

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: P321207

Luminaire Tested: **GAN-SA3C-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321207
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-SA3C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 1050mA 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: 14576 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

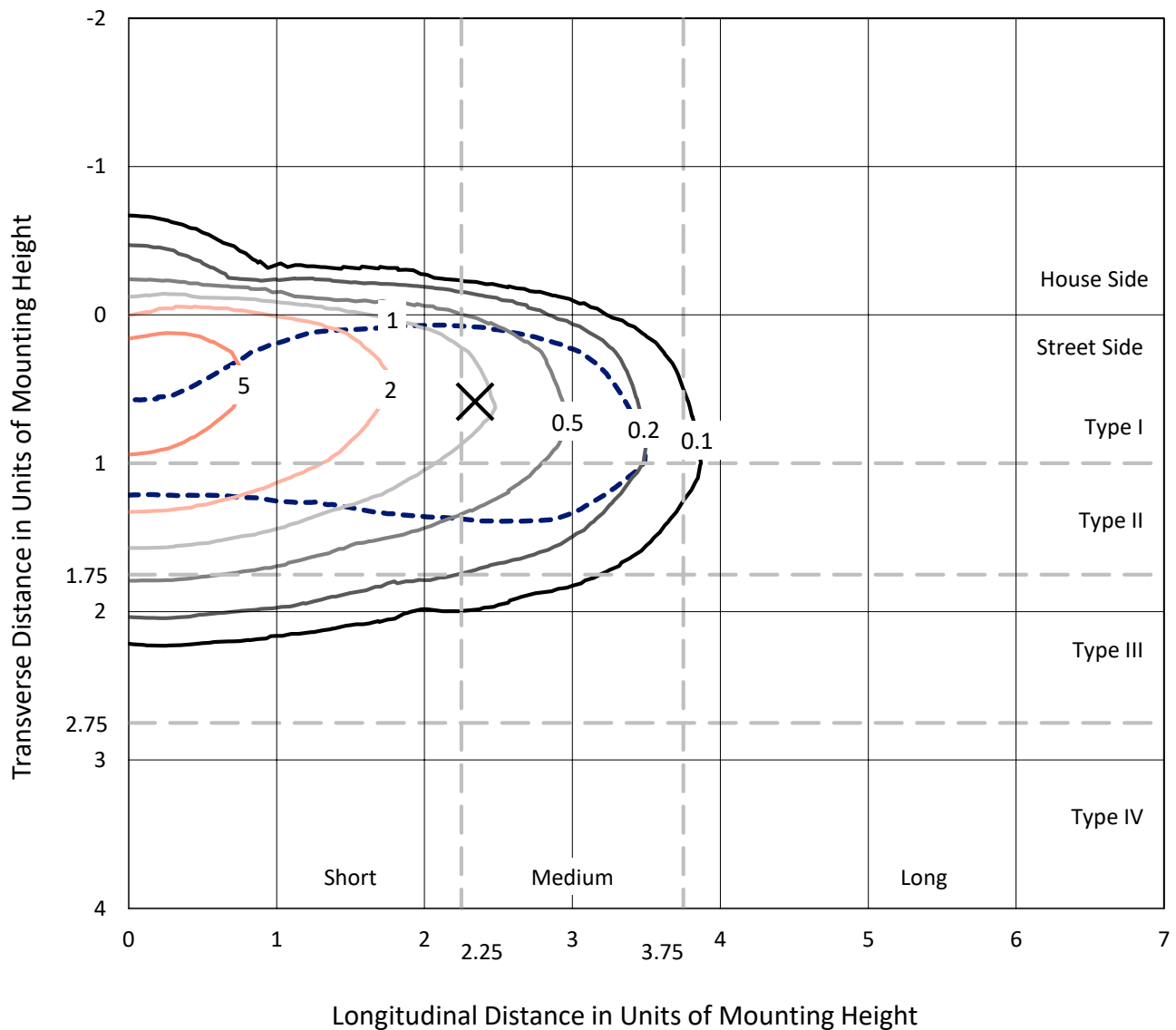
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

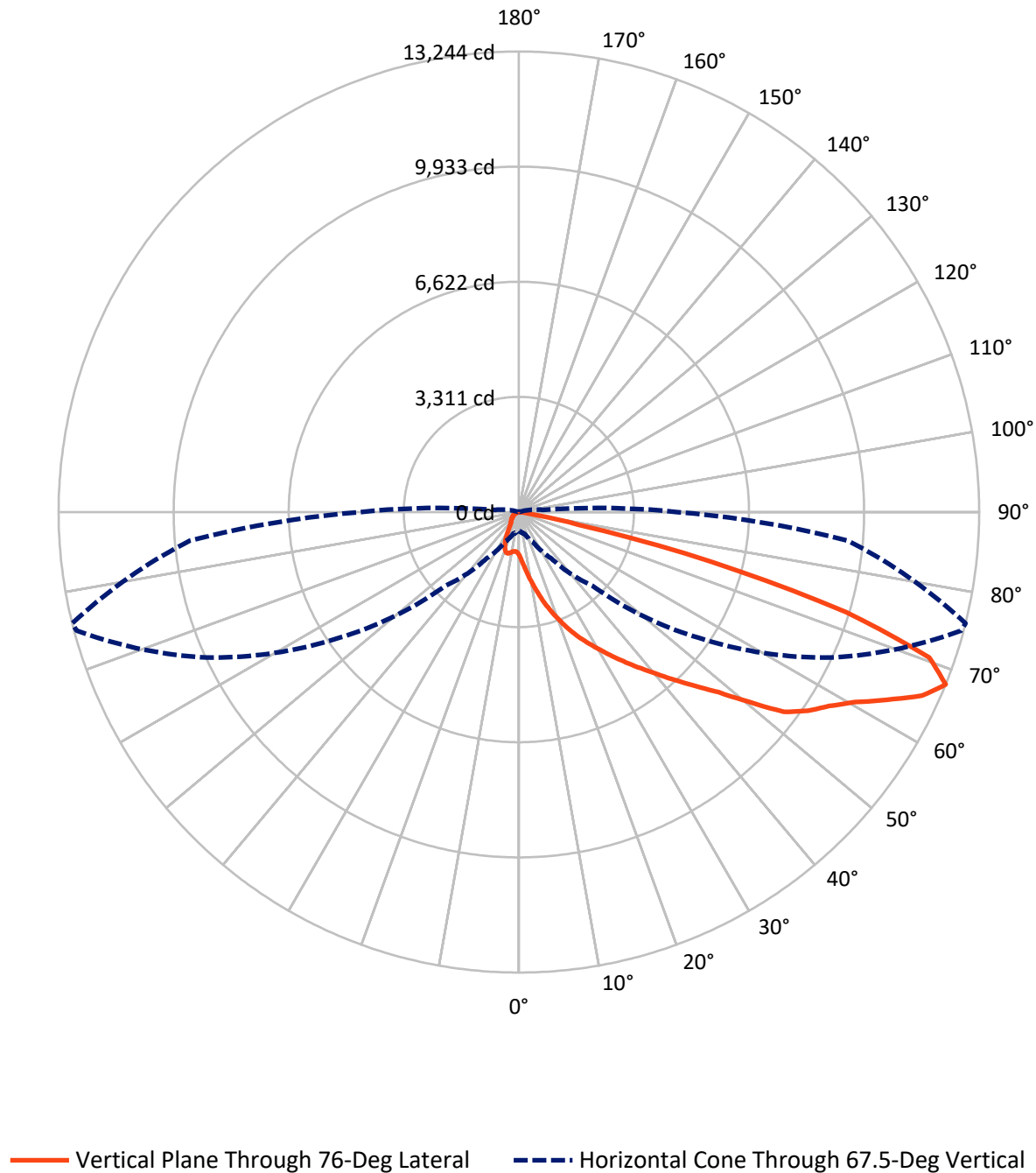
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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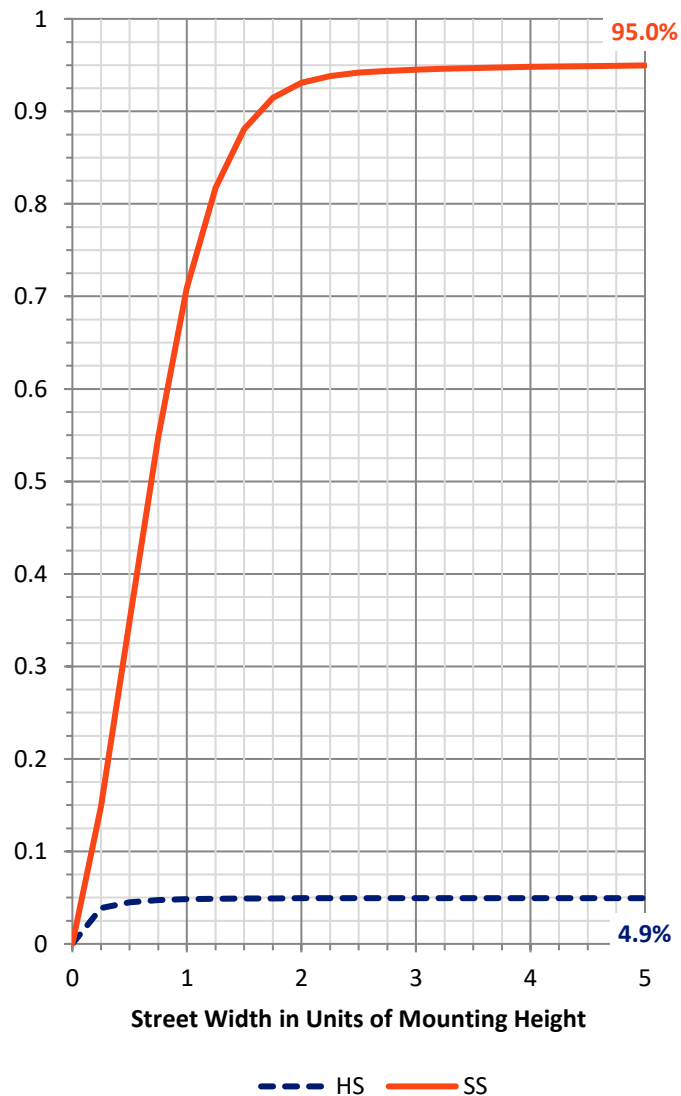
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	723.8	0.0	723.8
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13852.2	0.0	13852.2
	% Fixture	95.0	0.0	95.0
Total	Lumens	14576.0	0.0	14576.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.8	1.1
10°-20°	609.5	4.2
20°-30°	1240.1	8.5
30°-40°	2152.5	14.8
40°-50°	3041.1	20.9
50°-60°	3448.8	23.7
60°-70°	2860.5	19.6
70°-80°	1036.1	7.1
80°-90°	33.6	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°	14576.0	100.0
0°-180°	14576.0	100.0

Coefficient of Utilization



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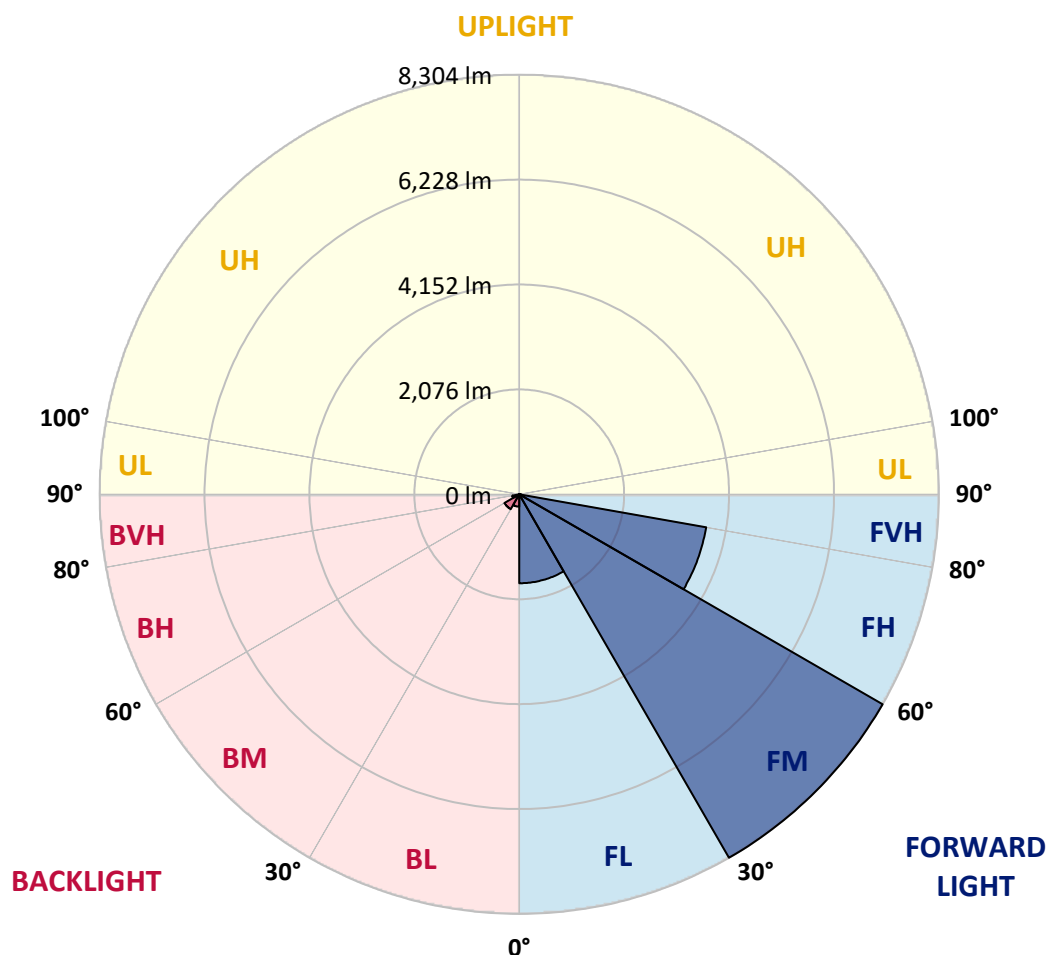
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1759.3	12.1			
FM	(30°-60°)	8303.7	57.0			
FH	(60°-80°)	3756.7	25.8			G2/5000
FVH	(80°-90°)	32.5	0.2			G1/100
BL	(0°-30°)	244.1	1.7	B1/500		
BM	(30°-60°)	338.8	2.3	B1/1000		
BH	(60°-80°)	139.9	1.0	B1/500		G1/500
BVH	(80°-90°)	1.1	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°	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5
2.5°	1845.8	1804.2	1813.8	1787.0	1738.5	1638.8	1553.9	1473.4	1379.5	1376.3	1299.1
5°	2488.9	2453.8	2449.3	2395.0	2306.9	2137.6	1972.9	1785.1	1575.6	1560.3	1396.1
7.5°	3072.6	3044.5	3034.3	2969.8	2805.7	2640.9	2426.3	2150.4	1822.8	1794.7	1527.1
10°	3521.0	3507.6	3510.1	3464.2	3323.6	3170.4	2888.7	2536.8	2103.1	2059.7	1684.2
12.5°	3860.8	3864.0	3887.0	3858.8	3780.3	3666.6	3365.8	2948.7	2413.5	2354.1	1863.6
15°	4110.5	4126.5	4168.6	4203.7	4198.0	4099.6	3823.7	3367.1	2743.1	2677.3	2063.5
17.5°	4272.1	4290.0	4351.3	4429.2	4500.7	4477.7	4265.7	3770.7	3076.5	3000.5	2277.5
20°	4413.9	4434.9	4500.7	4603.5	4737.0	4765.8	4626.5	4162.2	3409.2	3316.6	2498.5
22.5°	4721.1	4720.4	4760.7	4820.7	4947.8	5021.9	4933.7	4525.6	3738.1	3641.7	2723.9
25°	5276.7	5255.6	5241.6	5194.3	5222.4	5268.4	5219.2	4865.4	4069.0	3971.3	2952.6
27.5°	5937.1	5949.9	5836.2	5709.1	5610.7	5563.5	5483.0	5180.3	4387.0	4279.7	3176.1
30°	6633.9	6637.7	6503.6	6341.4	6124.9	5945.4	5806.2	5481.1	4714.0	4597.2	3393.3
32.5°	7262.3	7237.4	7104.6	6883.6	6610.2	6408.4	6119.1	5817.0	5060.2	4947.1	3634.7
35°	7760.5	7731.1	7569.5	7368.3	7084.8	6881.7	6533.6	6152.3	5424.2	5313.7	3876.7
37.5°	8124.5	8090.0	7924.0	7717.1	7472.5	7354.3	7014.5	6517.0	5821.5	5702.7	4131.6
40°	8251.0	8221.0	8116.9	7965.5	7768.8	7742.0	7524.8	6936.6	6253.9	6127.4	4420.2
42.5°	8175.6	8146.2	8109.2	8058.1	7976.4	8001.9	8006.4	7415.0	6734.1	6609.6	4738.9
45°	7876.7	7850.5	7888.9	7963.6	8065.1	8191.6	8445.8	7929.1	7270.6	7137.8	5107.5
47.5°	7436.7	7417.5	7523.5	7710.0	8007.0	8355.7	8847.5	8469.4	7872.9	7749.6	5567.3
50°	6810.8	6807.6	7019.6	7360.0	7816.7	8434.9	9262.6	9083.8	8709.6	8579.9	6206.6
52.5°	5836.2	5842.6	6259.6	6804.4	7482.7	8381.3	9529.6	9873.2	9682.9	9548.1	6760.3
55°	4908.2	4946.5	5242.2	6027.8	6970.5	8182.0	9621.6	10241.7	10220.0	10092.3	7068.2
57.5°	3999.4	4069.0	4353.8	5087.7	6222.6	7722.8	9571.1	10401.4	10619.8	10522.1	7474.4
60°	3014.5	3046.5	3374.7	4060.7	5262.6	6884.9	9205.2	10488.3	11166.5	11098.8	8063.9
62.5°	1917.9	1997.8	2289.0	2950.7	4097.7	5721.2	8588.2	10487.0	11850.5	11887.6	8824.5
65°	1010.4	1103.6	1258.2	1828.5	2815.9	4421.5	7660.2	10388.6	12689.8	12741.5	9419.1
67.5°	544.8	571.6	653.4	949.1	1633.1	2995.4	6296.7	9903.2	13175.8	13244.1	9502.1
70°	398.5	413.2	443.9	525.0	822.0	1739.7	4594.6	8802.8	12549.2	12523.7	8442.6
72.5°	305.9	328.9	351.9	384.5	472.6	928.6	2860.6	6893.2	10013.1	9844.5	6310.7
75°	241.4	245.2	277.8	307.2	354.5	528.8	1270.3	4014.7	6111.4	5712.3	3272.5
77.5°	192.9	195.4	214.6	240.1	284.8	347.4	393.4	1579.4	1951.1	1741.0	710.2
80°	114.3	120.7	159.7	185.2	236.3	219.1	143.7	343.0	304.6	275.9	119.4
82.5°	63.9	69.0	90.1	146.3	164.8	104.7	71.5	92.6	71.5	69.6	33.8
85°	0.0	3.2	58.1	90.7	67.1	23.0	30.0	30.7	21.1	19.8	13.4
87.5°	0.0	0.0	17.9	17.2	2.6	3.8	7.0	10.2	8.3	8.3	7.0
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°	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5	1236.5
2.5°	1260.7	1226.2	1161.1	1097.2	1043.6	999.5	959.9	944.0	931.2	929.3	919.0
5°	1316.9	1247.3	1122.8	1020.6	952.3	903.7	862.2	836.7	816.9	809.2	802.2
7.5°	1401.9	1296.5	1117.7	1000.2	918.4	836.7	760.0	677.0	625.3	605.5	594.0
10°	1505.3	1361.6	1136.8	994.4	851.3	678.9	551.8	446.4	403.6	389.6	385.8
12.5°	1626.1	1442.8	1170.0	958.6	708.3	482.2	380.6	344.9	335.3	330.8	330.8
15°	1764.6	1531.5	1193.7	855.2	523.7	364.7	329.6	312.9	302.7	297.0	297.6
17.5°	1906.4	1618.4	1182.2	705.1	386.4	324.4	298.3	280.4	266.3	260.6	259.3
20°	2049.5	1698.9	1118.3	525.0	327.0	294.4	265.0	245.2	231.2	225.5	224.2
22.5°	2197.7	1767.2	1005.9	385.1	293.8	261.2	232.5	212.7	199.3	194.2	191.6
25°	2342.0	1822.8	848.8	311.7	262.5	229.9	202.5	183.9	171.8	166.7	166.1
27.5°	2476.8	1857.9	666.8	275.3	235.0	201.8	176.9	160.3	150.1	146.3	145.6
30°	2598.1	1861.1	493.1	248.4	210.8	177.6	154.6	139.9	130.9	127.1	125.8
32.5°	2720.7	1834.3	358.9	224.2	188.4	156.5	134.1	122.6	116.2	113.0	113.0
35°	2836.3	1772.3	279.7	203.1	166.7	136.0	118.2	109.9	106.0	102.8	102.8
37.5°	2949.4	1683.5	237.6	184.6	146.3	118.8	104.1	99.0	95.8	92.6	92.6
40°	3064.3	1571.8	215.9	167.3	129.7	105.4	92.6	88.1	84.9	82.4	81.7
42.5°	3205.5	1442.8	201.8	151.4	115.0	93.2	81.7	76.6	74.1	71.5	70.3
45°	3369.0	1331.6	190.3	135.4	102.8	83.0	70.9	65.8	62.0	58.8	58.1
47.5°	3604.7	1251.2	175.0	118.2	91.3	72.2	61.3	55.6	49.8	46.6	46.0
50°	3905.5	1184.7	155.2	102.8	79.8	61.3	51.1	44.1	39.0	35.8	35.8
52.5°	4054.9	1097.9	137.3	89.4	67.1	51.7	41.5	33.2	30.7	27.5	27.5
55°	4115.0	1031.5	119.4	76.0	55.6	42.8	32.6	25.5	23.6	21.7	21.1
57.5°	4283.6	1012.3	104.1	64.5	46.0	33.8	24.9	19.2	17.9	15.3	15.3
60°	4555.0	1021.9	90.1	54.9	37.0	26.2	18.5	14.7	13.4	10.9	10.9
62.5°	4848.2	1009.7	76.0	47.3	28.7	19.2	12.8	10.9	10.9	6.4	5.7
65°	4904.4	899.2	65.1	39.0	22.4	14.1	8.3	7.0	9.6	1.3	0.0
67.5°	4551.8	697.4	56.2	30.0	16.6	10.9	6.4	3.2	8.3	0.0	0.0
70°	3639.8	443.2	45.3	21.7	12.8	8.9	5.1	1.3	6.4	0.0	0.0
72.5°	2573.8	257.4	35.8	15.3	10.9	7.0	3.8	0.0	3.8	0.0	0.0
75°	1301.6	137.3	22.4	11.5	8.3	5.1	2.6	0.0	0.6	0.0	0.0
77.5°	281.7	63.9	14.1	8.3	5.7	3.2	1.3	0.0	0.0	0.0	0.0
80°	61.3	28.1	8.9	5.1	3.2	1.9	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	14.7	4.5	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.1	7.7	2.6	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.6	0.6	0.6	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)