

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: P323036

Luminaire Tested: **GAN-SA2B-830-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323036
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-830-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6735 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

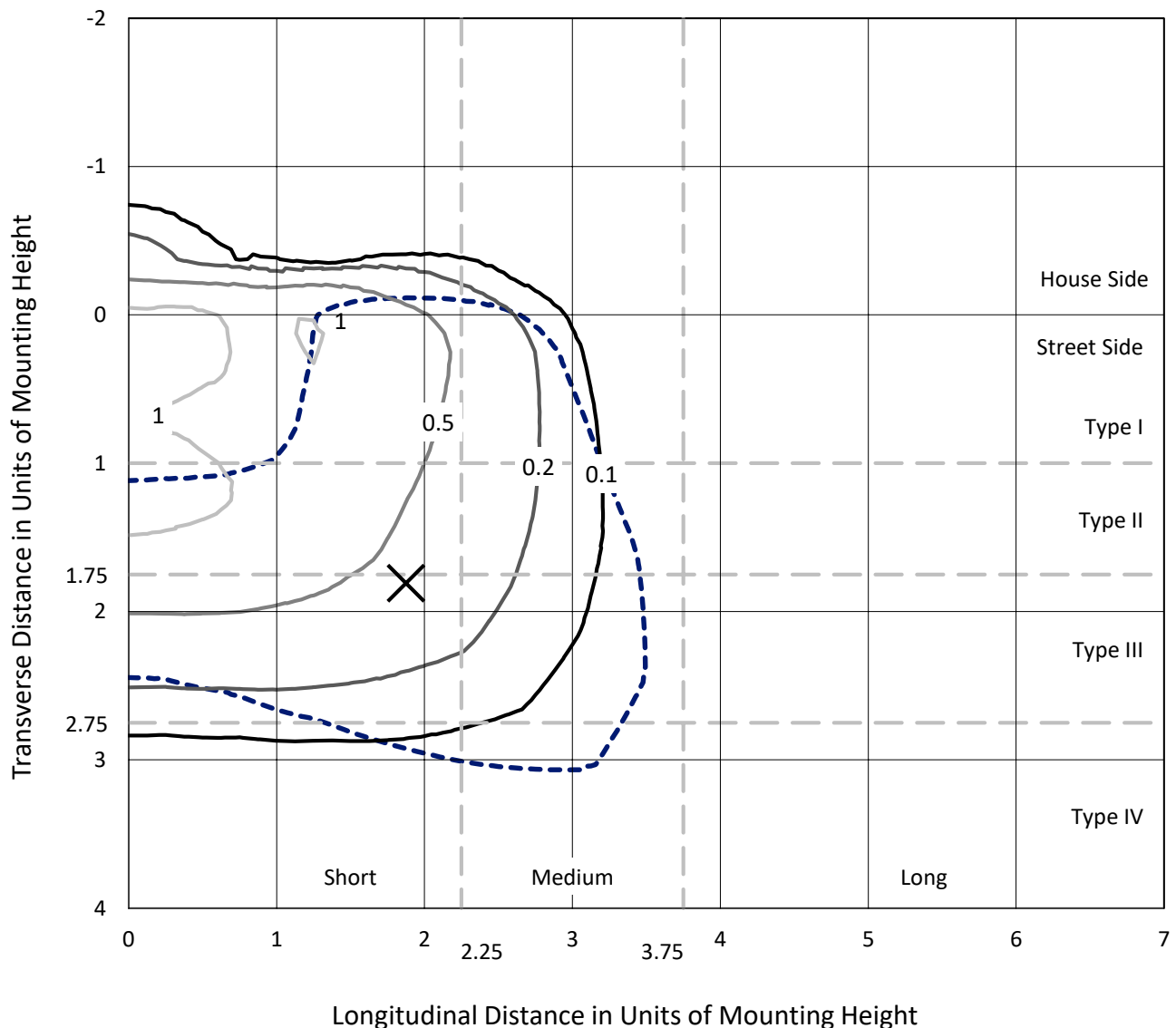
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

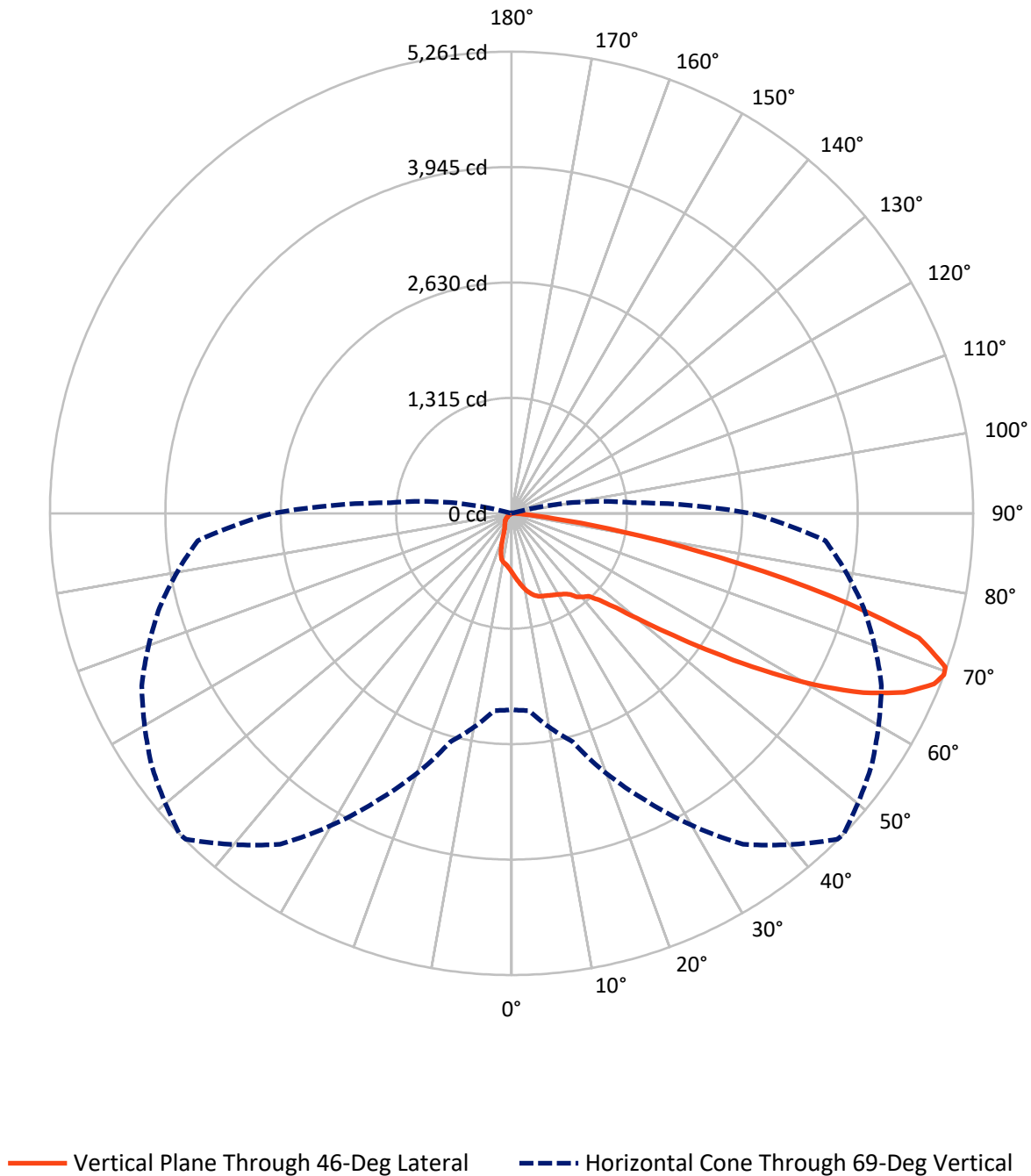
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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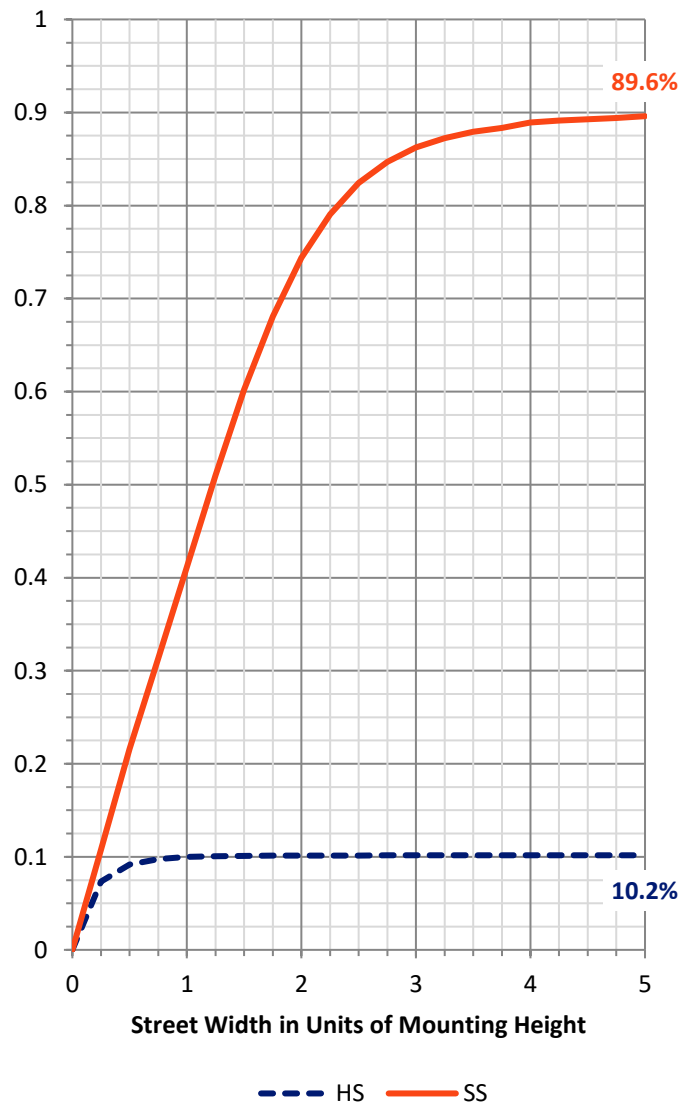
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	691.2	0.0	691.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	6043.8	0.0	6043.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	6735.0	0.0	6735.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.2	1.0
10°-20°	203.8	3.0
20°-30°	320.5	4.8
30°-40°	459.5	6.8
40°-50°	794.3	11.8
50°-60°	1569.2	23.3
60°-70°	2193.0	32.6
70°-80°	1059.5	15.7
80°-90°	68.1	1.0
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°	6735.0	100.0
0°-180°	6735.0	100.0

Coefficient of Utilization



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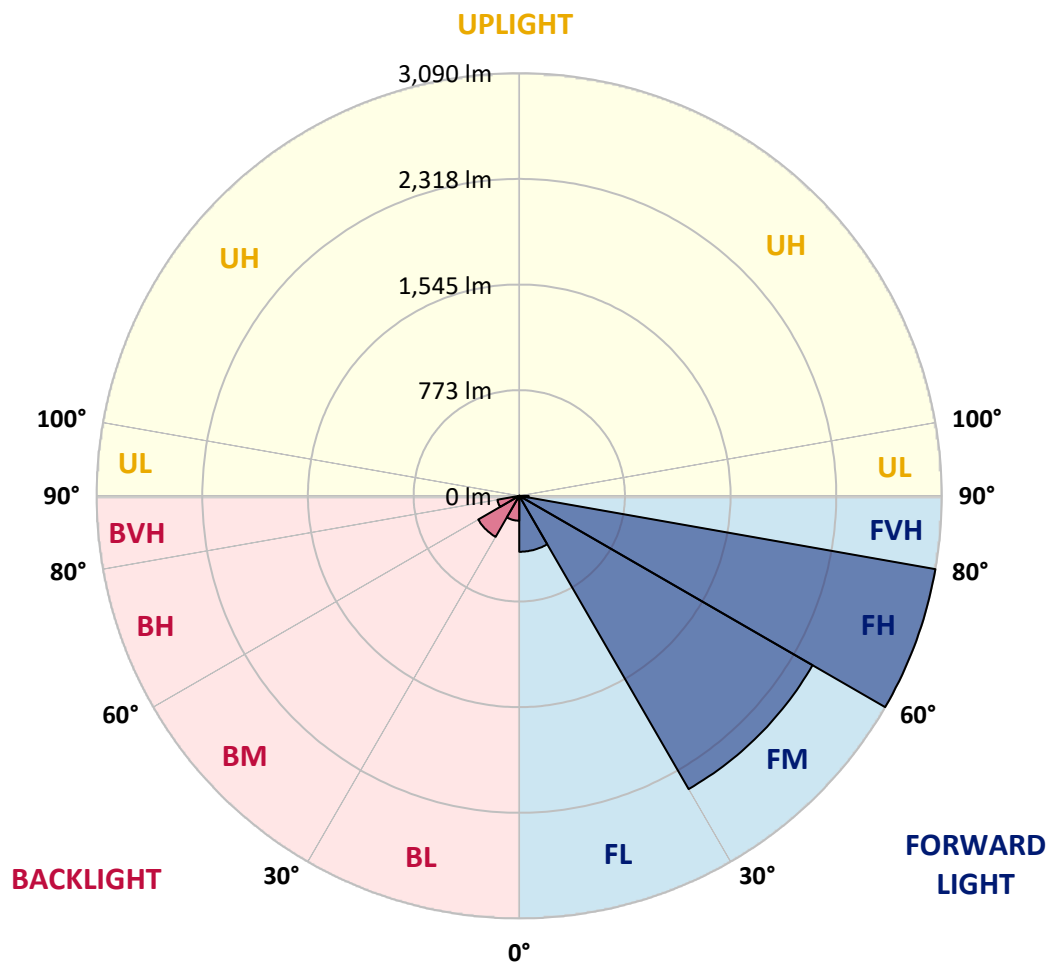
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.2	6.1			
FM	(30°-60°)	2476.6	36.8			
FH	(60°-80°)	3090.4	45.9			G2/5000
FVH	(80°-90°)	67.5	1.0			G1/100
BL	(0°-30°)	182.2	2.7	B1/500		
BM	(30°-60°)	346.4	5.1	B1/1000		
BH	(60°-80°)	162.1	2.4	B1/500		G1/500
BVH	(80°-90°)	0.6	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°	35°	45°	46°	55°	65°	75°	85°
0°	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
2.5°	749.7	748.7	744.3	742.4	731.7	725.3	722.8	714.9	703.6	692.2	679.6
5°	834.9	834.6	826.4	818.5	798.3	779.3	775.9	757.6	732.0	708.0	684.0
7.5°	922.1	918.0	909.8	894.6	865.2	834.9	832.1	806.2	769.9	735.1	700.7
10°	996.0	993.4	982.7	959.7	925.2	890.8	887.3	855.4	814.4	771.8	727.9
12.5°	1053.4	1051.5	1037.3	1008.6	972.0	936.3	931.6	903.1	859.2	811.6	759.8
15°	1088.5	1087.5	1070.2	1039.5	1003.5	972.6	968.5	943.6	902.8	852.9	794.5
17.5°	1096.7	1097.0	1079.0	1048.1	1018.4	996.3	993.1	974.2	940.1	890.5	829.2
20°	1078.4	1082.2	1066.1	1039.2	1020.9	1009.2	1006.7	995.3	966.6	919.9	857.0
22.5°	1052.5	1054.4	1043.3	1025.3	1017.8	1020.0	1018.7	1012.4	988.1	945.1	884.5
25°	1036.7	1036.7	1030.1	1014.9	1020.0	1033.5	1033.9	1032.6	1013.3	976.1	918.0
27.5°	1036.1	1034.2	1026.6	1015.2	1029.1	1050.0	1051.2	1059.8	1047.8	1013.7	959.7
30°	1061.3	1059.1	1043.0	1028.2	1045.9	1068.3	1071.4	1090.1	1084.1	1054.4	1006.1
32.5°	1120.4	1112.5	1076.8	1052.5	1065.8	1092.6	1096.7	1126.4	1135.9	1104.6	1050.9
35°	1201.2	1176.3	1124.8	1098.6	1099.9	1128.0	1131.8	1175.3	1203.4	1150.7	1085.7
37.5°	1312.7	1300.4	1216.7	1146.6	1152.3	1194.9	1206.0	1253.3	1245.4	1176.0	1125.1
40°	1557.1	1537.8	1448.8	1281.1	1202.5	1249.2	1252.7	1278.0	1278.6	1233.1	1207.2
42.5°	1889.9	1882.0	1788.3	1525.2	1301.3	1285.5	1291.9	1334.5	1382.2	1353.7	1352.5
45°	2258.5	2254.4	2154.9	1849.2	1501.2	1404.6	1412.5	1469.6	1560.9	1567.2	1607.3
47.5°	2555.0	2553.1	2495.9	2210.8	1807.2	1606.4	1608.9	1669.5	1829.9	1909.2	1973.3
50°	2825.3	2834.4	2789.3	2602.0	2224.0	1922.5	1916.5	1956.9	2214.6	2344.4	2423.9
52.5°	3201.1	3214.0	3087.4	2967.1	2661.4	2314.7	2309.9	2352.2	2676.9	2774.1	2788.3
55°	3532.9	3510.8	3410.7	3376.0	3194.7	2799.1	2797.8	2835.1	3124.0	3165.4	3191.6
57.5°	3679.5	3670.9	3719.3	3798.8	3753.4	3371.6	3368.7	3340.3	3524.1	3528.5	3609.0
60°	3772.0	3782.4	3930.5	4175.9	4289.2	3987.7	3969.4	3796.0	3906.2	3896.4	3982.6
62.5°	3702.5	3723.0	3989.6	4398.5	4690.3	4525.4	4499.5	4213.5	4232.7	4198.9	4279.1
65°	3333.7	3365.6	3802.3	4356.5	4889.2	4945.7	4919.5	4582.0	4492.0	4436.4	4391.9
67.5°	2706.9	2725.8	3181.8	3991.1	4799.5	5196.5	5191.1	4905.0	4687.8	4396.3	4050.8
69°	2237.0	2255.6	2694.6	3606.5	4602.2	5250.2	5260.6	5008.6	4650.5	4152.5	3589.2
70°	1894.7	1914.6	2323.5	3276.8	4373.2	5225.2	5243.8	4998.8	4543.8	3870.2	3184.0
72.5°	993.8	1010.8	1430.5	2257.5	3565.2	4798.0	4854.5	4576.3	3851.6	2810.8	1882.7
75°	312.3	322.1	558.6	1180.1	2441.0	3730.6	3743.6	3589.8	2735.0	1546.1	784.1
77.5°	119.0	116.2	186.0	434.8	1234.1	2349.1	2428.3	2243.3	1435.2	546.6	180.9
80°	64.1	64.4	96.6	180.0	528.0	1207.2	1274.2	1087.2	510.0	170.5	41.7
82.5°	27.8	29.1	54.3	95.4	242.5	445.2	478.7	398.5	194.8	114.6	15.5
85°	6.0	6.6	26.2	51.8	98.8	125.0	131.0	129.2	124.1	89.0	6.0
87.5°	0.0	0.0	11.7	18.6	24.9	28.4	24.9	32.5	68.5	60.0	3.2
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°	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8	674.8
2.5°	675.5	669.8	660.0	649.2	641.7	633.8	627.5	624.6	621.5	619.2	622.1
5°	674.2	663.1	644.2	625.9	612.6	601.9	593.0	589.6	586.1	583.6	583.2
7.5°	685.2	669.8	640.7	613.9	593.4	578.8	566.8	561.8	557.7	555.8	554.2
10°	706.4	686.5	647.7	612.6	586.1	561.5	535.6	515.7	502.7	496.7	494.5
12.5°	733.9	708.9	660.9	619.2	580.7	533.4	478.4	431.0	400.4	390.3	384.3
15°	766.1	735.1	678.3	627.8	561.1	474.6	381.5	319.6	291.1	285.5	279.1
17.5°	797.0	762.9	699.1	629.3	518.2	379.3	279.5	237.5	226.4	230.2	231.2
20°	824.2	790.4	719.7	615.5	440.2	284.5	216.3	205.9	210.0	217.3	218.5
22.5°	851.7	816.9	738.6	578.8	340.4	216.0	194.8	197.4	201.5	208.7	210.0
25°	885.1	849.1	756.3	511.6	255.5	183.8	185.0	188.8	192.9	199.6	200.2
27.5°	923.7	889.9	768.0	424.1	189.5	168.9	173.0	178.7	182.8	189.2	190.4
30°	974.8	943.6	771.8	333.5	158.8	155.7	157.6	164.5	170.5	176.2	177.2
32.5°	1022.8	996.6	759.1	251.7	147.2	143.4	143.4	147.5	154.4	159.8	161.0
35°	1067.0	1050.0	718.7	184.1	138.3	132.0	128.8	128.8	133.3	137.7	138.9
37.5°	1125.4	1124.8	653.3	146.8	129.8	122.5	115.9	110.8	109.3	110.2	110.8
40°	1225.5	1226.5	568.1	131.7	122.5	112.7	102.6	93.5	84.9	82.1	81.8
42.5°	1381.9	1367.6	478.7	124.4	116.2	102.6	87.5	75.2	61.9	57.8	57.5
45°	1630.1	1545.7	384.0	117.8	109.6	91.3	72.3	55.6	44.8	41.7	41.7
47.5°	1991.6	1779.7	297.5	110.5	100.7	78.3	54.6	40.1	32.8	31.3	31.6
50°	2365.5	2009.0	228.0	101.4	90.0	64.7	40.4	29.1	24.9	24.9	25.3
52.5°	2697.1	2177.0	177.8	91.6	76.7	50.8	30.6	22.7	20.8	20.5	20.8
55°	3007.5	2285.3	136.1	80.2	60.9	37.9	23.4	18.6	17.4	16.7	16.4
57.5°	3306.8	2339.0	102.0	64.7	44.2	27.5	18.6	15.8	14.5	13.6	13.3
60°	3506.1	2295.4	70.1	47.7	30.6	19.9	15.5	13.6	12.0	11.1	10.7
62.5°	3618.5	2176.4	45.2	34.4	21.8	14.8	12.3	11.4	9.2	8.2	8.2
65°	3573.1	1979.9	31.6	24.6	15.8	11.1	9.2	9.2	6.6	5.4	5.1
67.5°	3166.3	1672.7	24.0	18.3	11.4	8.2	6.9	7.9	4.1	2.5	2.5
69°	2724.2	1386.3	20.5	15.2	9.5	6.6	6.0	7.3	2.8	1.9	1.6
70°	2367.7	1195.9	18.6	13.3	7.9	5.7	5.4	6.9	2.8	1.6	1.3
72.5°	1416.6	666.9	14.2	9.5	5.1	4.4	4.4	7.9	2.8	1.6	1.3
75°	572.5	234.9	10.4	6.6	3.8	3.8	5.4	10.1	2.5	1.3	0.9
77.5°	129.8	51.5	6.0	4.1	2.5	3.8	6.3	7.9	1.6	0.6	0.0
80°	31.6	12.6	3.8	2.5	1.6	2.8	4.7	4.4	0.3	0.0	0.0
82.5°	10.4	4.4	1.6	1.3	0.3	0.9	2.2	1.3	0.0	0.0	0.0
85°	4.4	2.5	0.6	0.3	0.0	0.0	0.3	0.0	0.0	0.0	0.0
87.5°	2.8	0.9	0.0	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)