

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: P451167

Luminaire Tested: **GLAN-SA2A-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2A-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8536 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 63
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



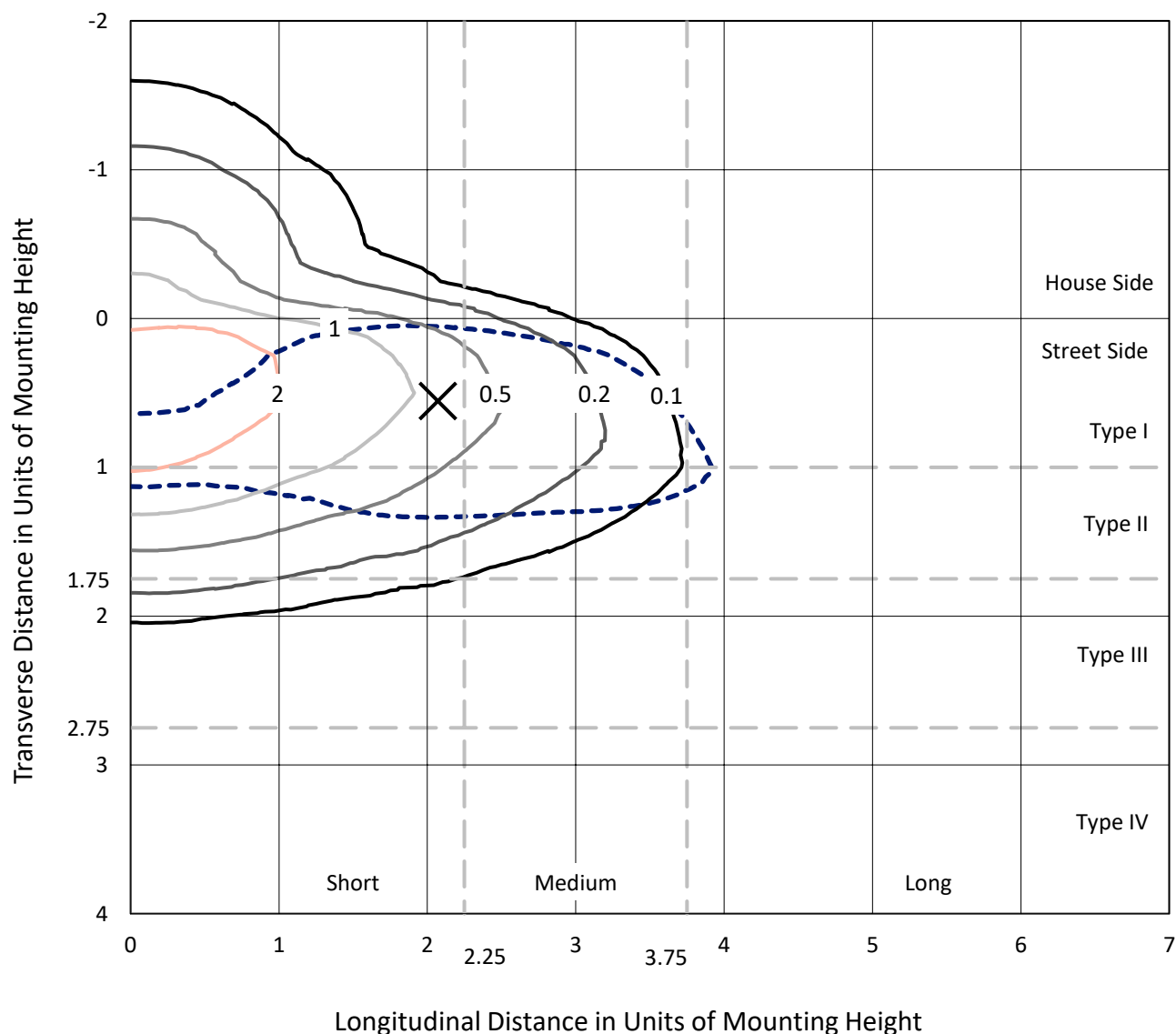
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



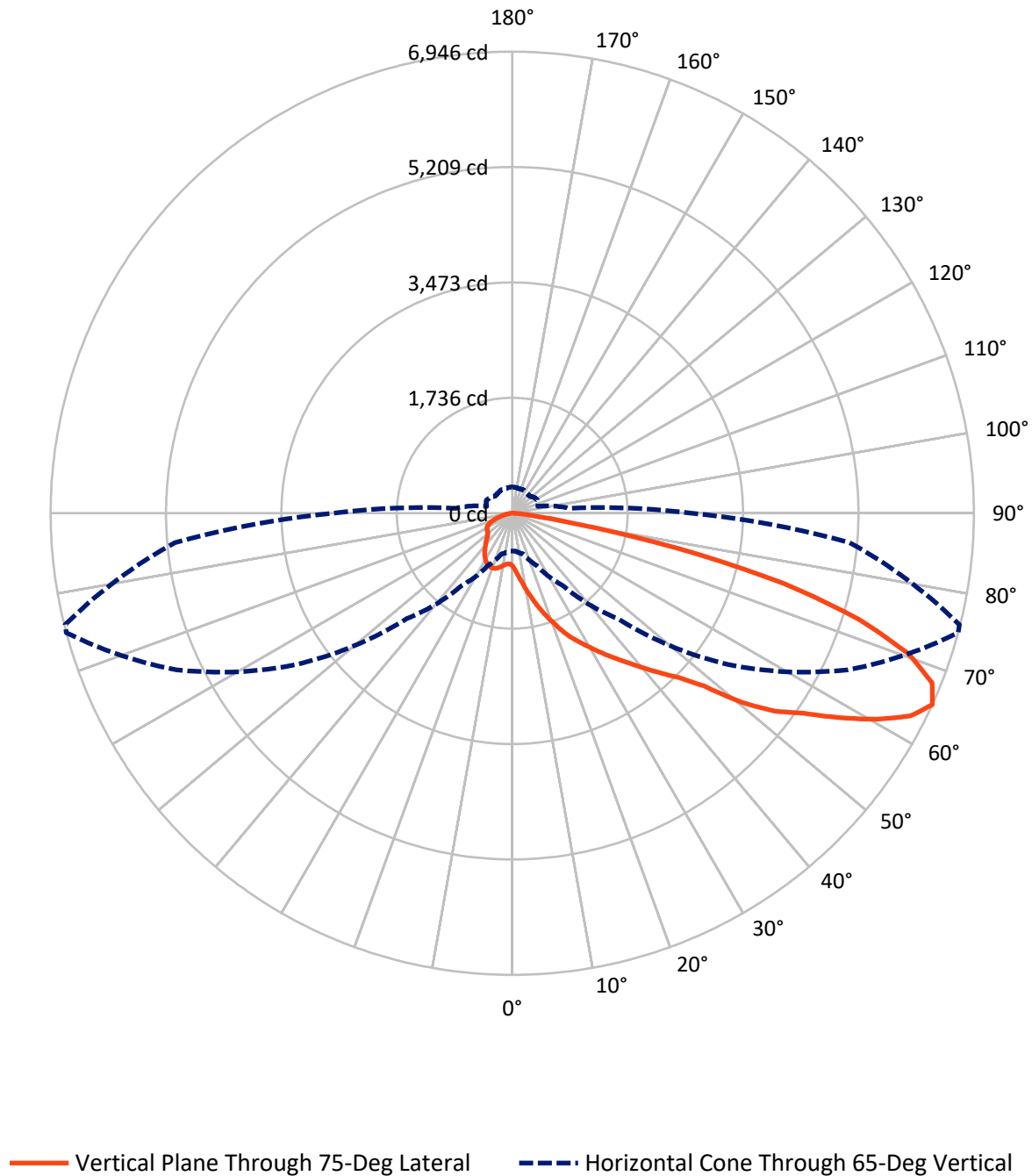
Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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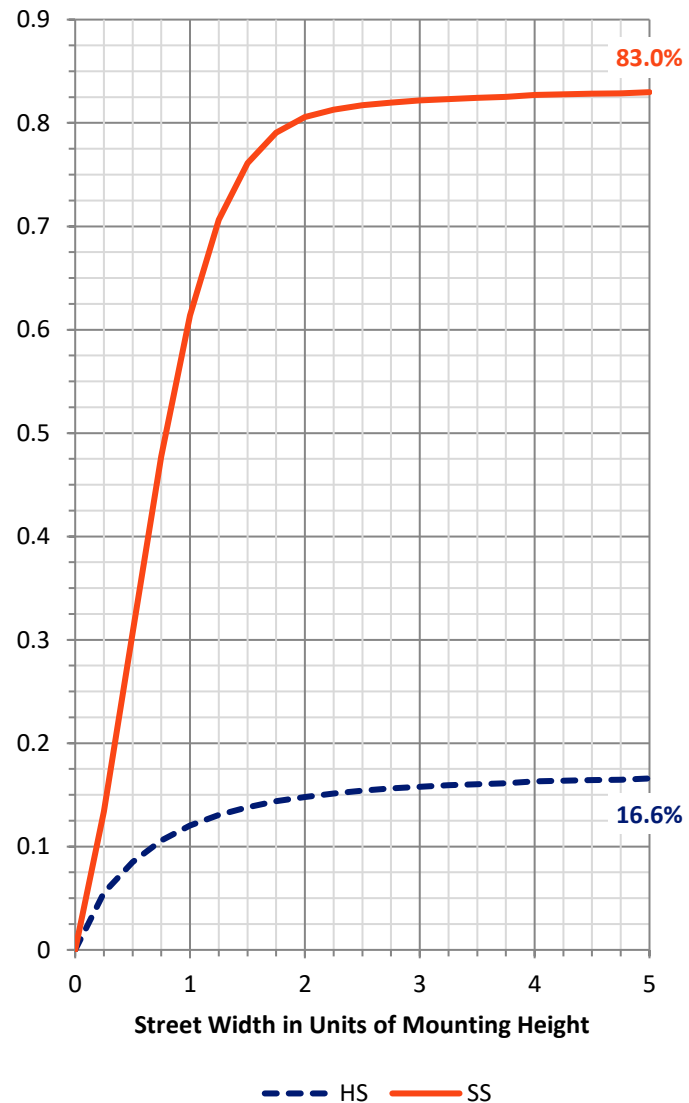
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1435.0	0.0	1435.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	7101.0	0.0	7101.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	8536.0	0.0	8536.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.4	1.1
10°-20°	377.4	4.4
20°-30°	729.1	8.5
30°-40°	1184.2	13.9
40°-50°	1629.0	19.1
50°-60°	1923.3	22.5
60°-70°	1685.1	19.7
70°-80°	804.5	9.4
80°-90°	107.0	1.3
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°	8536.0	100.0
0°-180°	8536.0	100.0

Coefficient of Utilization



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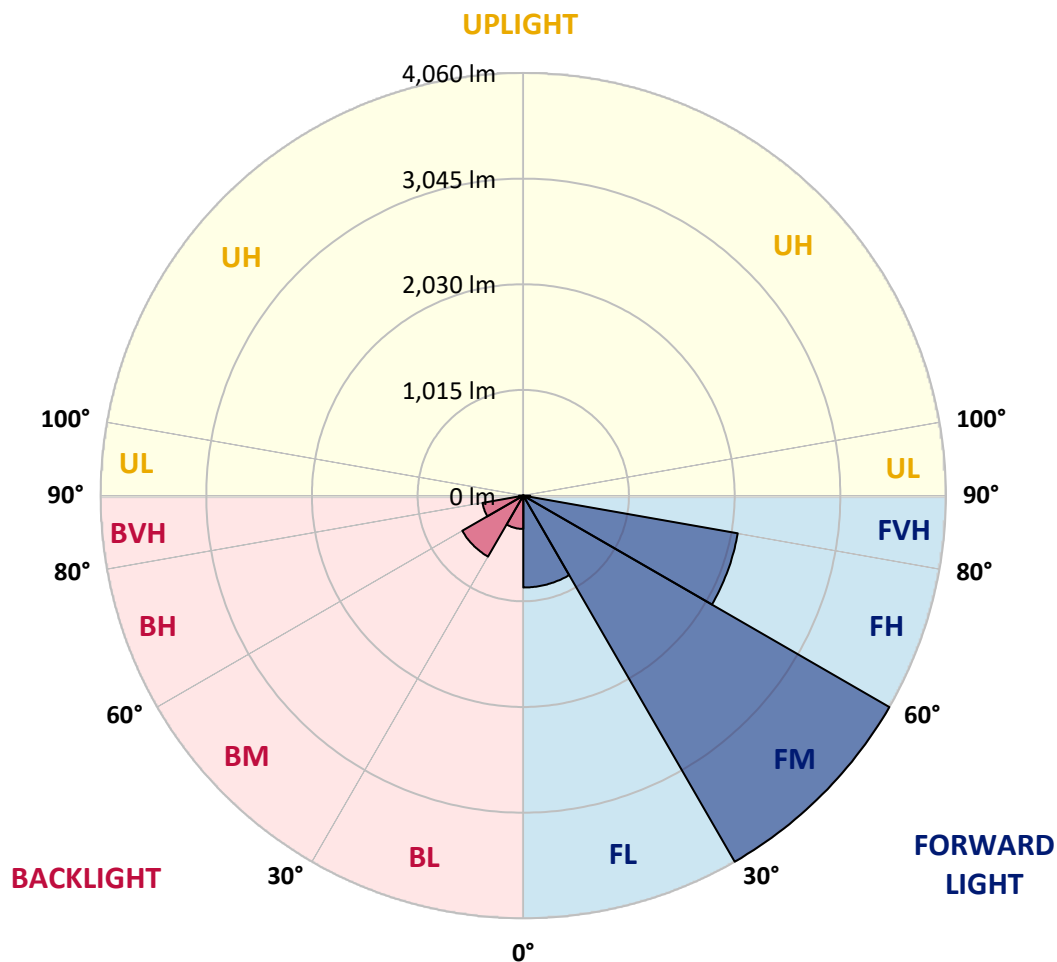
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	882.5	10.3			
FM	(30°-60°)	4059.9	47.6			
FH	(60°-80°)	2091.7	24.5			G2/5000
FVH	(80°-90°)	66.9	0.8			G1/100
BL	(0°-30°)	320.4	3.8	B1/500		
BM	(30°-60°)	676.6	7.9	B1/1000		
BH	(60°-80°)	397.9	4.7	B1/500		G1/500
BVH	(80°-90°)	40.2	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1
2.5°	1053.8	1046.8	1039.4	1019.0	997.3	972.7	937.6	903.8	858.8	857.5	824.1
5°	1345.9	1341.3	1308.4	1289.4	1239.0	1171.8	1114.9	1026.4	944.5	934.8	870.0
7.5°	1614.4	1596.4	1583.9	1549.6	1499.6	1413.5	1303.3	1183.9	1046.8	1033.9	926.4
10°	1816.8	1814.9	1808.4	1778.8	1741.3	1655.7	1533.4	1362.1	1176.5	1151.0	995.0
12.5°	1968.2	1969.6	1968.6	1968.2	1941.3	1868.6	1736.2	1555.6	1307.5	1289.4	1074.1
15°	2067.7	2081.6	2087.2	2110.3	2112.6	2064.0	1950.1	1742.7	1455.2	1428.3	1159.3
17.5°	2133.5	2140.4	2166.3	2205.7	2237.6	2228.8	2127.4	1915.9	1606.1	1561.2	1247.8
20°	2196.4	2208.5	2228.4	2282.1	2338.6	2364.5	2293.2	2093.2	1755.7	1727.0	1345.4
22.5°	2327.5	2344.6	2351.5	2378.8	2427.0	2472.8	2440.4	2263.1	1919.6	1880.7	1449.2
25°	2549.2	2567.3	2547.8	2541.4	2557.1	2579.8	2572.8	2423.3	2074.2	2018.6	1547.3
27.5°	2838.1	2840.4	2802.5	2766.4	2727.5	2715.9	2694.6	2565.4	2208.5	2162.2	1645.9
30°	3148.3	3137.2	3074.3	3009.0	2943.2	2878.4	2817.3	2702.5	2358.0	2304.8	1742.7
32.5°	3436.3	3430.3	3360.4	3259.0	3147.9	3086.8	2963.1	2840.9	2518.2	2466.8	1842.2
35°	3652.1	3660.9	3584.0	3473.4	3352.0	3297.9	3141.9	2986.3	2684.0	2627.9	1950.6
37.5°	3805.3	3800.7	3732.6	3636.8	3530.3	3483.1	3350.7	3145.1	2862.2	2808.5	2069.1
40°	3859.9	3857.2	3806.7	3736.8	3669.2	3652.5	3569.2	3316.4	3066.4	3003.4	2211.7
42.5°	3825.2	3831.2	3797.9	3778.9	3766.4	3778.5	3786.3	3540.9	3289.1	3231.2	2366.3
45°	3718.7	3715.5	3710.9	3741.9	3812.3	3891.4	4001.2	3753.0	3531.2	3484.9	2573.8
47.5°	3528.4	3551.6	3563.2	3648.8	3802.5	3990.0	4248.4	4037.3	3882.6	3842.4	2890.0
50°	3262.2	3280.7	3349.3	3501.6	3730.8	4027.1	4490.1	4502.1	4468.8	4393.3	3233.5
52.5°	2846.5	2875.2	3016.4	3295.6	3583.5	4011.8	4636.4	4900.8	4944.7	4888.3	3572.0
55°	2381.2	2421.4	2570.5	2936.7	3380.8	3928.5	4737.3	5131.8	5307.3	5254.9	3897.9
57.5°	1925.6	1968.2	2121.4	2476.1	3027.0	3744.2	4803.5	5389.2	5800.8	5732.7	4303.5
60°	1443.1	1487.6	1619.1	1984.4	2523.3	3384.0	4758.6	5612.4	6293.9	6264.7	4709.5
62.5°	931.1	980.2	1094.5	1396.8	1939.5	2891.8	4518.3	5735.5	6720.8	6685.6	5005.9
65°	567.2	572.7	635.7	867.2	1327.4	2239.0	3968.8	5572.1	6945.8	6935.1	5096.1
67.5°	366.7	375.5	404.2	519.5	795.9	1555.2	3173.3	5032.7	6814.3	6810.6	4909.5
70°	309.7	312.5	325.5	350.5	462.5	943.1	2228.4	4172.9	6314.7	6314.7	4460.9
72.5°	276.9	280.6	285.2	293.1	330.1	534.3	1329.7	3248.3	5452.2	5488.3	3797.0
75°	251.4	250.5	253.3	254.6	281.5	349.1	687.5	2402.5	4217.8	4145.6	2749.7
77.5°	215.3	216.7	215.3	221.3	248.6	265.8	349.1	1612.1	2556.2	2462.6	1380.2
80°	176.9	179.2	181.5	185.2	212.5	201.9	209.7	734.8	945.4	925.5	426.4
82.5°	132.9	136.1	139.8	148.6	167.1	133.3	132.4	313.9	341.2	312.5	157.0
85°	53.7	63.4	95.8	104.6	105.1	73.2	81.5	131.0	139.4	136.1	61.6
87.5°	12.5	14.8	31.0	46.8	43.1	27.3	30.1	42.6	48.6	44.9	20.8
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°	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1	793.1
2.5°	808.8	792.6	764.9	743.6	728.3	714.9	706.5	701.4	699.6	699.1	699.6
5°	836.2	807.5	763.5	735.7	720.4	711.6	706.5	706.1	706.5	707.0	705.6
7.5°	873.7	832.5	775.0	749.1	737.5	731.1	728.7	727.8	728.3	727.8	727.8
10°	923.7	867.2	797.7	770.9	761.2	753.7	750.0	747.7	745.9	744.0	743.1
12.5°	978.8	905.6	822.3	796.3	782.5	770.9	762.5	756.5	752.4	748.2	747.3
15°	1040.3	946.4	849.6	813.5	793.6	776.4	762.1	752.4	745.0	738.9	738.5
17.5°	1099.1	984.8	868.1	821.3	792.2	768.1	749.1	735.7	726.4	718.6	717.6
20°	1162.1	1021.4	876.4	816.3	778.3	749.1	724.1	707.9	697.3	688.5	687.1
22.5°	1225.5	1052.4	875.5	800.0	754.2	719.9	693.6	676.4	663.9	655.1	651.9
25°	1286.2	1077.4	863.9	774.1	720.9	685.2	658.4	642.6	631.5	620.9	620.9
27.5°	1340.8	1092.2	842.2	742.6	686.6	649.1	627.8	613.5	603.3	596.3	592.2
30°	1394.5	1099.1	812.5	702.8	650.5	618.6	601.4	593.1	583.8	576.0	575.0
32.5°	1442.7	1097.7	775.5	663.9	616.2	593.6	586.6	580.1	570.4	559.3	556.5
35°	1489.4	1088.5	731.5	621.3	587.5	578.7	580.6	571.3	553.7	539.8	537.5
37.5°	1540.4	1071.8	683.4	586.6	563.5	571.8	576.4	556.1	527.3	505.6	500.5
40°	1599.2	1052.8	633.4	551.9	544.5	565.3	565.3	527.8	488.5	475.0	471.3
42.5°	1668.2	1037.1	591.7	522.7	528.7	549.6	547.3	490.3	474.1	467.2	465.3
45°	1777.4	1031.5	548.6	497.3	515.8	531.0	512.1	477.3	468.1	462.5	460.7
47.5°	1950.1	1038.0	510.7	478.3	501.0	512.5	472.7	468.5	462.1	454.2	453.3
50°	2110.3	1032.0	483.8	467.6	488.0	490.3	456.5	457.9	454.2	445.4	443.5
52.5°	2241.3	1013.0	466.7	462.1	476.9	451.4	441.2	446.3	444.9	433.8	432.0
55°	2385.3	1001.4	458.4	462.1	469.5	417.6	426.9	434.3	432.4	424.6	424.1
57.5°	2559.9	1003.8	452.3	463.5	462.1	400.5	412.5	421.3	420.9	418.5	418.5
60°	2738.6	1004.7	443.1	463.0	453.3	387.1	397.7	410.2	411.1	412.5	412.5
62.5°	2797.8	964.4	425.0	454.7	433.8	374.1	383.8	400.9	400.0	403.7	404.2
65°	2687.2	852.8	398.2	435.7	408.8	364.8	373.2	388.9	383.8	393.5	395.4
67.5°	2446.0	705.6	356.5	401.4	381.0	355.1	366.2	372.2	363.0	382.0	382.4
70°	2114.0	551.0	303.7	352.8	349.6	344.9	360.7	351.4	338.4	361.6	357.0
72.5°	1767.7	420.9	242.6	288.4	307.4	329.6	350.9	324.6	306.5	313.4	305.1
75°	1327.9	311.1	194.9	225.9	256.0	307.9	342.1	292.1	264.4	257.9	256.0
77.5°	676.9	203.3	145.8	169.0	192.1	278.3	330.1	254.2	219.0	208.8	204.2
80°	241.7	126.4	102.8	116.7	129.6	239.4	288.4	210.2	169.9	168.1	169.9
82.5°	112.0	81.5	69.0	76.4	76.9	159.7	219.9	157.0	129.2	196.3	165.8
85°	48.2	40.7	38.9	38.0	35.2	71.3	123.6	84.3	131.5	58.8	54.2
87.5°	14.4	16.2	14.4	10.6	7.9	7.9	12.5	4.6	3.2	2.3	2.3
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)