



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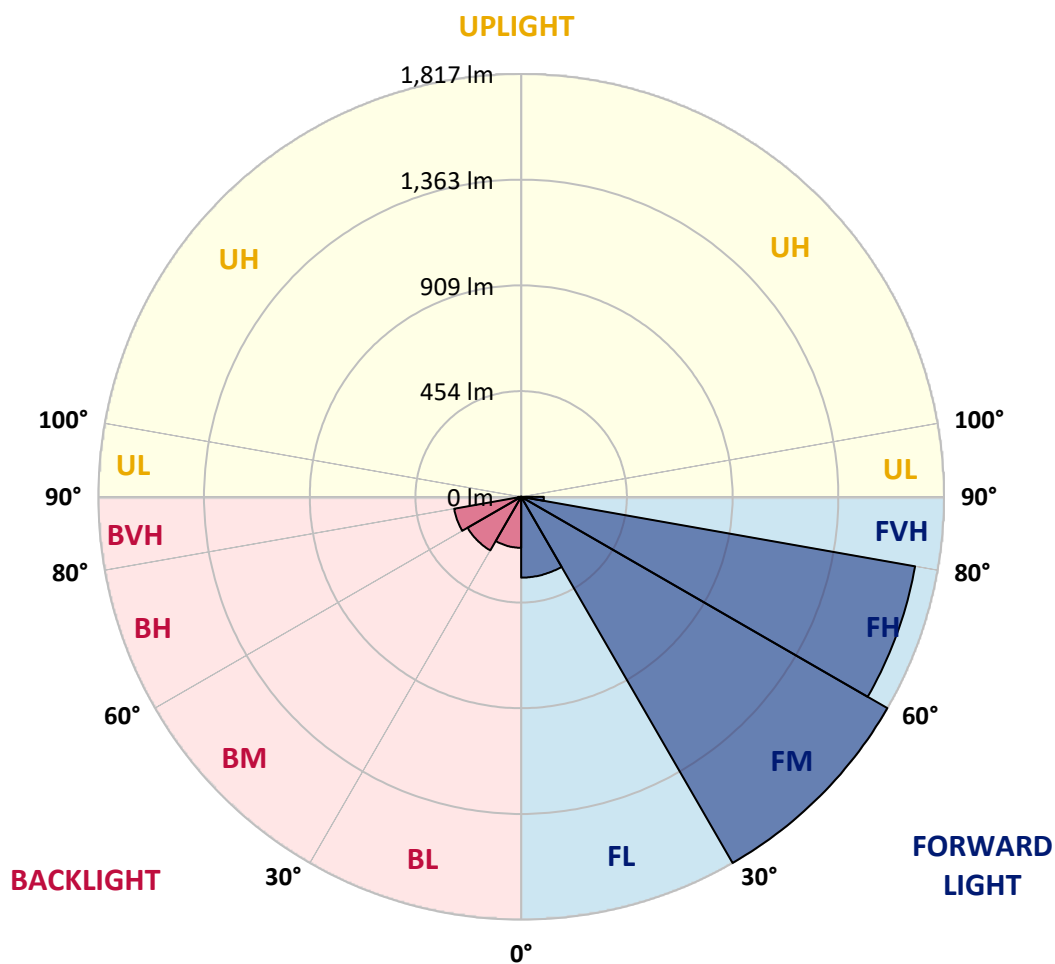
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	347.2	7.3			
FM	(30°-60°)	1817.0	38.1			
FH	(60°-80°)	1719.0	36.0			G1/1800
FVH	(80°-90°)	97.5	2.0			G1/100
BL	(0°-30°)	219.1	4.6	B1/500		
BM	(30°-60°)	265.7	5.6	B1/1000		
BH	(60°-80°)	292.4	6.1	B1/500		G1/500
BVH	(80°-90°)	13.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2
2.5°	986.8	988.5	993.6	996.9	1011.7	1018.1	1022.5	1027.0	1027.8	1029.9	1027.8
5°	883.3	886.8	896.5	907.3	936.1	958.5	982.4	1007.1	1011.5	1027.5	1032.0
7.5°	803.0	802.1	810.1	823.0	852.4	883.8	925.4	974.6	984.2	1020.3	1037.6
10°	744.5	743.7	752.2	765.7	793.7	823.3	870.4	937.7	951.3	1008.7	1043.1
12.5°	701.2	701.5	709.8	724.7	753.2	783.1	830.8	901.8	919.3	995.3	1048.7
15°	672.5	674.3	681.1	697.0	724.7	754.6	801.4	875.0	894.7	984.7	1055.0
17.5°	662.7	665.8	668.2	679.8	703.5	733.4	779.2	855.3	876.0	977.5	1060.7
20°	671.7	675.3	670.9	674.7	689.9	716.2	761.9	839.7	861.0	969.1	1061.5
22.5°	710.0	713.4	700.3	688.7	687.8	703.7	747.6	827.5	849.4	963.0	1061.7
25°	777.6	779.8	757.6	730.8	704.7	699.3	737.4	819.0	842.4	957.6	1057.2
27.5°	860.4	862.2	836.7	797.1	744.7	709.8	733.9	814.1	838.3	953.0	1049.7
30°	961.2	968.9	934.8	884.9	808.5	741.3	740.9	811.6	833.8	945.0	1034.8
32.5°	1064.1	1067.6	1044.0	993.3	894.4	796.3	760.7	813.4	832.7	935.3	1016.0
35°	1168.7	1172.9	1157.6	1116.9	1011.7	877.0	799.3	824.5	839.9	932.0	1002.8
37.5°	1304.0	1309.7	1288.5	1241.4	1154.6	986.4	863.4	852.2	862.4	941.4	998.8
40°	1517.8	1515.3	1453.3	1383.3	1310.8	1126.4	955.3	899.3	905.2	971.8	1011.0
42.5°	1766.8	1760.5	1653.8	1543.8	1482.5	1295.7	1076.8	980.9	979.7	1031.5	1054.2
45°	1965.3	1960.2	1864.2	1728.5	1679.6	1488.6	1233.6	1102.5	1093.9	1126.4	1133.7
47.5°	2072.9	2073.2	2017.9	1907.0	1905.9	1733.8	1435.2	1278.6	1263.5	1278.8	1271.0
50°	2035.3	2040.2	2034.3	1999.0	2112.4	2055.2	1698.6	1523.9	1493.7	1508.7	1478.9
52.5°	1853.1	1859.5	1894.3	1948.4	2199.3	2443.7	2085.4	1828.9	1793.6	1788.2	1755.0
55°	1530.4	1538.2	1609.2	1756.3	2127.1	2704.7	2695.8	2217.6	2161.3	2110.4	2096.2
57.5°	1054.8	1067.8	1182.0	1400.4	1893.4	2783.5	3422.5	2771.8	2657.4	2479.1	2482.4
60°	594.6	609.6	744.5	942.8	1421.9	2697.8	3975.5	3611.0	3369.7	2910.7	2935.2
62.5°	378.1	394.3	496.7	655.0	853.2	2236.6	4202.1	4777.8	4471.2	3443.1	3467.1
65°	306.2	313.1	361.4	540.8	619.5	1347.5	4030.1	5739.1	5624.6	4118.5	4006.5
67.5°	298.9	301.2	326.1	453.9	594.2	757.3	3214.5	5918.8	6045.7	4749.4	4231.3
70°	295.3	303.5	367.5	433.2	568.9	638.8	1931.7	5426.1	5626.3	4914.3	3932.2
72.5°	143.2	142.8	184.9	391.8	641.0	662.5	992.5	4390.4	4591.3	4257.7	3231.3
75°	115.5	105.7	100.9	143.5	616.2	684.2	632.5	3020.9	3166.4	2854.6	1986.4
77.5°	109.7	97.9	89.6	89.9	260.5	725.6	535.8	1672.0	1714.4	1289.4	544.2
80°	90.8	80.0	74.1	83.6	126.0	691.1	579.3	756.7	694.4	316.8	181.2
82.5°	63.1	57.4	55.7	70.2	100.9	492.4	673.7	406.6	340.9	158.5	111.8
85°	40.2	34.3	38.1	51.1	78.5	227.3	693.9	317.0	252.0	100.7	63.1
87.5°	18.6	15.1	18.8	28.2	51.3	78.3	660.3	355.9	259.5	53.2	39.8
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°	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2	1029.2
2.5°	1029.7	1025.2	1021.7	1015.0	1007.8	1000.7	994.4	986.4	984.0	981.9	985.2
5°	1032.9	1028.4	1015.6	995.3	973.0	951.9	931.0	913.2	902.2	896.0	899.5
7.5°	1037.9	1031.5	1004.7	967.5	927.3	890.6	852.7	822.4	800.0	789.4	792.4
10°	1042.4	1030.1	986.4	930.6	871.8	817.1	757.3	708.0	671.3	651.9	656.6
12.5°	1044.2	1024.8	960.7	884.5	803.7	723.8	635.8	561.9	509.1	489.9	485.8
15°	1046.1	1018.7	932.4	832.0	721.6	608.5	485.2	396.7	352.9	343.3	341.2
17.5°	1046.6	1008.0	900.6	775.0	625.4	471.4	331.7	275.6	275.8	291.2	293.2
20°	1041.7	992.2	861.6	704.1	510.1	325.9	227.8	218.1	253.6	292.5	297.1
22.5°	1030.4	971.4	817.6	621.6	378.1	214.5	176.2	186.9	232.7	280.2	285.6
25°	1016.0	945.8	765.7	525.9	250.3	153.4	147.7	160.7	191.7	223.6	226.6
27.5°	996.5	915.8	707.2	416.3	162.6	126.3	130.1	138.9	151.6	165.6	167.0
30°	971.4	879.7	644.9	303.5	122.8	113.6	119.1	123.8	129.2	137.2	137.8
32.5°	942.4	845.1	580.9	209.7	108.9	107.1	111.3	113.6	117.9	122.8	123.3
35°	918.1	812.3	514.6	148.3	103.0	102.1	104.9	105.9	110.0	115.3	115.9
37.5°	904.2	785.3	446.1	119.5	99.1	97.7	99.3	99.3	104.9	113.0	114.0
40°	905.2	770.6	377.6	107.9	95.7	93.9	94.1	94.1	101.4	110.2	110.8
42.5°	930.8	774.3	317.0	103.6	93.2	91.0	89.9	90.5	96.7	102.3	102.8
45°	991.1	801.0	260.0	100.7	90.5	89.9	87.3	87.1	89.4	92.0	92.0
47.5°	1089.9	853.5	221.4	98.8	88.5	88.3	85.2	82.2	81.8	82.8	82.8
50°	1250.6	943.8	195.6	96.7	87.1	85.2	81.6	76.9	75.3	76.1	76.1
52.5°	1491.5	1104.9	185.6	93.9	84.0	81.0	76.9	72.2	70.8	71.0	71.0
55°	1807.4	1352.4	184.2	90.5	80.8	75.7	72.4	69.0	67.3	67.7	67.7
57.5°	2193.6	1694.8	209.4	85.4	76.3	70.6	68.8	66.3	65.2	65.9	65.7
60°	2663.0	2142.8	310.7	80.0	71.8	65.9	65.9	64.0	63.1	63.8	63.5
62.5°	3203.7	2657.4	436.7	76.1	67.0	62.2	63.1	62.2	61.1	61.6	61.4
65°	3683.2	2992.7	408.9	72.9	62.4	58.6	60.2	59.8	59.1	59.5	59.3
67.5°	3697.2	2868.5	229.7	69.6	57.9	55.0	57.4	57.2	56.7	57.2	57.0
70°	3299.5	2422.1	129.4	63.5	53.2	50.8	54.1	53.9	53.4	54.3	54.1
72.5°	2643.5	1757.7	94.6	56.0	48.5	46.3	50.1	49.9	49.9	51.3	50.6
75°	1521.2	904.4	75.5	48.0	43.4	41.8	45.2	45.5	45.9	47.7	46.3
77.5°	433.6	281.9	61.6	40.8	37.3	36.7	40.0	40.4	40.8	42.8	41.0
80°	161.1	129.9	50.8	34.1	30.6	30.8	33.9	34.6	34.9	36.9	34.6
82.5°	102.8	85.7	41.2	26.3	24.0	23.8	27.6	28.5	28.5	28.7	27.4
85°	60.0	51.3	31.0	19.0	16.9	16.3	20.4	22.1	21.5	21.0	20.0
87.5°	40.2	35.3	19.0	10.6	9.2	8.7	12.0	13.2	12.7	12.0	11.3
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)