

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: P318016

Luminaire Tested: **GAN-SA2D-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13029 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

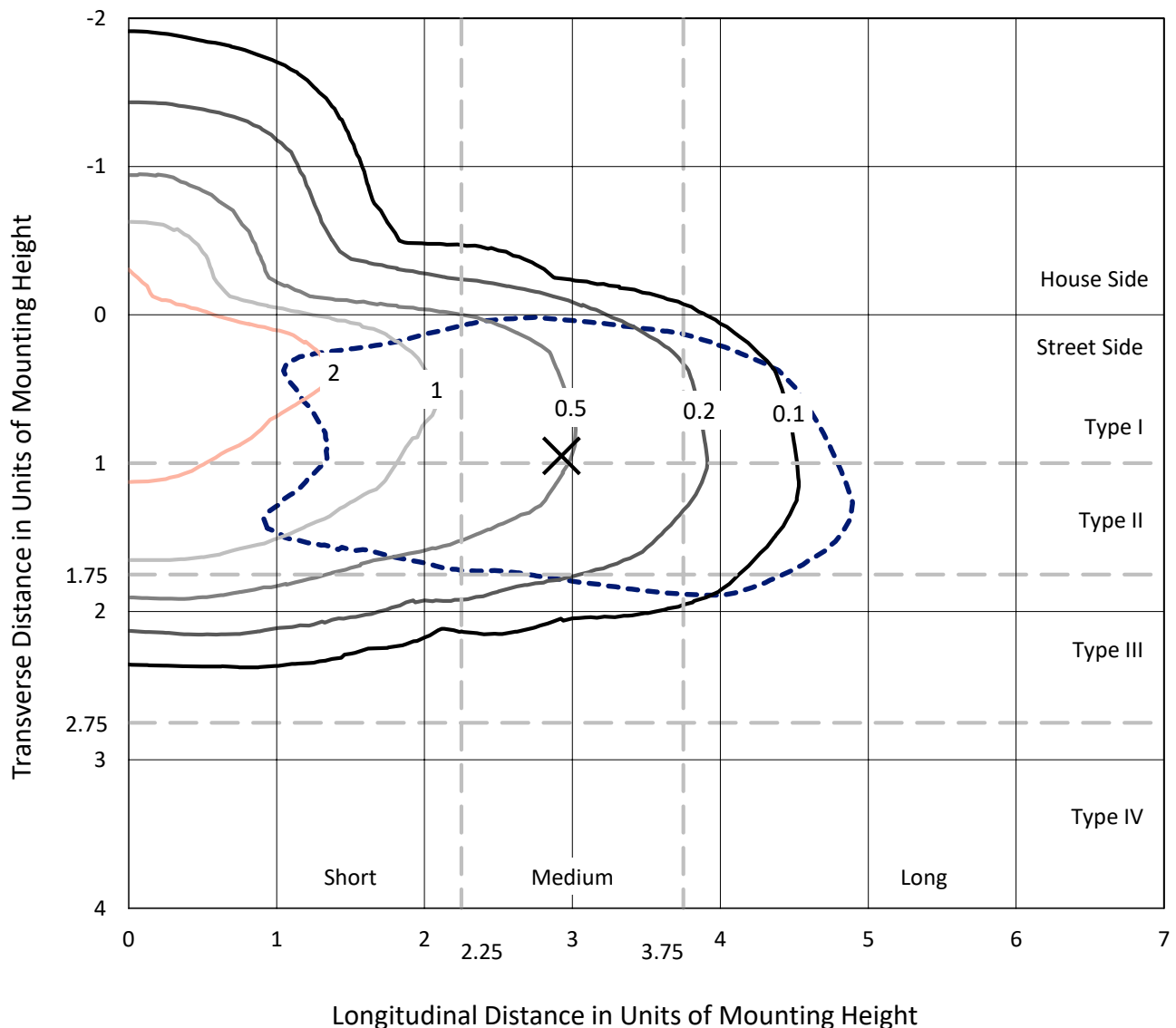
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

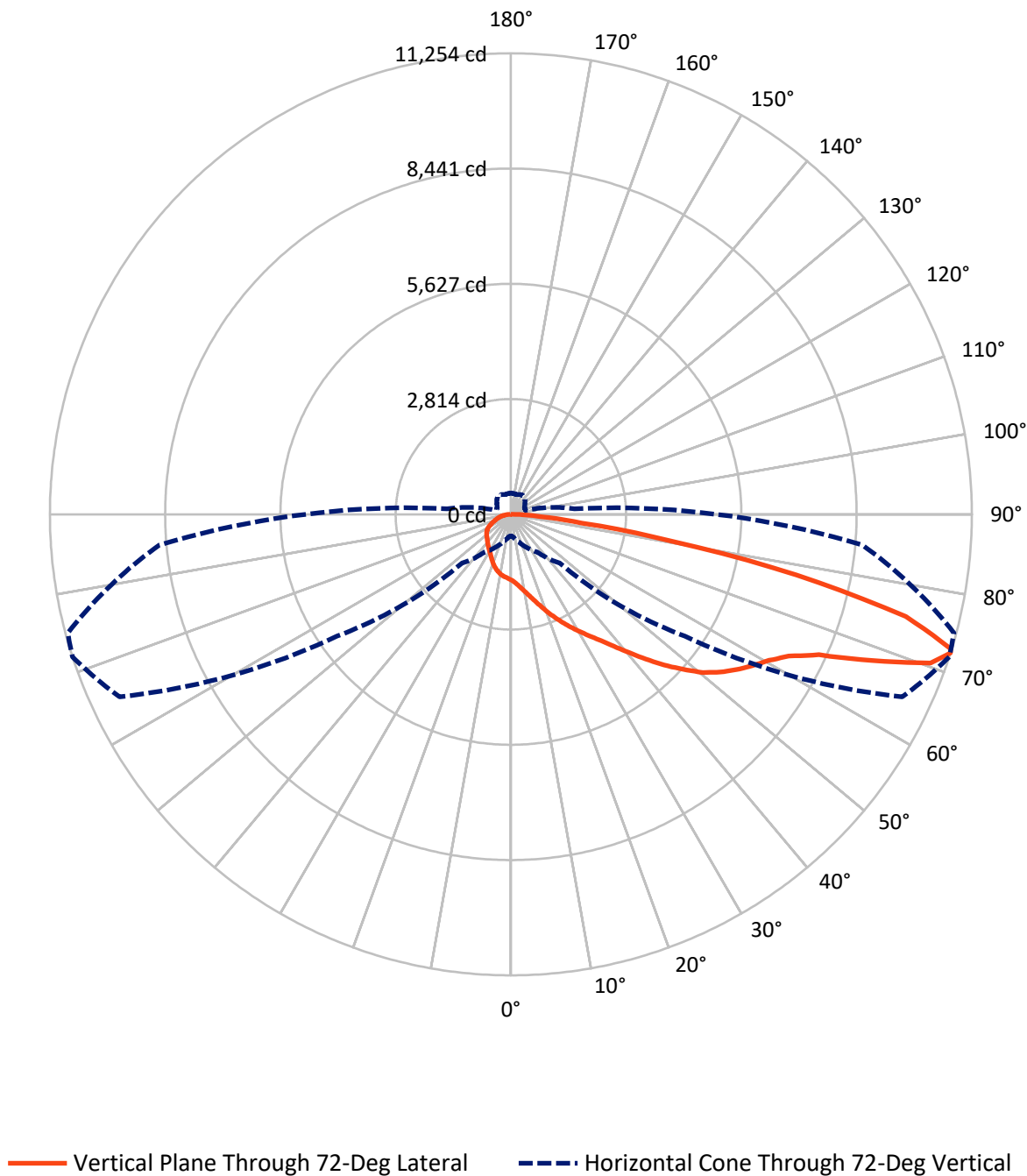
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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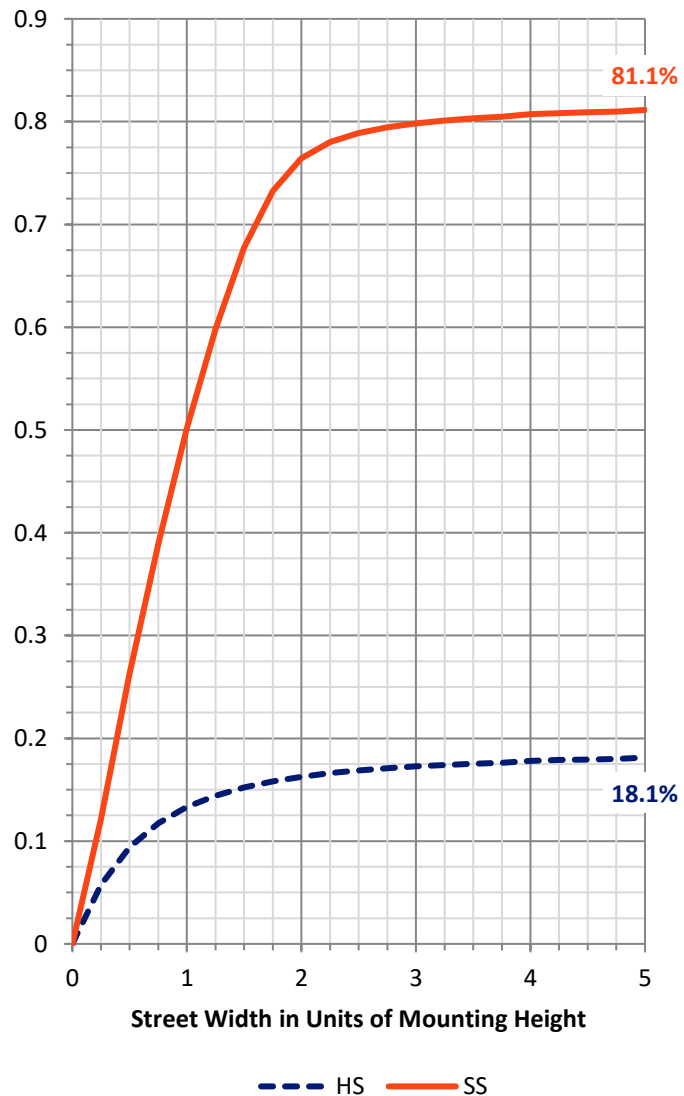
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2417.0	0.0	2417.0
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	10612.0	0.0	10612.0
	% Fixture	81.4	0.0	81.4
Total	Lumens	13029.0	0.0	13029.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.6	1.2
10°-20°	519.0	4.0
20°-30°	909.5	7.0
30°-40°	1348.5	10.4
40°-50°	1972.3	15.1
50°-60°	2713.9	20.8
60°-70°	3021.4	23.2
70°-80°	2047.3	15.7
80°-90°	336.5	2.6
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°	13029.0	100.0
0°-180°	13029.0	100.0

Coefficient of Utilization



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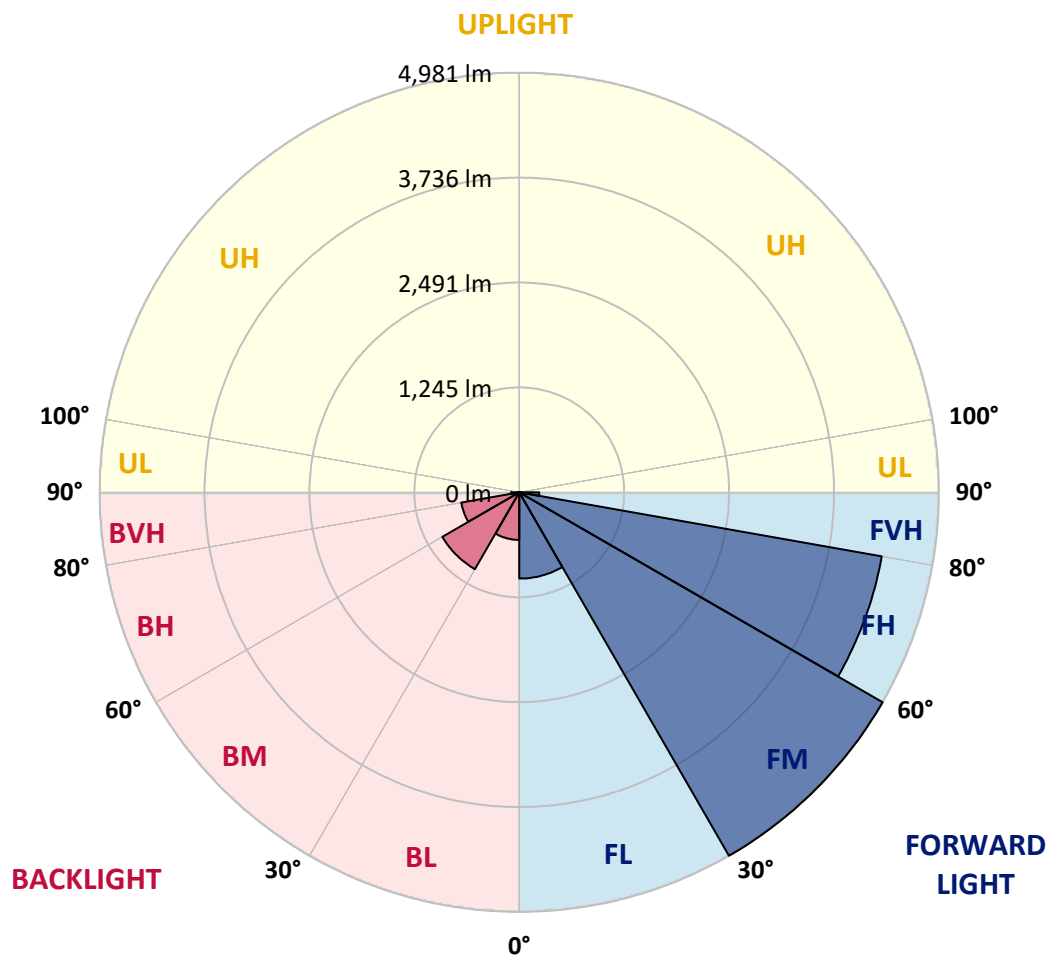
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1024.2	7.9			
FM	(30°-60°)	4981.2	38.2			
FH	(60°-80°)	4369.4	33.5			G2/5000
FVH	(80°-90°)	237.4	1.8			G3/500
BL	(0°-30°)	565.0	4.3	B2/1000		
BM	(30°-60°)	1053.6	8.1	B2/2500		
BH	(60°-80°)	699.3	5.4	B2/1000		G2/1000
BVH	(80°-90°)	99.1	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9
2.5°	1770.7	1768.0	1758.6	1758.6	1740.6	1725.4	1696.7	1677.4	1654.5	1646.4	1619.5
5°	1942.1	1943.0	1931.3	1923.2	1896.8	1864.5	1815.6	1771.1	1726.7	1708.8	1653.6
7.5°	2086.1	2084.3	2081.1	2074.4	2049.7	2016.5	1950.6	1884.6	1819.1	1792.2	1697.1
10°	2178.5	2182.5	2185.2	2188.4	2178.0	2154.3	2091.9	2011.6	1925.9	1889.1	1749.2
12.5°	2225.1	2232.3	2244.9	2266.4	2283.5	2280.8	2235.5	2150.2	2048.4	2002.2	1814.2
15°	2252.5	2261.9	2281.7	2320.2	2368.2	2395.6	2383.5	2306.3	2192.8	2135.9	1893.6
17.5°	2269.6	2277.2	2307.7	2359.3	2430.6	2503.3	2535.1	2470.5	2356.1	2291.1	1984.7
20°	2281.2	2287.0	2325.2	2385.7	2478.2	2593.9	2682.7	2666.6	2536.0	2451.7	2079.8
22.5°	2307.2	2312.2	2348.5	2409.5	2511.8	2661.2	2824.9	2849.2	2725.8	2630.2	2181.6
25°	2379.9	2379.9	2410.4	2453.0	2549.0	2719.5	2945.2	3052.4	2919.6	2808.3	2275.8
27.5°	2518.5	2517.2	2528.4	2543.2	2615.9	2778.7	3052.4	3231.8	3120.6	2999.0	2367.3
30°	2682.7	2691.7	2693.0	2685.9	2720.0	2852.8	3151.5	3421.1	3322.9	3191.9	2461.1
32.5°	2894.0	2899.9	2893.1	2869.4	2864.4	2957.7	3248.9	3619.4	3541.8	3393.3	2546.8
35°	3162.3	3151.1	3130.0	3081.5	3035.3	3098.1	3360.1	3817.7	3787.7	3636.9	2664.8
37.5°	3449.9	3450.3	3424.3	3314.4	3250.7	3277.6	3513.6	4042.5	4085.1	3926.7	2816.0
40°	3680.5	3692.6	3708.7	3564.3	3481.7	3518.9	3708.7	4303.1	4436.8	4270.4	3012.9
42.5°	3841.5	3855.4	3901.2	3810.5	3724.9	3794.0	3938.4	4581.3	4831.6	4667.0	3243.5
45°	4012.0	4019.6	4051.9	4012.9	3958.1	4113.8	4197.3	4869.3	5249.3	5089.6	3501.5
47.5°	4191.4	4199.5	4232.7	4206.7	4178.0	4412.6	4467.3	5140.7	5649.4	5553.9	3776.9
50°	4413.0	4418.4	4449.8	4402.7	4411.7	4637.8	4708.7	5389.7	6068.9	5971.1	4053.3
52.5°	4715.4	4716.8	4760.3	4717.7	4675.5	4802.9	4916.4	5624.3	6397.7	6351.5	4329.6
55°	4952.3	4966.6	5109.3	5100.3	5076.1	4952.7	5090.0	5847.7	6691.1	6713.1	4623.0
57.5°	4801.1	4857.2	5146.1	5349.8	5548.0	5325.5	5324.6	6099.4	6963.9	7068.0	4945.5
60°	4204.9	4281.1	4706.9	5158.6	5779.1	5974.2	5811.8	6406.7	7239.3	7419.7	5349.8
62.5°	3003.0	3128.7	3705.6	4426.9	5462.4	6404.0	6803.3	6894.3	7613.9	7827.0	5875.1
65°	1518.1	1613.2	2096.8	2965.8	4364.1	6123.2	7880.8	7962.0	8264.9	8454.2	6683.9
67.5°	922.4	958.2	1194.2	1649.6	2675.5	4769.7	8232.6	9741.7	9524.6	9625.1	7837.3
70°	679.7	706.1	853.3	1095.5	1538.8	2798.9	7153.2	11011.7	10869.1	10857.9	8689.7
72°	529.4	548.7	678.8	885.1	1125.1	1679.2	5184.7	10542.9	11254.0	11197.5	8611.6
72.5°	502.0	519.0	637.5	833.1	1063.2	1522.2	4661.6	10226.7	11226.2	11200.6	8510.7
75°	395.2	407.3	471.9	644.2	832.2	863.6	2554.4	7925.3	9958.8	10372.9	7654.7
77.5°	327.0	328.8	362.9	468.8	648.7	610.6	1254.8	5498.7	7131.2	7586.6	5422.4
80°	266.5	268.7	284.9	328.8	490.8	451.8	595.8	3161.8	3992.7	3997.6	2578.6
82.5°	212.2	212.6	230.6	240.5	352.6	323.0	341.4	1484.5	1744.7	1678.3	926.8
85°	149.4	146.2	225.2	197.4	230.6	207.3	188.4	587.7	721.4	690.0	290.3
87.5°	49.8	51.6	100.0	127.9	134.6	117.5	83.9	225.2	272.3	270.1	92.0
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°	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9	1602.9
2.5°	1611.0	1596.6	1575.5	1552.2	1533.8	1515.0	1501.1	1493.9	1485.8	1479.1	1487.2
5°	1628.0	1601.1	1556.3	1512.3	1480.0	1451.3	1430.6	1419.9	1410.0	1403.3	1404.2
7.5°	1655.8	1612.3	1537.0	1472.8	1427.9	1397.0	1375.9	1368.7	1362.4	1360.7	1362.9
10°	1685.5	1621.3	1511.4	1426.2	1375.0	1349.4	1340.0	1345.0	1349.4	1353.5	1358.0
12.5°	1719.1	1629.4	1474.2	1371.4	1327.9	1318.0	1327.5	1349.0	1364.7	1374.1	1379.9
15°	1763.1	1636.6	1431.1	1316.7	1287.5	1298.7	1330.6	1367.8	1395.2	1412.7	1415.4
17.5°	1803.4	1636.1	1375.9	1261.5	1254.8	1287.5	1335.5	1388.0	1424.8	1449.5	1454.4
20°	1845.2	1624.0	1311.8	1207.7	1221.6	1275.4	1337.8	1401.0	1445.4	1474.2	1480.9
22.5°	1884.2	1602.9	1241.3	1158.8	1193.8	1259.3	1329.3	1393.4	1437.8	1461.1	1468.3
25°	1910.7	1566.1	1170.0	1117.5	1169.1	1239.5	1301.4	1353.0	1386.2	1397.9	1399.7
27.5°	1924.1	1518.1	1102.7	1081.6	1143.5	1207.2	1249.8	1275.4	1284.8	1283.9	1282.1
30°	1925.9	1454.9	1044.8	1052.5	1113.9	1159.7	1179.9	1174.9	1162.8	1142.2	1144.0
32.5°	1920.1	1383.5	996.4	1024.6	1076.2	1101.8	1102.7	1078.9	1046.6	1013.9	1004.9
35°	1921.9	1313.5	953.8	993.2	1030.5	1041.7	1031.4	996.4	952.4	910.2	901.3
37.5°	1941.6	1252.5	917.0	956.9	979.8	982.5	967.7	930.9	898.6	857.3	853.7
40°	1988.7	1209.0	882.0	916.1	929.1	930.4	909.3	883.3	886.0	864.0	863.6
42.5°	2073.5	1190.2	851.0	873.5	881.5	884.2	868.1	851.5	874.8	860.4	855.5
45°	2183.0	1194.7	825.0	831.7	846.5	859.1	849.2	829.0	838.0	775.7	755.0
47.5°	2309.5	1223.4	804.4	795.8	821.4	845.2	829.9	799.4	767.6	705.7	694.0
50°	2457.5	1267.8	785.5	760.4	794.1	826.4	811.1	767.6	719.6	689.5	685.5
52.5°	2611.8	1322.1	766.7	721.4	759.5	812.0	804.4	760.4	701.2	671.6	666.2
55°	2786.8	1376.8	742.9	676.1	722.3	805.3	801.2	734.4	687.3	670.7	666.6
57.5°	3004.4	1439.2	711.5	629.0	687.3	781.0	768.5	718.7	672.9	660.4	659.0
60°	3287.9	1531.1	666.2	578.7	644.7	743.8	741.1	695.8	650.0	641.1	639.3
62.5°	3713.2	1683.2	603.8	528.5	597.1	680.6	705.2	664.8	625.8	625.4	626.3
65°	4372.7	1912.0	536.1	484.5	549.1	627.2	663.5	633.0	601.1	610.1	611.5
67.5°	5137.1	2101.8	469.7	441.4	500.2	576.5	625.8	601.1	568.4	591.7	592.2
70°	5391.5	1932.2	411.4	398.8	449.5	527.6	585.0	566.2	533.0	556.3	554.0
72°	5017.3	1559.8	373.7	366.5	411.4	487.2	548.7	533.4	500.7	516.4	510.5
72.5°	4899.3	1487.2	364.3	358.4	401.1	476.9	539.2	525.3	492.6	506.0	500.7
75°	4370.4	1291.6	313.1	314.5	349.9	426.6	486.3	481.8	448.2	449.5	447.7
77.5°	3169.9	947.0	263.8	272.8	297.9	375.0	432.9	430.2	393.4	386.7	385.4
80°	1471.0	483.2	214.9	218.9	244.9	313.6	369.2	365.6	336.0	327.5	322.6
82.5°	503.8	229.7	161.5	164.2	189.8	252.6	320.3	318.1	293.4	276.8	266.5
85°	179.9	114.4	113.1	110.4	135.5	198.7	279.0	266.9	230.6	196.5	195.6
87.5°	58.3	48.9	58.3	57.9	79.0	134.6	202.8	172.7	167.3	139.1	136.4
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)