

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: P321377

Luminaire Tested: **GAN-SA3D-760-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321377
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-760-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19120 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

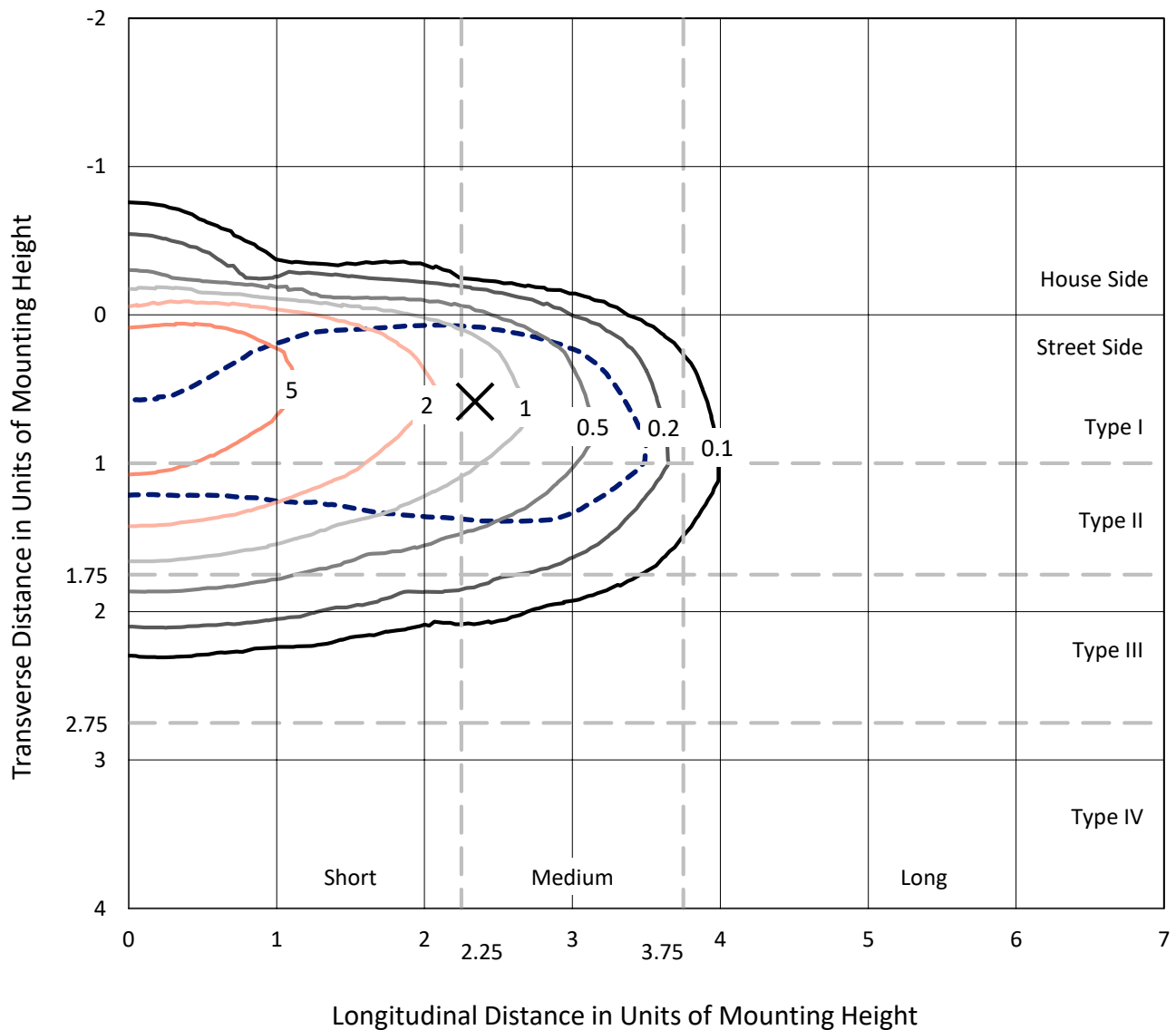
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

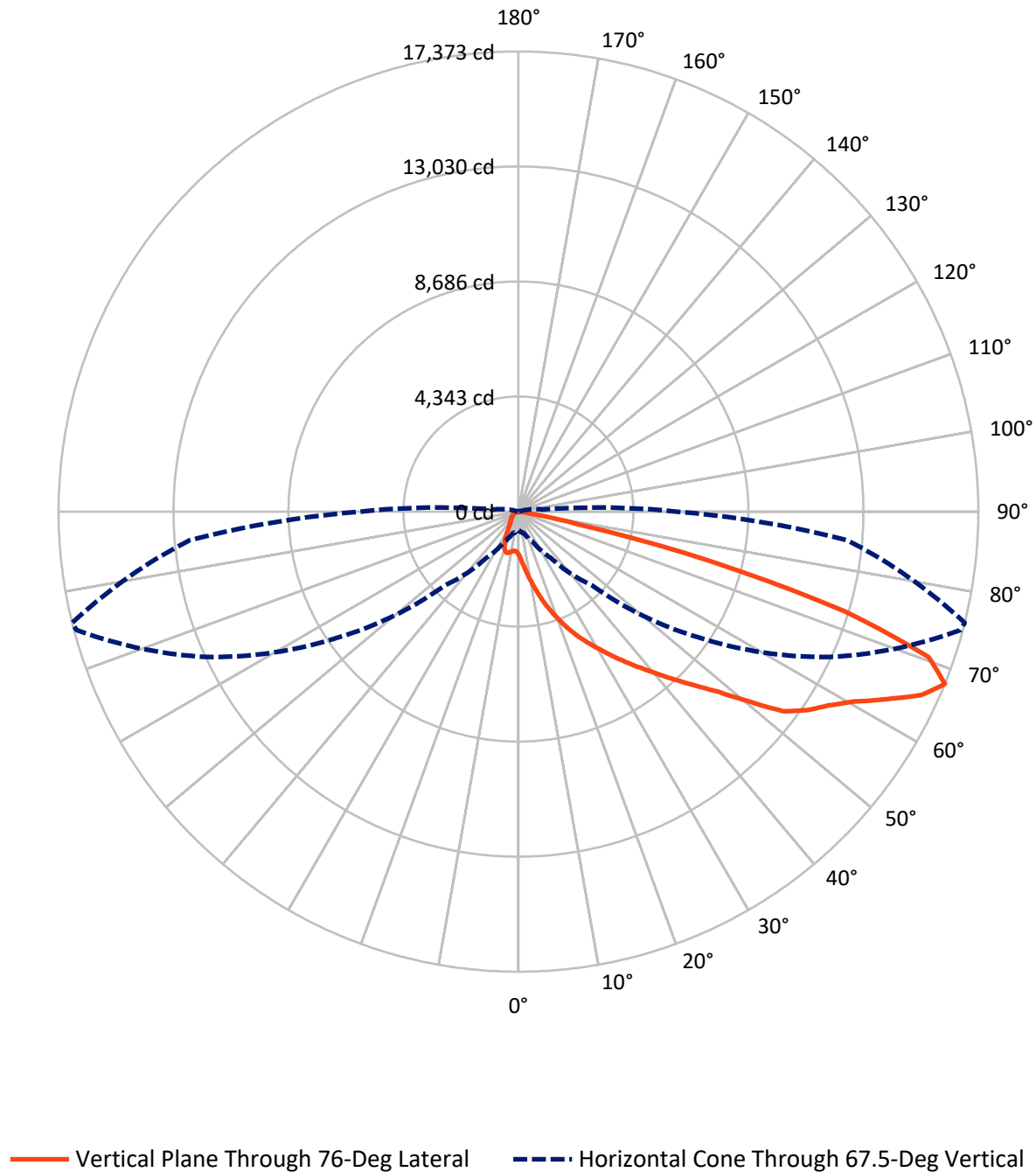
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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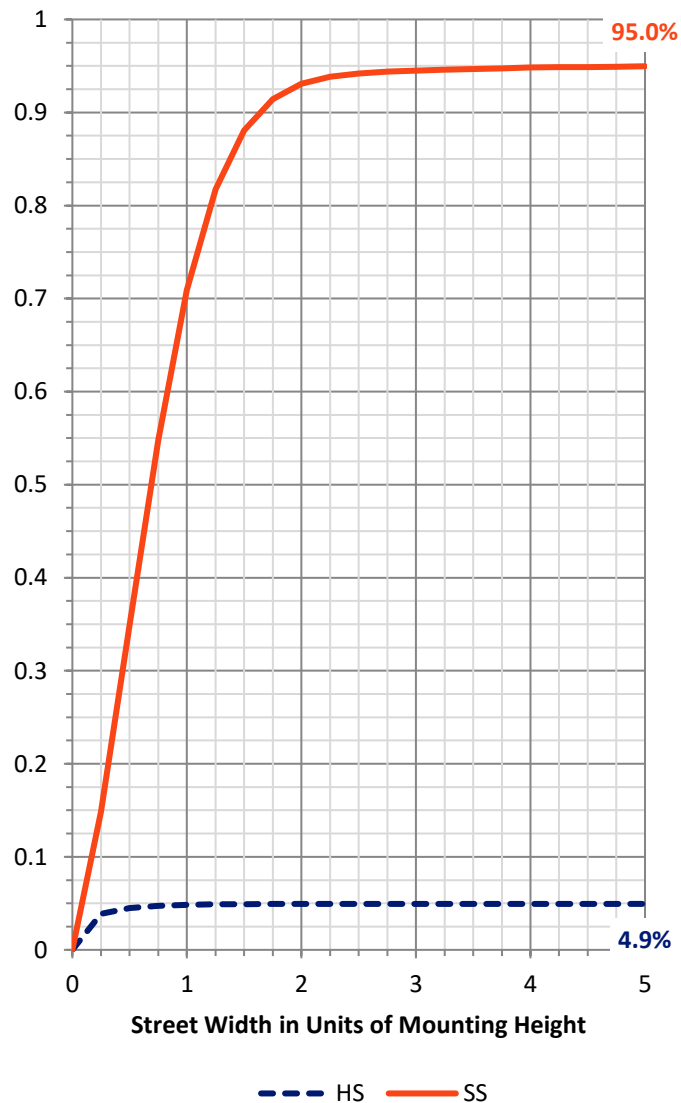
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	949.5	0.0	949.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	18170.6	0.0	18170.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	19120.0	0.0	19120.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.7	1.1
10°-20°	799.5	4.2
20°-30°	1626.7	8.5
30°-40°	2823.5	14.8
40°-50°	3989.2	20.9
50°-60°	4524.0	23.7
60°-70°	3752.2	19.6
70°-80°	1359.2	7.1
80°-90°	44.1	0.2
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°	19120.0	100.0
0°-180°	19120.0	100.0

Coefficient of Utilization



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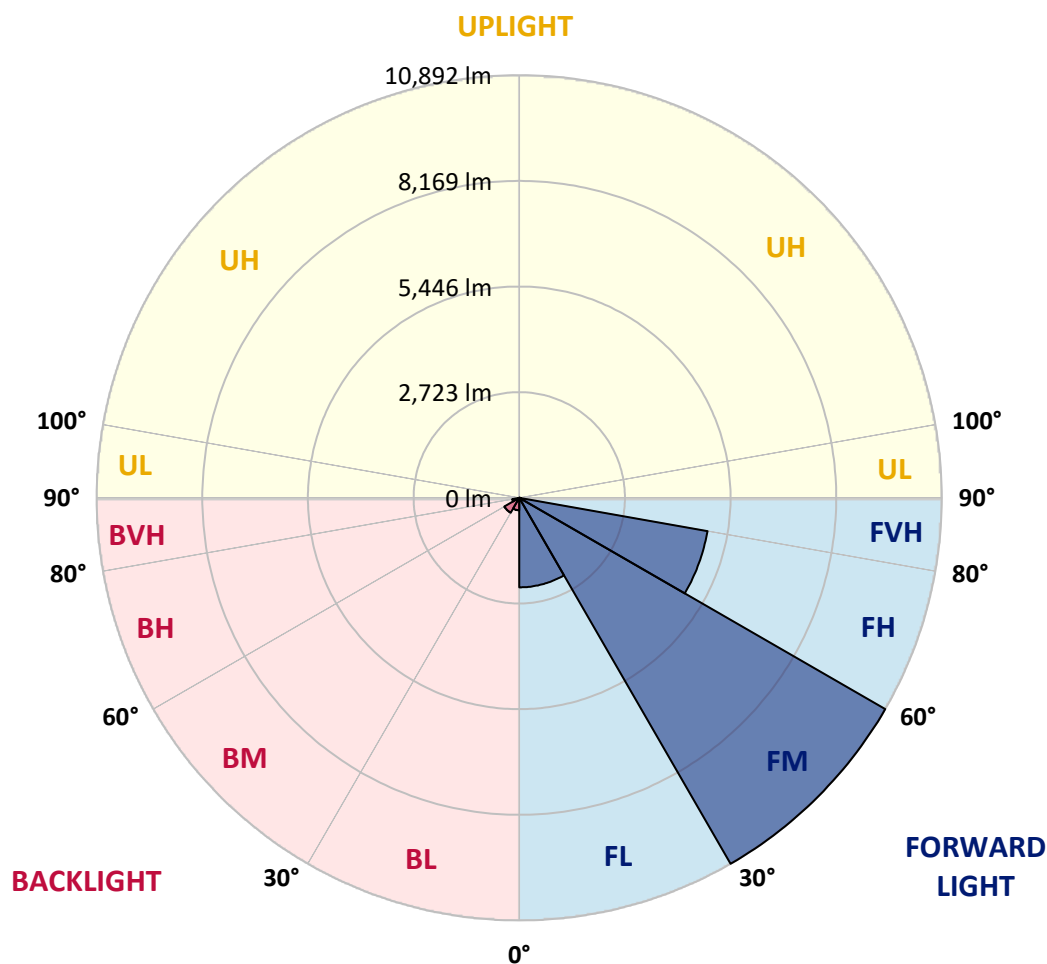
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2307.7	12.1			
FM	(30°-60°)	10892.3	57.0			
FH	(60°-80°)	4927.9	25.8			G2/5000
FVH	(80°-90°)	42.7	0.2			G1/100
BL	(0°-30°)	320.2	1.7	B1/500		
BM	(30°-60°)	444.4	2.3	B1/1000		
BH	(60°-80°)	183.5	1.0	B1/500		G1/500
BVH	(80°-90°)	1.4	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9
2.5°	2421.2	2366.7	2379.3	2344.1	2280.4	2149.7	2038.3	1932.7	1809.6	1805.4	1704.0
5°	3264.8	3218.7	3212.9	3141.7	3026.0	2804.0	2587.9	2341.6	2066.8	2046.7	1831.4
7.5°	4030.5	3993.7	3980.3	3895.6	3680.3	3464.2	3182.7	2820.8	2391.0	2354.1	2003.1
10°	4618.6	4601.1	4604.4	4544.1	4359.8	4158.7	3789.3	3327.6	2758.8	2701.8	2209.2
12.5°	5064.3	5068.5	5098.7	5061.8	4958.8	4809.7	4415.1	3868.0	3165.9	3088.0	2444.6
15°	5391.9	5412.9	5468.1	5514.2	5506.7	5377.7	5015.8	4416.7	3598.2	3511.9	2706.8
17.5°	5603.9	5627.3	5707.8	5810.0	5903.8	5873.6	5595.5	4946.2	4035.6	3935.9	2987.5
20°	5789.9	5817.5	5903.8	6038.7	6213.8	6251.5	6068.8	5459.8	4472.0	4350.6	3277.4
22.5°	6192.8	6192.0	6244.8	6323.5	6490.2	6587.4	6471.8	5936.5	4903.5	4777.0	3573.1
25°	6921.7	6894.0	6875.6	6813.6	6850.5	6910.8	6846.3	6382.2	5337.5	5209.3	3873.0
27.5°	7787.9	7804.7	7655.6	7488.9	7359.8	7297.8	7192.3	6795.2	5754.7	5613.9	4166.2
30°	8702.0	8707.0	8531.0	8318.3	8034.2	7798.8	7616.2	7189.8	6183.6	6030.3	4451.1
32.5°	9526.3	9493.7	9319.4	9029.5	8671.0	8406.2	8026.7	7630.4	6637.7	6489.4	4767.8
35°	10179.8	10141.2	9929.3	9665.4	9293.4	9027.0	8570.4	8070.3	7115.2	6970.3	5085.3
37.5°	10657.3	10612.1	10394.3	10122.8	9802.0	9647.0	9201.3	8548.6	7636.3	7480.5	5419.6
40°	10823.2	10783.8	10647.3	10448.7	10190.7	10155.5	9870.6	9099.1	8203.5	8037.6	5798.2
42.5°	10724.3	10685.8	10637.2	10570.2	10463.0	10496.5	10502.3	9726.6	8833.5	8670.1	6216.3
45°	10332.3	10297.9	10348.2	10446.2	10579.4	10745.3	11078.7	10401.0	9537.2	9363.0	6699.7
47.5°	9755.0	9729.9	9869.0	10113.6	10503.2	10960.6	11605.7	11109.7	10327.2	10165.5	7302.9
50°	8934.0	8929.8	9208.0	9654.5	10253.5	11064.5	12150.2	11915.7	11424.7	11254.7	8141.5
52.5°	7655.6	7664.0	8211.0	8925.6	9815.4	10994.1	12500.4	12951.1	12701.5	12524.7	8867.8
55°	6438.3	6488.6	6876.4	7906.9	9143.5	10732.7	12621.1	13434.5	13406.1	13238.5	9271.6
57.5°	5246.1	5337.5	5711.1	6673.7	8162.4	10130.4	12554.9	13644.0	13930.5	13802.3	9804.5
60°	3954.3	3996.2	4426.8	5326.6	6903.3	9031.2	12074.8	13757.9	14647.6	14558.8	10577.7
62.5°	2515.8	2620.6	3002.6	3870.5	5375.2	7504.8	11265.5	13756.2	15544.9	15593.5	11575.5
65°	1325.4	1447.7	1650.4	2398.5	3693.7	5799.9	10048.3	13627.2	16645.7	16713.6	12355.5
67.5°	714.6	749.8	857.0	1244.9	2142.2	3929.2	8259.6	12990.5	17283.3	17372.9	12464.4
70°	522.8	542.0	582.3	688.6	1078.2	2282.1	6026.9	11547.0	16461.4	16427.9	11074.5
72.5°	401.3	431.5	461.6	504.3	620.0	1218.1	3752.4	9042.1	13134.6	12913.4	8278.0
75°	316.7	321.7	364.4	403.0	465.0	693.7	1666.3	5266.2	8016.7	7493.0	4292.8
77.5°	253.0	256.4	281.5	315.0	373.6	455.7	516.1	2071.8	2559.4	2283.8	931.6
80°	150.0	158.3	209.4	243.0	310.0	287.4	188.5	449.9	399.6	361.9	156.7
82.5°	83.8	90.5	118.1	191.9	216.1	137.4	93.8	121.5	93.8	91.3	44.4
85°	0.0	4.2	76.2	119.0	88.0	30.2	39.4	40.2	27.6	26.0	17.6
87.5°	0.0	0.0	23.5	22.6	3.4	5.0	9.2	13.4	10.9	10.9	9.2
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°	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9	1621.9
2.5°	1653.8	1608.5	1523.1	1439.3	1368.9	1311.1	1259.2	1238.2	1221.5	1219.0	1205.6
5°	1727.5	1636.2	1472.8	1338.8	1249.1	1185.4	1131.0	1097.5	1071.5	1061.5	1052.2
7.5°	1838.9	1700.7	1466.1	1312.0	1204.7	1097.5	997.0	888.0	820.2	794.2	779.1
10°	1974.6	1786.1	1491.2	1304.4	1116.8	890.6	723.8	585.6	529.5	511.0	506.0
12.5°	2133.0	1892.5	1534.8	1257.5	929.1	632.5	499.3	452.4	439.8	434.0	434.0
15°	2314.8	2009.0	1565.8	1121.8	687.0	478.4	432.3	410.5	397.1	389.6	390.4
17.5°	2500.8	2122.9	1550.7	924.9	506.9	425.6	391.2	367.8	349.4	341.8	340.1
20°	2688.4	2228.5	1466.9	688.6	428.9	386.2	347.7	321.7	303.3	295.7	294.1
22.5°	2882.8	2318.1	1319.5	505.2	385.4	342.6	304.9	279.0	261.4	254.7	251.3
25°	3072.1	2391.0	1113.4	408.8	344.3	301.6	265.6	241.3	225.4	218.7	217.8
27.5°	3248.9	2437.1	874.6	361.1	308.3	264.7	232.1	210.3	196.9	191.9	191.0
30°	3408.1	2441.3	646.8	325.9	276.5	232.9	202.7	183.5	171.7	166.7	165.0
32.5°	3568.9	2406.1	470.8	294.1	247.1	205.3	175.9	160.9	152.5	148.3	148.3
35°	3720.6	2324.8	366.9	266.4	218.7	178.4	155.0	144.1	139.1	134.9	134.9
37.5°	3868.8	2208.4	311.7	242.1	191.9	155.8	136.6	129.9	125.7	121.5	121.5
40°	4019.6	2061.8	283.2	219.5	170.1	138.2	121.5	115.6	111.4	108.1	107.2
42.5°	4204.8	1892.5	264.7	198.6	150.8	122.3	107.2	100.5	97.2	93.8	92.2
45°	4419.3	1746.8	249.7	177.6	134.9	108.9	93.0	86.3	81.3	77.1	76.2
47.5°	4728.4	1641.2	229.5	155.0	119.8	94.7	80.4	72.9	65.3	61.2	60.3
50°	5123.0	1554.1	203.6	134.9	104.7	80.4	67.0	57.8	51.1	46.9	46.9
52.5°	5319.0	1440.1	180.1	117.3	88.0	67.9	54.5	43.6	40.2	36.0	36.0
55°	5397.8	1353.0	156.7	99.7	72.9	56.1	42.7	33.5	31.0	28.5	27.6
57.5°	5618.9	1327.9	136.6	84.6	60.3	44.4	32.7	25.1	23.5	20.1	20.1
60°	5975.0	1340.4	118.1	72.0	48.6	34.3	24.3	19.3	17.6	14.2	14.2
62.5°	6359.5	1324.5	99.7	62.0	37.7	25.1	16.8	14.2	14.2	8.4	7.5
65°	6433.3	1179.6	85.5	51.1	29.3	18.4	10.9	9.2	12.6	1.7	0.0
67.5°	5970.8	914.8	73.7	39.4	21.8	14.2	8.4	4.2	10.9	0.0	0.0
70°	4774.5	581.4	59.5	28.5	16.8	11.7	6.7	1.7	8.4	0.0	0.0
72.5°	3376.2	337.6	46.9	20.1	14.2	9.2	5.0	0.0	5.0	0.0	0.0
75°	1707.4	180.1	29.3	15.1	10.9	6.7	3.4	0.0	0.8	0.0	0.0
77.5°	369.5	83.8	18.4	10.9	7.5	4.2	1.7	0.0	0.0	0.0	0.0
80°	80.4	36.9	11.7	6.7	4.2	2.5	0.0	0.0	0.0	0.0	0.0
82.5°	29.3	19.3	5.9	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.9	10.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.4	3.4	0.8	0.8	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)