

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: P321209

Luminaire Tested: **GAN-SA5C-727-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321209
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-SA5C-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 23863 lumens
Efficiency: N/A
Efficacy: 85.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

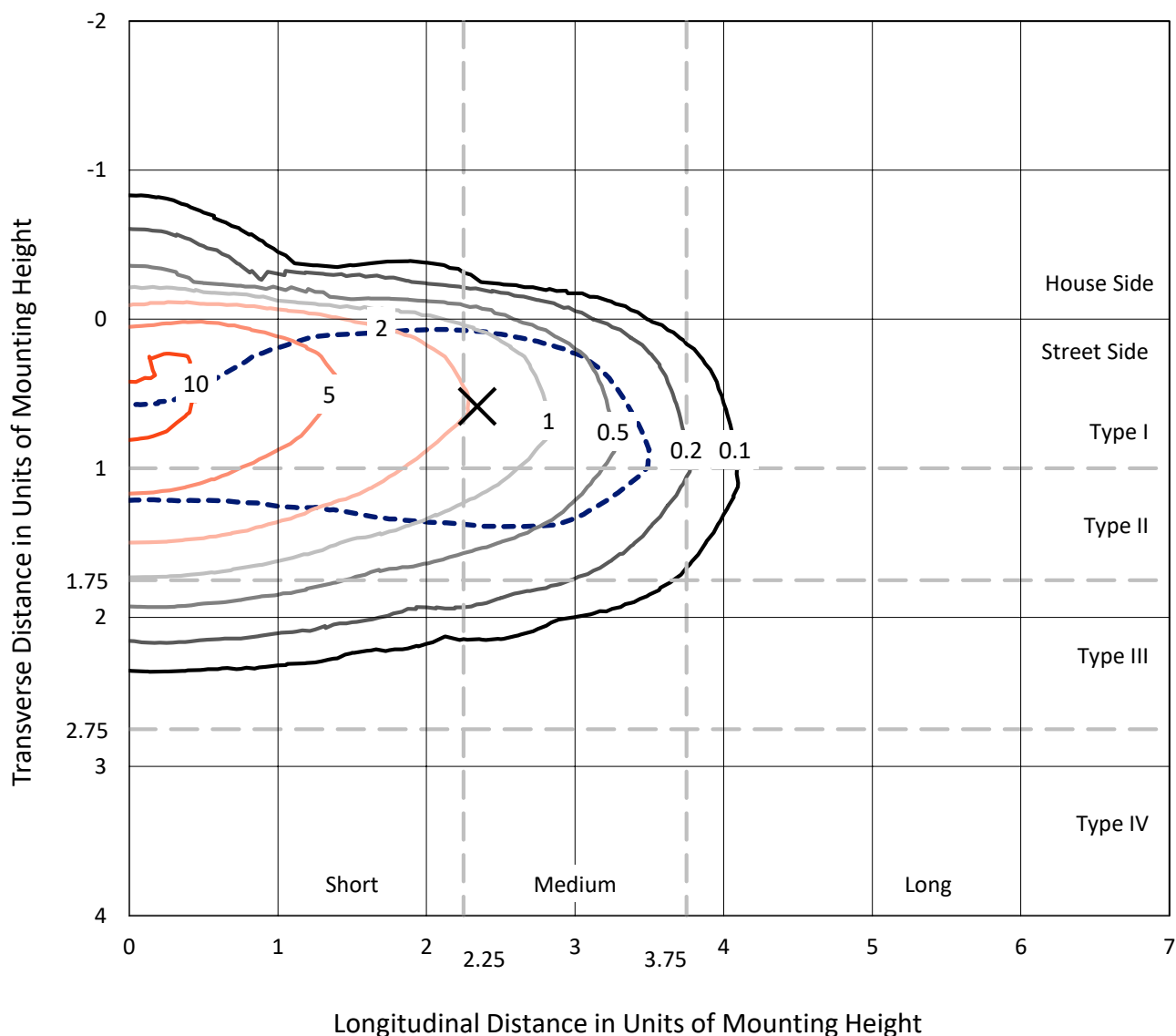
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

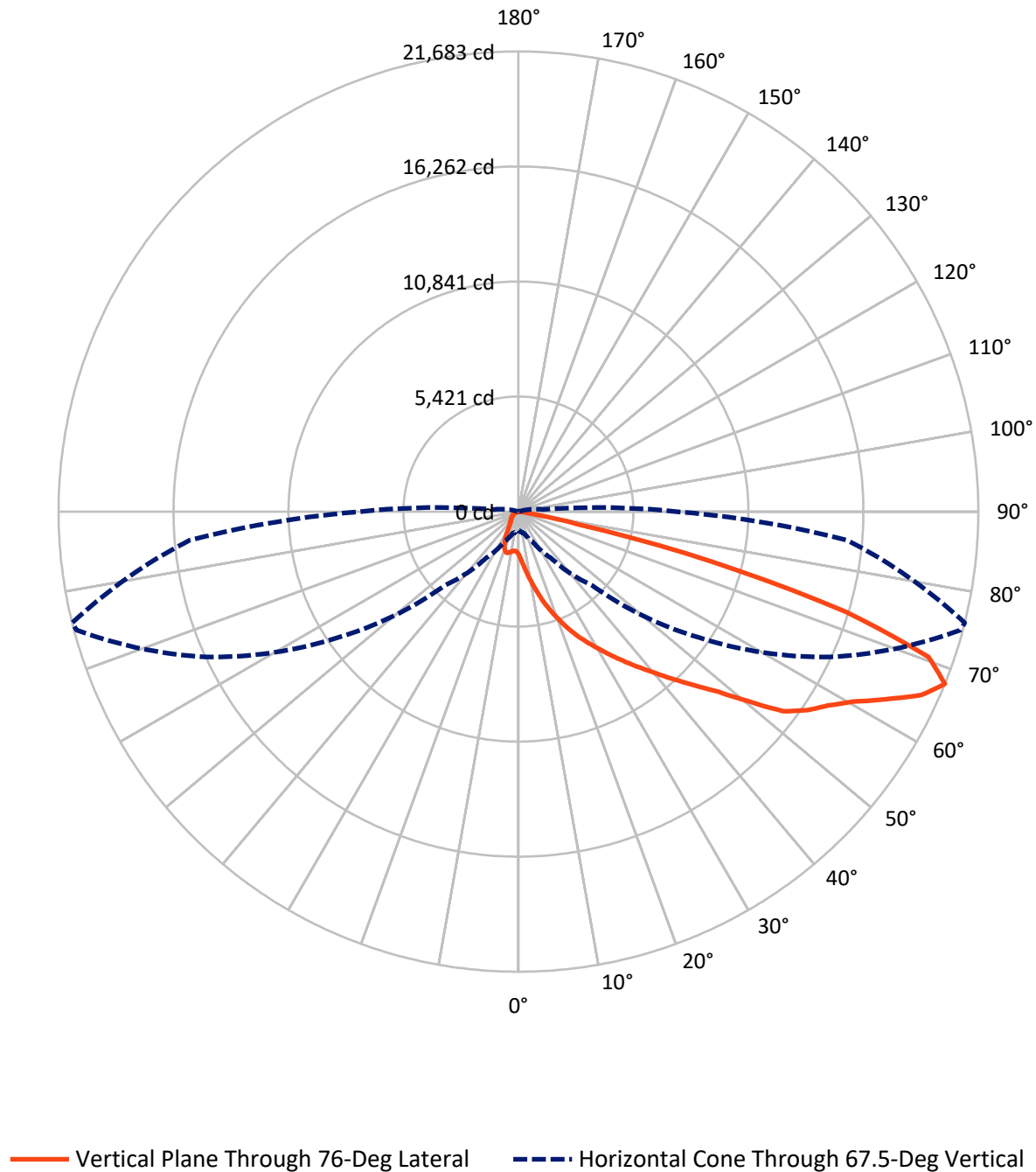
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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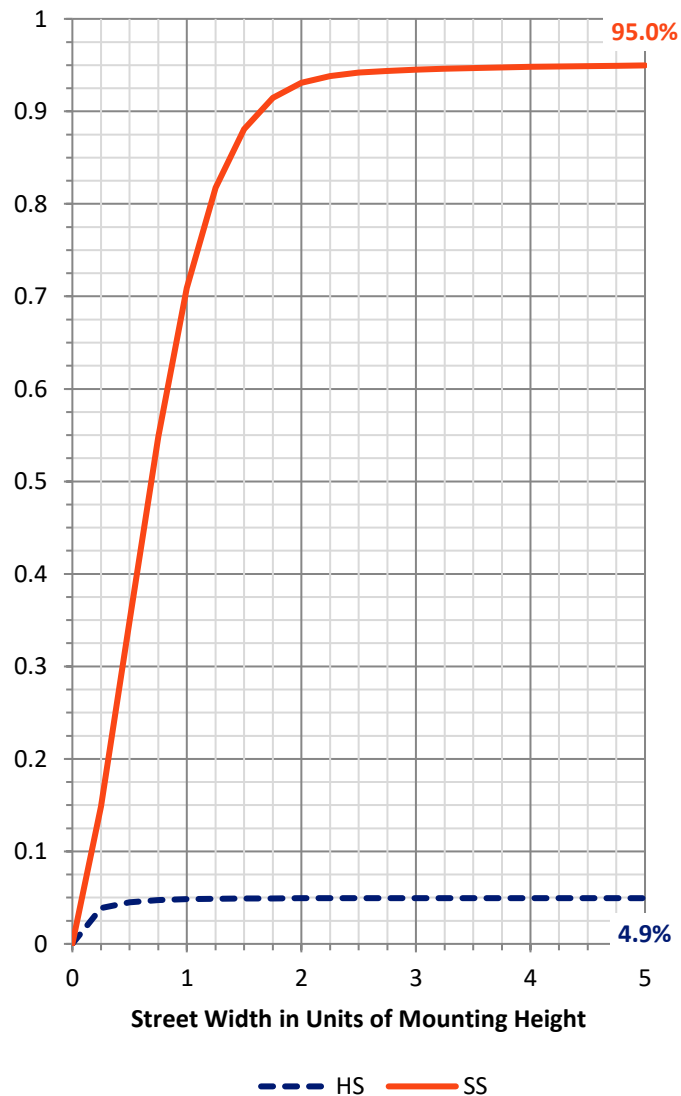
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1185.0	0.0	1185.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	22678.0	0.0	22678.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	23863.0	0.0	23863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.7	1.1
10°-20°	997.8	4.2
20°-30°	2030.3	8.5
30°-40°	3523.9	14.8
40°-50°	4978.8	20.9
50°-60°	5646.2	23.7
60°-70°	4683.0	19.6
70°-80°	1696.3	7.1
80°-90°	55.0	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°	23863.0	100.0
0°-180°	23863.0	100.0

Coefficient of Utilization



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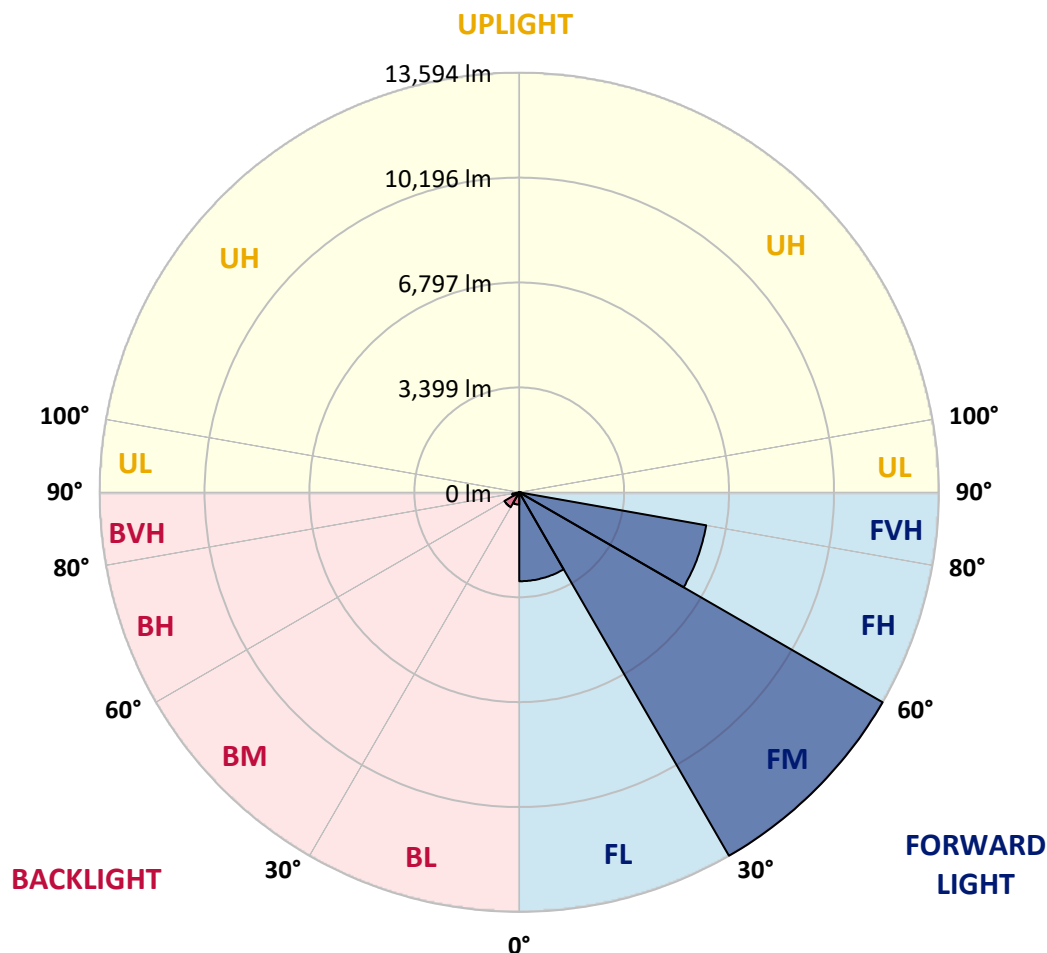
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2880.2	12.1			
FM	(30°-60°)	13594.3	57.0			
FH	(60°-80°)	6150.3	25.8			G3/7500
FVH	(80°-90°)	53.3	0.2			G1/100
BL	(0°-30°)	399.6	1.7	B1/500		
BM	(30°-60°)	554.6	2.3	B1/1000		
BH	(60°-80°)	229.0	1.0	B1/500		G1/500
BVH	(80°-90°)	1.7	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-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3
2.5°	3021.8	2953.8	2969.5	2925.6	2846.1	2683.0	2543.9	2412.2	2258.5	2253.3	2126.7
5°	4074.7	4017.2	4009.9	3921.0	3776.7	3499.6	3229.8	2922.4	2579.5	2554.4	2285.7
7.5°	5030.4	4984.4	4967.6	4862.0	4593.3	4323.5	3972.2	3520.5	2984.1	2938.1	2500.0
10°	5764.4	5742.4	5746.6	5671.3	5441.3	5190.3	4729.2	4153.1	3443.1	3372.0	2757.2
12.5°	6320.6	6325.9	6363.5	6317.5	6188.9	6002.8	5510.3	4827.5	3951.3	3854.1	3051.0
15°	6729.5	6755.6	6824.6	6882.1	6872.7	6711.7	6260.0	5512.4	4490.8	4383.1	3378.3
17.5°	6994.0	7023.3	7123.6	7251.2	7368.3	7330.7	6983.5	6173.2	5036.6	4912.2	3728.6
20°	7226.1	7260.6	7368.3	7536.7	7755.2	7802.2	7574.3	6814.1	5581.4	5429.8	4090.4
22.5°	7729.0	7728.0	7793.9	7892.2	8100.2	8221.5	8077.2	7409.1	6119.9	5962.0	4459.5
25°	8638.7	8604.2	8581.2	8503.8	8549.8	8625.1	8544.6	7965.3	6661.5	6501.5	4833.8
27.5°	9719.9	9740.8	9554.7	9346.6	9185.6	9108.2	8976.4	8480.8	7182.2	7006.5	5199.7
30°	10860.6	10866.9	10647.3	10381.7	10027.3	9733.5	9505.5	8973.3	7717.5	7526.2	5555.3
32.5°	11889.5	11848.7	11631.2	11269.4	10821.9	10491.5	10017.9	9523.3	8284.3	8099.2	5950.5
35°	12705.0	12656.9	12392.4	12063.0	11598.8	11266.3	10696.4	10072.2	8880.2	8699.4	6346.8
37.5°	13301.0	13244.6	12972.7	12633.9	12233.5	12040.0	11483.8	10669.3	9530.6	9336.1	6764.0
40°	13508.1	13458.9	13288.5	13040.7	12718.6	12674.7	12319.2	11356.2	10238.5	10031.4	7236.6
42.5°	13384.7	13336.6	13275.9	13192.3	13058.4	13100.3	13107.6	12139.4	11024.8	10820.9	7758.3
45°	12895.3	12852.5	12915.2	13037.5	13203.8	13410.8	13827.0	12981.1	11903.1	11685.6	8361.6
47.5°	12174.9	12143.5	12317.1	12622.4	13108.6	13679.5	14484.6	13865.6	12889.1	12687.3	9114.5
50°	11150.2	11145.0	11492.1	12049.4	12797.0	13809.2	15164.3	14871.5	14258.8	14046.5	10161.1
52.5°	9554.7	9565.1	10247.9	11139.8	12250.2	13721.4	15601.3	16163.9	15852.3	15631.7	11067.6
55°	8035.4	8098.1	8582.3	9868.3	11411.6	13395.1	15751.9	16767.2	16731.6	16522.5	11571.6
57.5°	6547.5	6661.5	7127.8	8329.2	10187.2	12643.3	15669.3	17028.6	17386.2	17226.2	12236.6
60°	4935.2	4987.5	5524.9	6647.9	8615.7	11271.5	15070.2	17170.8	18281.2	18170.4	13201.7
62.5°	3139.9	3270.6	3747.4	4830.7	6708.5	9366.4	14060.1	17168.7	19401.0	19461.7	14447.0
65°	1654.1	1806.8	2059.8	2993.5	4610.0	7238.7	12540.9	17007.7	20774.9	20859.6	15420.4
67.5°	891.9	935.8	1069.6	1553.8	2673.6	4903.8	10308.5	16213.0	21570.6	21682.5	15556.4
70°	652.5	676.5	726.7	859.5	1345.7	2848.2	7522.0	14411.4	20544.9	20503.1	13821.7
72.5°	500.8	538.5	576.1	629.4	773.7	1520.3	4683.2	11285.1	16392.9	16116.8	10331.5
75°	395.2	401.5	454.8	502.9	580.3	865.8	2079.7	6572.6	10005.3	9351.8	5357.6
77.5°	315.8	320.0	351.3	393.1	466.3	568.8	644.1	2585.8	3194.3	2850.3	1162.7
80°	187.2	197.6	261.4	303.2	386.9	358.6	235.3	561.5	498.7	451.7	195.5
82.5°	104.6	112.9	147.4	239.4	269.8	171.5	117.1	151.6	117.1	114.0	55.4
85°	0.0	5.2	95.1	148.5	109.8	37.6	49.1	50.2	34.5	32.4	22.0
87.5°	0.0	0.0	29.3	28.2	4.2	6.3	11.5	16.7	13.6	13.6	11.5
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°	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3	2024.3
2.5°	2064.0	2007.5	1900.9	1796.3	1708.5	1636.4	1571.5	1545.4	1524.5	1521.3	1504.6
5°	2156.0	2042.0	1838.2	1670.9	1559.0	1479.5	1411.6	1369.7	1337.3	1324.8	1313.3
7.5°	2295.1	2122.6	1829.8	1637.4	1503.6	1369.7	1244.3	1108.3	1023.6	991.2	972.4
10°	2464.5	2229.2	1861.2	1628.0	1393.8	1111.5	903.4	730.9	660.8	637.8	631.5
12.5°	2662.1	2362.0	1915.5	1569.4	1159.6	789.4	623.2	564.6	548.9	541.6	541.6
15°	2889.0	2507.3	1954.2	1400.1	857.4	597.0	539.5	512.3	495.6	486.2	487.2
17.5°	3121.1	2649.5	1935.4	1154.3	632.6	531.2	488.3	459.0	436.0	426.6	424.5
20°	3355.3	2781.3	1830.8	859.5	535.3	482.0	433.9	401.5	378.5	369.1	367.0
22.5°	3597.9	2893.2	1646.8	630.5	481.0	427.6	380.6	348.2	326.2	317.9	313.7
25°	3834.2	2984.1	1389.6	510.3	429.7	376.4	331.5	301.1	281.3	272.9	271.9
27.5°	4054.8	3041.6	1091.6	450.7	384.8	330.4	289.6	262.4	245.7	239.4	238.4
30°	4253.5	3046.9	807.2	406.7	345.0	290.7	253.0	229.0	214.3	208.1	206.0
32.5°	4454.2	3003.0	587.6	367.0	308.5	256.2	219.6	200.8	190.3	185.1	185.1
35°	4643.5	2901.5	458.0	332.5	272.9	222.7	193.4	179.8	173.6	168.3	168.3
37.5°	4828.6	2756.2	389.0	302.2	239.4	194.5	170.4	162.1	156.8	151.6	151.6
40°	5016.8	2573.2	353.4	273.9	212.3	172.5	151.6	144.3	139.1	134.9	133.8
42.5°	5247.8	2362.0	330.4	247.8	188.2	152.7	133.8	125.5	121.3	117.1	115.0
45°	5515.5	2180.1	311.6	221.7	168.3	135.9	116.1	107.7	101.4	96.2	95.1
47.5°	5901.3	2048.3	286.5	193.4	149.5	118.2	100.4	91.0	81.6	76.3	75.3
50°	6393.8	1939.6	254.1	168.3	130.7	100.4	83.6	72.1	63.8	58.6	58.6
52.5°	6638.5	1797.4	224.8	146.4	109.8	84.7	68.0	54.4	50.2	45.0	45.0
55°	6736.8	1688.6	195.5	124.4	91.0	70.1	53.3	41.8	38.7	35.6	34.5
57.5°	7012.8	1657.3	170.4	105.6	75.3	55.4	40.8	31.4	29.3	25.1	25.1
60°	7457.2	1673.0	147.4	89.9	60.6	42.9	30.3	24.0	22.0	17.8	17.8
62.5°	7937.1	1653.1	124.4	77.4	47.1	31.4	20.9	17.8	17.8	10.5	9.4
65°	8029.1	1472.2	106.7	63.8	36.6	23.0	13.6	11.5	15.7	2.1	0.0
67.5°	7452.0	1141.8	92.0	49.1	27.2	17.8	10.5	5.2	13.6	0.0	0.0
70°	5958.9	725.6	74.2	35.6	20.9	14.6	8.4	2.1	10.5	0.0	0.0
72.5°	4213.8	421.4	58.6	25.1	17.8	11.5	6.3	0.0	6.3	0.0	0.0
75°	2130.9	224.8	36.6	18.8	13.6	8.4	4.2	0.0	1.0	0.0	0.0
77.5°	461.1	104.6	23.0	13.6	9.4	5.2	2.1	0.0	0.0	0.0	0.0
80°	100.4	46.0	14.6	8.4	5.2	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	36.6	24.0	7.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.9	12.5	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.5	4.2	1.0	1.0	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)