

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: P192789

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192789
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4992.1 lumens
Efficiency: N/A
Efficacy: 84.6 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): 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: 28.75 FT



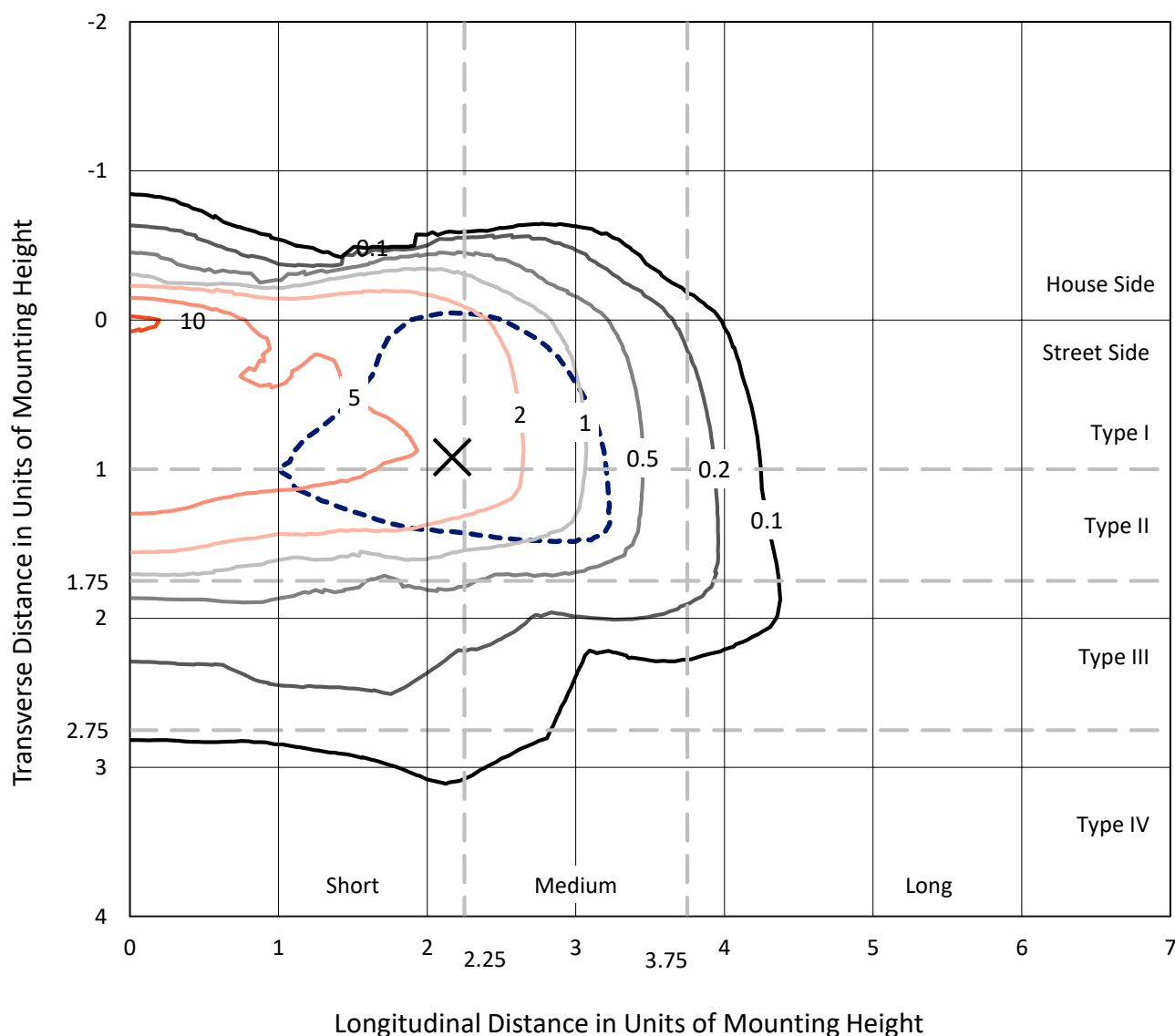
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

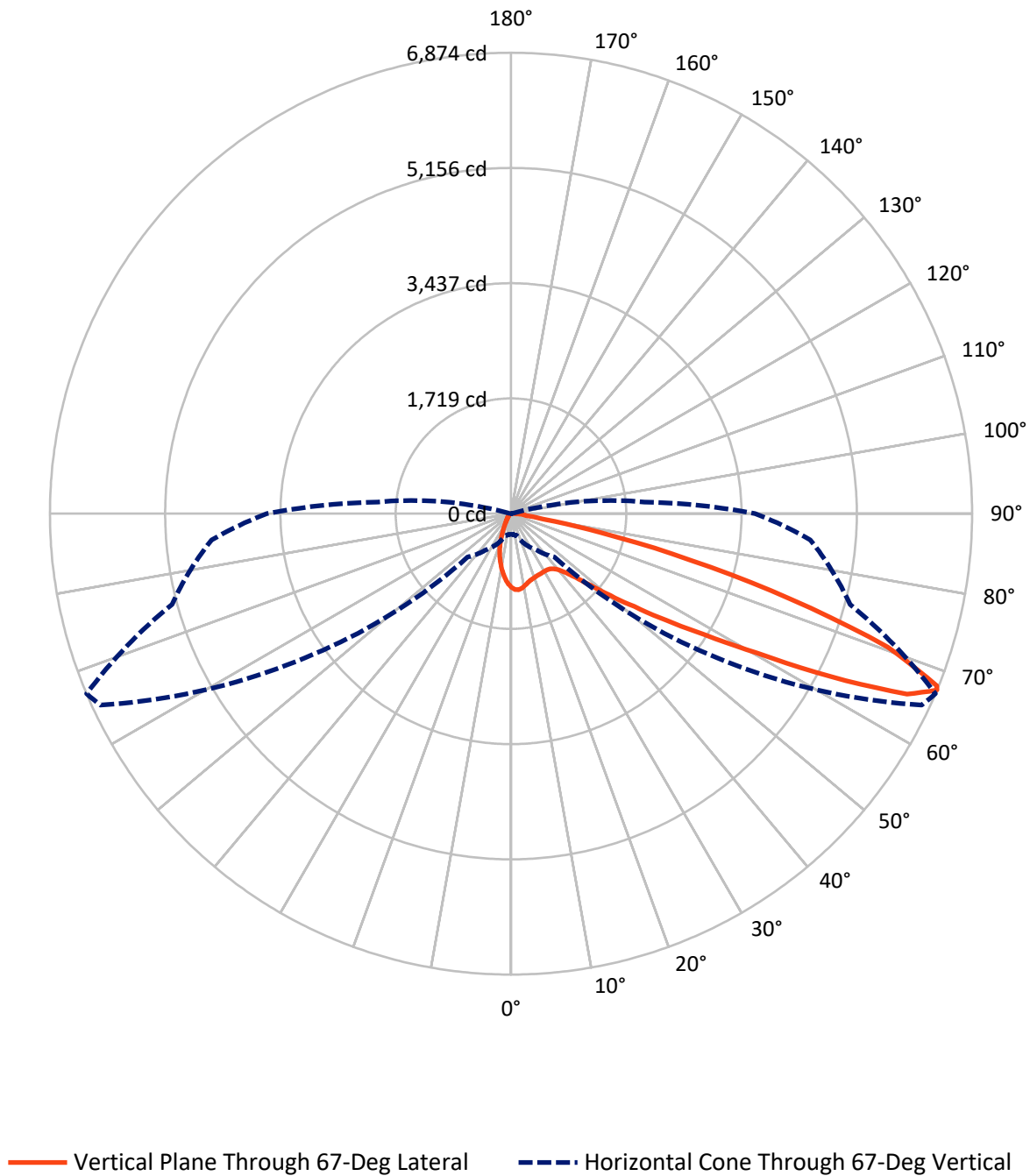


Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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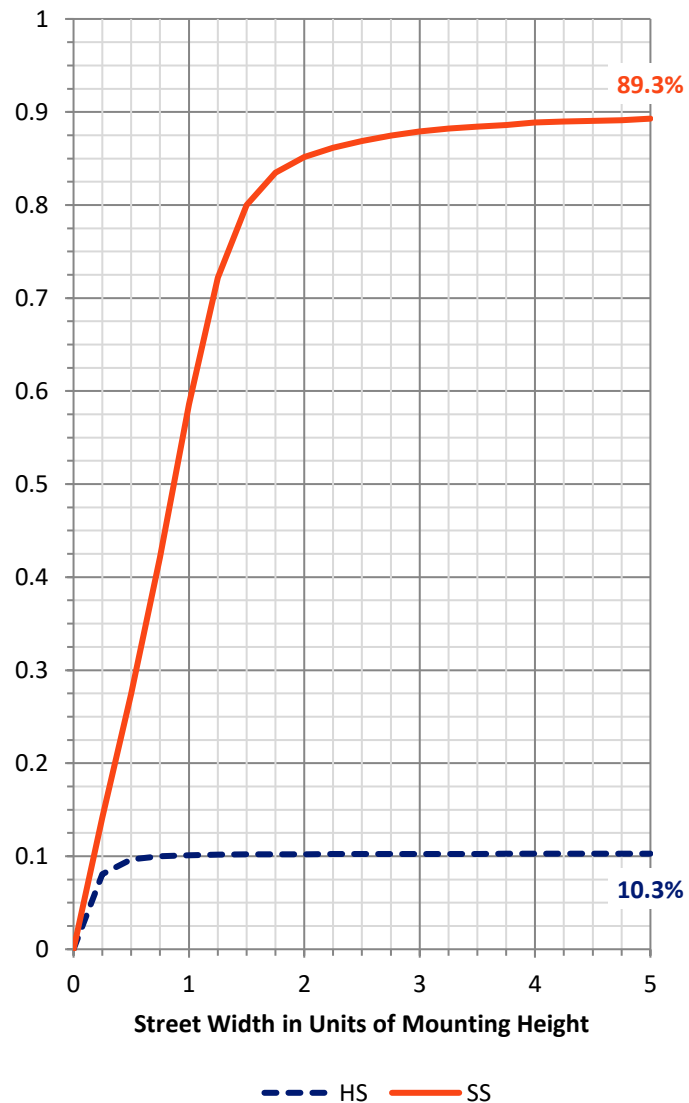
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	518.3	0.0	518.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	4473.7	0.0	4473.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	4992.1	0.0	4992.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.6	1.8
10°-20°	190.7	3.8
20°-30°	277.2	5.6
30°-40°	432.5	8.7
40°-50°	766.1	15.3
50°-60°	1212.2	24.3
60°-70°	1388.5	27.8
70°-80°	575.9	11.5
80°-90°	59.5	1.2
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°	4992.1	100.0
0°-180°	4992.1	100.0

Coefficient of Utilization



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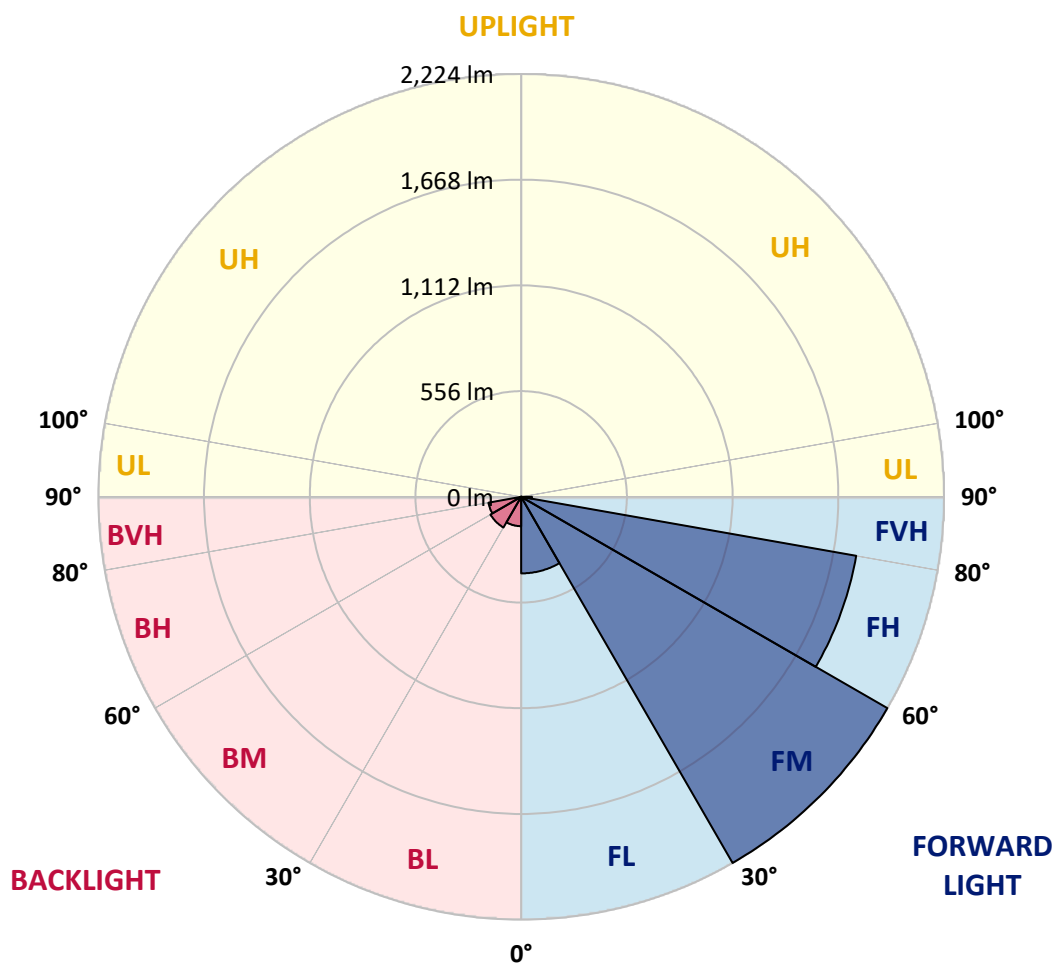
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	402.8	8.1			
FM	(30°-60°)	2224.5	44.6			
FH	(60°-80°)	1789.7	35.9			G1/1800
FVH	(80°-90°)	56.8	1.1			G1/100
BL	(0°-30°)	154.7	3.1	B1/500		
BM	(30°-60°)	186.3	3.7	B0/220		
BH	(60°-80°)	174.7	3.5	B1/500		G1/500
BVH	(80°-90°)	2.7	0.1			G0/10
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°	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1138.2	1140.5	1140.2	1142.0	1146.0	1146.3	1142.3	1134.4	1132.7	1122.5	1104.7
5°	1049.7	1056.4	1060.5	1077.1	1095.7	1118.2	1134.9	1141.1	1140.2	1132.9	1106.1
7.5°	948.7	955.4	960.0	979.5	1004.3	1042.7	1086.7	1122.7	1126.0	1133.8	1105.0
10°	881.4	882.6	889.0	907.6	933.5	972.9	1025.2	1088.4	1098.0	1126.9	1102.1
12.5°	826.1	827.0	835.4	855.5	883.2	922.7	977.8	1050.8	1065.8	1118.2	1101.6
15°	786.7	790.0	797.5	818.5	847.9	887.1	943.7	1023.2	1040.9	1114.9	1106.8
17.5°	773.7	777.2	779.4	794.7	821.4	859.9	917.8	1005.1	1025.2	1116.6	1116.9
20°	787.3	790.0	784.7	788.6	805.1	839.4	895.9	989.7	1013.6	1118.7	1130.1
22.5°	838.3	839.4	825.2	808.6	805.7	824.6	878.8	977.5	1003.1	1124.3	1145.5
25°	925.7	923.6	900.3	864.5	830.7	821.9	868.6	969.9	997.9	1130.1	1161.5
27.5°	1031.1	1033.9	1001.9	949.8	885.4	839.4	867.1	966.7	995.6	1134.1	1175.5
30°	1159.1	1163.3	1126.6	1061.0	968.7	882.6	880.5	966.1	994.0	1131.5	1176.6
32.5°	1290.0	1294.8	1266.0	1198.5	1079.9	954.8	910.7	972.5	997.0	1122.5	1169.9
35°	1426.7	1433.7	1414.6	1356.6	1230.8	1059.0	964.1	992.1	1010.6	1121.6	1163.3
37.5°	1615.7	1622.2	1586.0	1524.6	1413.4	1198.8	1049.7	1028.6	1043.0	1135.5	1165.0
40°	1897.9	1897.0	1803.9	1709.8	1614.0	1376.3	1169.9	1095.1	1102.4	1177.9	1186.5
42.5°	2205.4	2203.9	2066.2	1923.2	1836.7	1595.0	1328.0	1209.8	1204.9	1255.5	1242.5
45°	2442.4	2442.1	2329.7	2168.7	2104.9	1846.1	1532.5	1369.3	1361.8	1381.9	1345.5
47.5°	2543.4	2545.2	2488.7	2375.4	2402.2	2185.5	1790.1	1600.5	1589.2	1581.1	1525.8
50°	2464.8	2468.2	2473.0	2450.8	2620.2	2641.8	2135.8	1926.5	1920.9	1884.5	1798.0
52.5°	2208.0	2225.7	2280.5	2350.6	2696.0	3079.8	2677.6	2331.1	2301.4	2262.8	2167.4
55°	1775.3	1794.8	1898.7	2069.1	2583.3	3367.5	3437.1	2853.0	2803.5	2687.9	2550.4
57.5°	1174.9	1205.1	1356.0	1572.7	2255.9	3413.7	4194.7	3577.0	3404.7	3088.2	2933.3
60°	647.3	676.5	840.1	1036.4	1629.4	3184.9	4704.2	4519.9	4215.3	3535.7	3398.3
62.5°	398.6	414.3	535.2	717.8	977.3	2513.7	4809.6	5704.8	5352.1	4112.0	3960.0
65°	317.4	324.1	383.2	586.7	700.6	1495.2	4469.2	6607.9	6490.3	4809.6	4462.8
67°	308.1	310.8	338.6	503.6	660.4	916.5	3744.2	6755.0	6874.4	5231.9	4478.5
67.5°	310.1	313.0	339.5	480.7	659.3	842.4	3494.4	6697.0	6847.9	5265.3	4408.9
70°	299.1	308.1	388.8	480.4	626.9	700.1	2092.7	5802.5	5959.4	4892.3	3741.0
72.5°	106.0	106.5	168.0	388.8	681.7	707.6	1050.8	4253.8	4370.0	3742.4	2697.2
75°	63.0	53.5	55.9	110.7	651.4	687.1	606.3	2718.2	2761.5	2144.5	1365.8
77.5°	43.3	37.8	39.0	48.9	248.1	677.5	481.7	1417.4	1371.1	752.1	290.8
80°	24.8	21.9	23.3	42.8	90.2	632.2	454.2	574.8	490.0	127.5	80.5
82.5°	13.1	11.0	13.4	35.2	63.0	394.0	455.1	277.7	220.1	43.0	54.7
85°	4.7	3.9	6.4	24.1	41.9	120.8	422.0	233.5	183.4	21.0	41.6
87.5°	0.9	0.9	2.6	10.0	16.9	36.9	249.5	138.6	92.9	12.6	28.5
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°	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9	1100.9
2.5°	1097.4	1085.0	1068.0	1047.4	1022.8	1001.4	985.3	968.7	965.2	959.4	958.5
5°	1090.2	1068.7	1026.7	978.6	927.4	881.0	843.5	810.0	795.2	782.4	780.9
7.5°	1079.4	1047.0	975.6	898.2	818.3	745.3	683.6	640.0	599.9	580.6	577.7
10°	1066.9	1020.6	918.4	810.9	700.3	597.5	505.8	429.0	382.3	354.6	351.2
12.5°	1055.2	994.7	859.9	720.3	573.3	435.8	318.0	244.6	195.7	175.9	173.5
15°	1049.7	973.7	805.1	627.8	440.6	277.5	173.8	134.5	118.5	113.8	113.5
17.5°	1049.1	955.9	751.4	532.0	308.6	161.2	113.3	103.4	100.2	99.0	99.0
20°	1048.8	939.1	697.9	432.6	196.0	107.4	94.3	92.0	89.7	88.2	88.2
22.5°	1052.0	923.9	642.0	331.4	123.5	87.1	83.0	80.7	77.8	75.7	75.4
25°	1055.2	912.2	585.0	235.9	89.4	75.7	71.7	68.4	64.4	61.7	61.4
27.5°	1055.8	897.7	523.8	157.8	74.9	66.1	60.8	55.9	51.3	48.6	48.3
30°	1047.0	873.2	455.9	106.5	66.1	57.4	50.4	45.2	40.8	38.7	38.7
32.5°	1029.9	842.9	381.5	80.5	58.8	49.1	41.6	36.7	33.8	32.9	32.6
35°	1014.5	810.3	304.9	68.2	52.7	41.6	34.1	30.8	29.1	28.9	28.5
37.5°	1005.4	784.2	232.9	61.7	46.9	35.0	28.9	26.6	25.6	25.0	25.3
40°	1012.4	762.3	172.1	56.5	41.1	29.1	24.5	23.3	22.4	22.2	22.2
42.5°	1043.0	758.5	127.9	51.8	35.5	24.1	21.3	20.4	19.7	19.5	19.7
45°	1123.4	781.9	99.3	47.4	29.9	20.4	18.0	17.8	17.5	17.5	17.5
47.5°	1244.3	829.9	82.7	42.5	25.0	17.5	15.8	15.4	15.2	15.4	15.4
50°	1448.9	917.8	74.0	37.5	20.6	14.9	13.4	13.4	13.4	13.4	13.6
52.5°	1760.1	1090.7	68.2	32.6	16.9	12.6	11.4	11.4	11.7	11.7	11.9
55°	2106.9	1320.2	63.0	27.7	14.3	10.5	9.3	9.7	10.0	10.2	10.2
57.5°	2483.1	1574.4	58.6	22.7	12.2	8.4	7.8	8.2	8.4	9.1	9.1
60°	2937.1	1849.5	52.1	17.8	10.2	6.7	6.1	6.7	7.5	8.2	8.4
62.5°	3435.5	2115.7	43.9	13.9	8.4	5.3	4.9	6.1	7.3	7.8	8.2
65°	3776.2	2199.3	33.8	11.4	6.4	3.9	4.1	5.6	7.0	7.8	7.8
67°	3638.3	1994.0	27.7	9.7	5.3	2.9	3.9	5.6	7.0	7.5	7.8
67.5°	3542.4	1913.5	26.6	9.3	4.9	2.9	3.9	5.6	7.0	7.8	7.8
70°	2882.4	1437.6	22.2	7.0	4.1	2.6	3.2	5.3	6.7	7.5	7.5
72.5°	2002.7	886.3	19.7	4.9	3.5	2.3	2.9	4.9	6.4	7.3	7.5
75°	952.2	320.9	16.9	3.9	3.2	2.0	2.6	4.9	6.4	7.3	7.3
77.5°	194.3	74.6	13.6	3.2	2.6	2.0	2.3	4.7	6.1	7.0	7.0
80°	63.8	28.9	10.2	2.9	2.6	2.0	2.3	4.4	6.1	6.7	7.0
82.5°	46.0	14.5	6.7	2.9	2.6	2.0	2.0	4.4	5.8	6.7	6.7
85°	35.2	10.2	4.4	2.9	2.6	2.0	2.0	4.1	5.6	6.4	6.4
87.5°	23.3	4.1	3.5	2.9	2.6	2.0	2.0	4.1	5.3	6.1	6.4
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)