

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: P321399

Luminaire Tested: **GAN-SA5B-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321399
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-SA5B-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 800mA 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: 16947 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

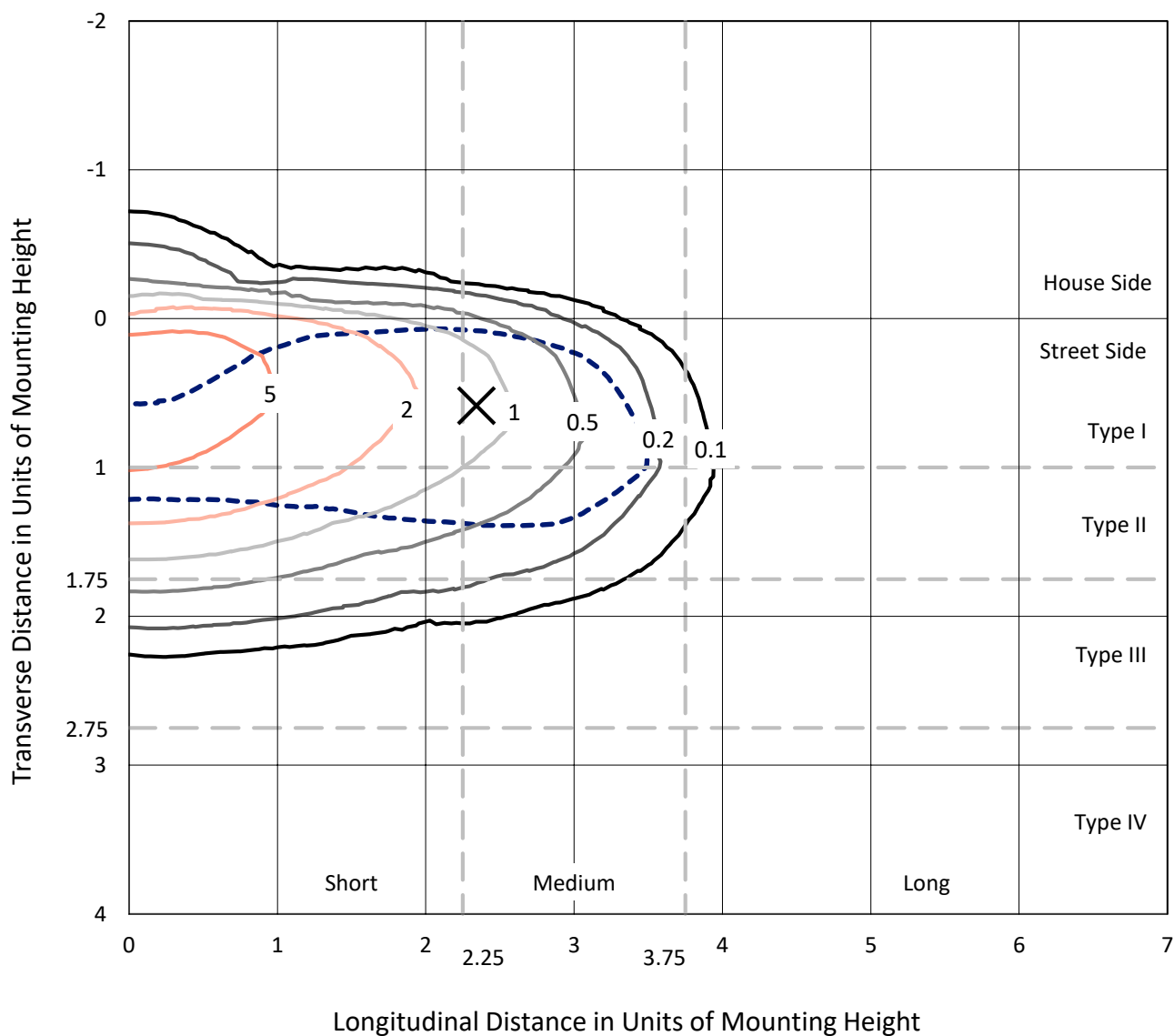
Input Watts (W): 210
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

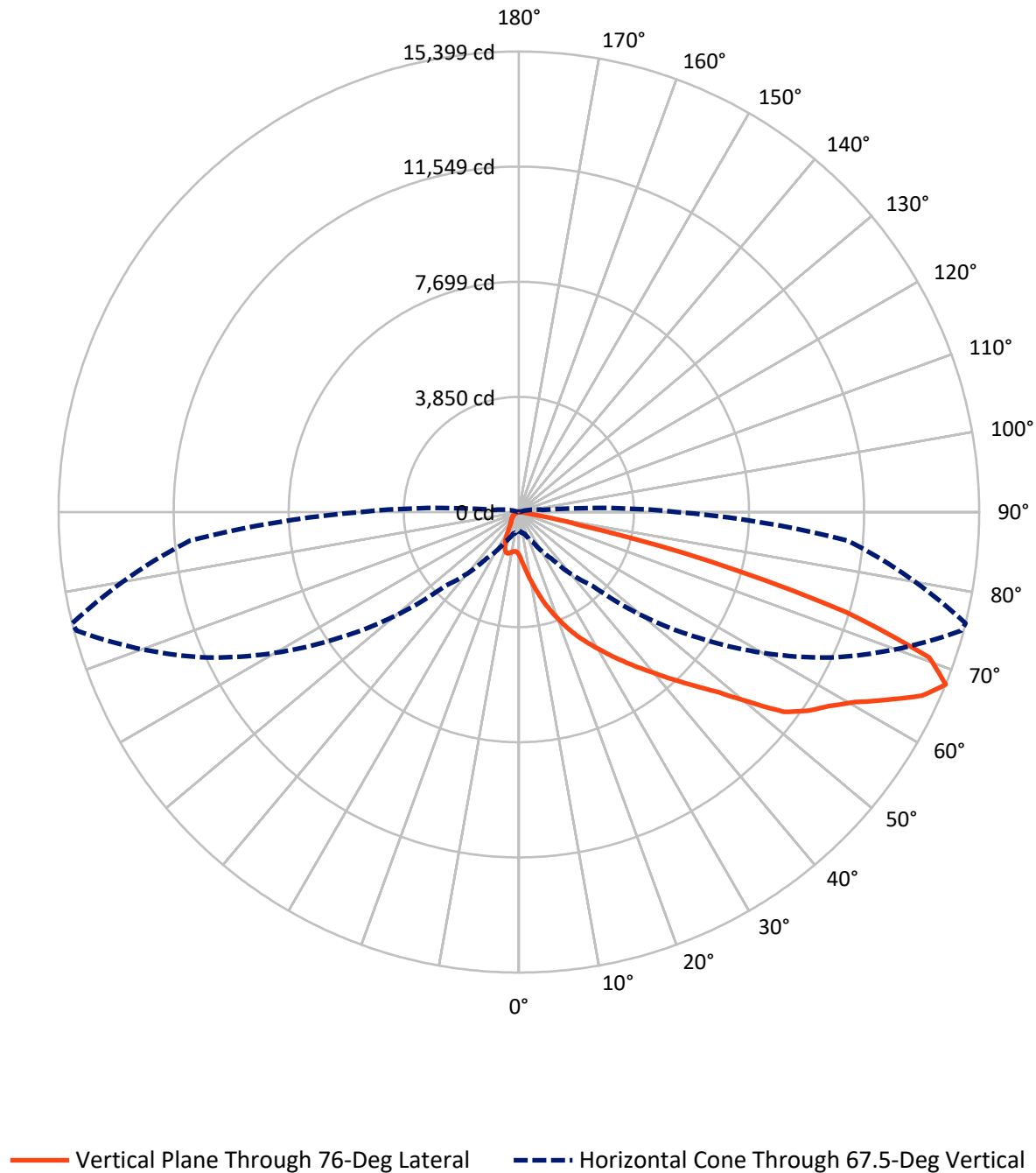
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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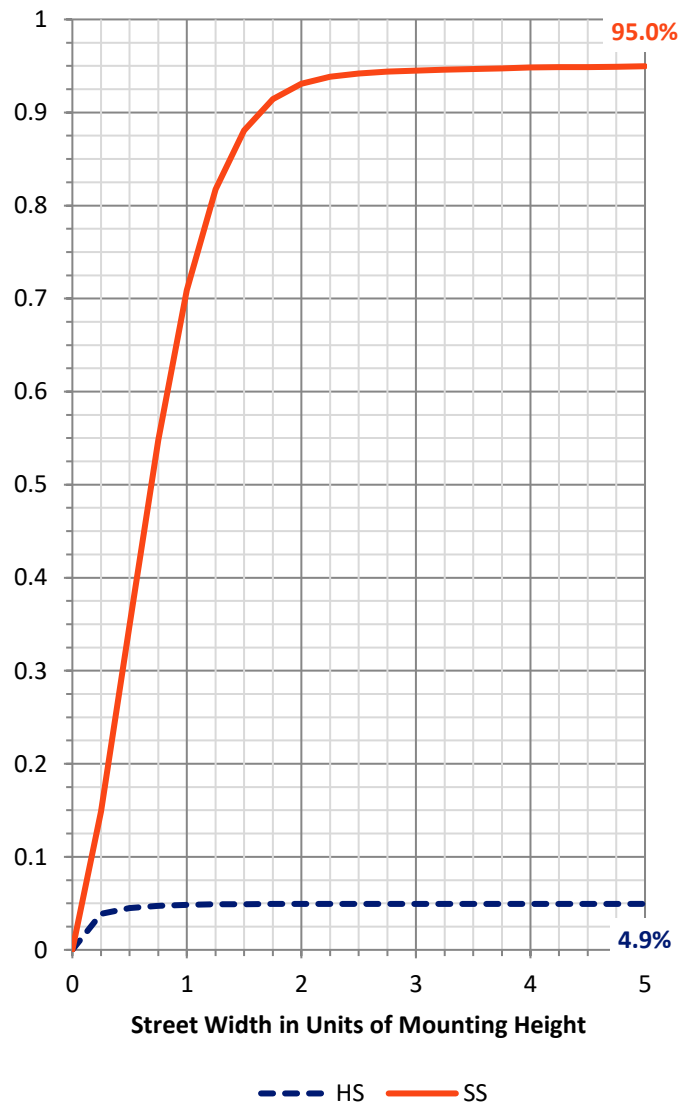
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	841.5	0.0	841.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	16105.5	0.0	16105.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	16947.0	0.0	16947.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.8	1.1
10°-20°	708.6	4.2
20°-30°	1441.9	8.5
30°-40°	2502.6	14.8
40°-50°	3535.8	20.9
50°-60°	4009.8	23.7
60°-70°	3325.8	19.6
70°-80°	1204.7	7.1
80°-90°	39.1	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°	16947.0	100.0
0°-180°	16947.0	100.0

Coefficient of Utilization



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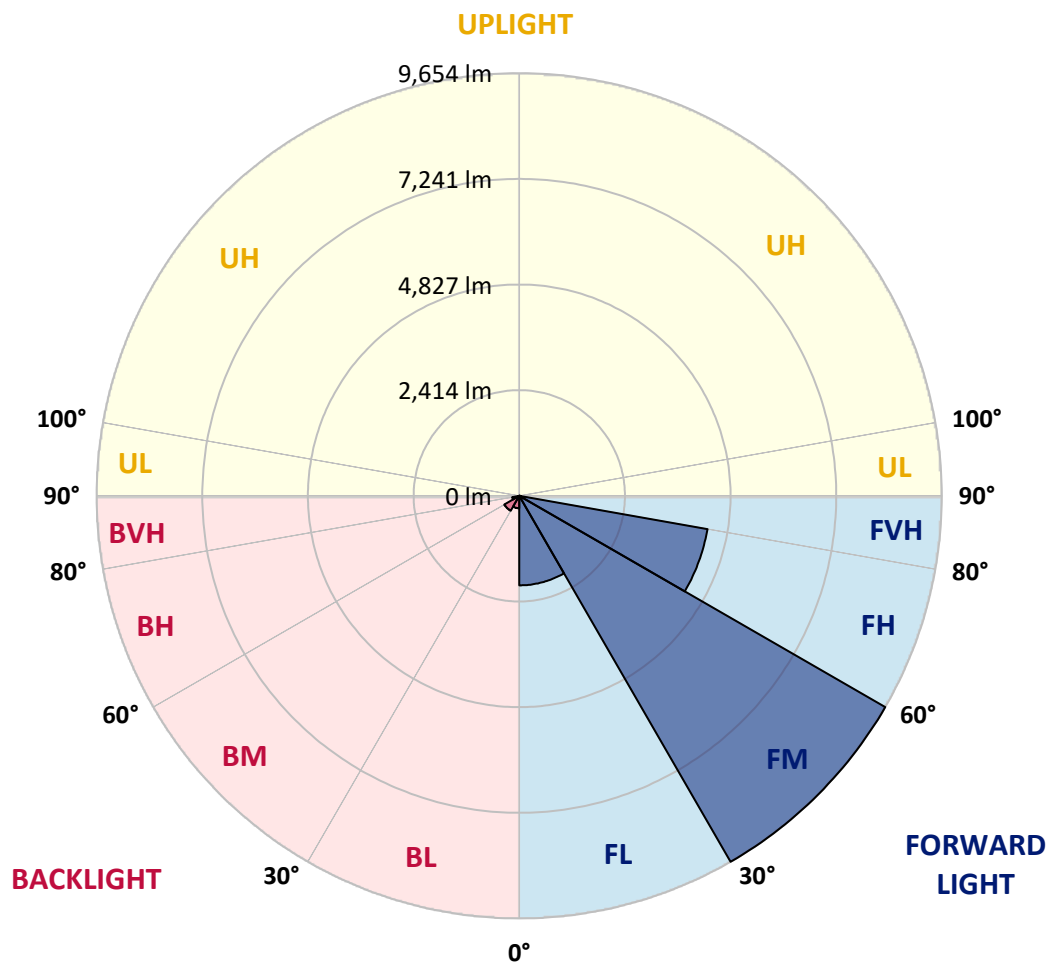
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2045.4	12.1			
FM	(30°-60°)	9654.4	57.0			
FH	(60°-80°)	4367.8	25.8			G2/5000
FVH	(80°-90°)	37.8	0.2			G1/100
BL	(0°-30°)	283.8	1.7	B1/500		
BM	(30°-60°)	393.9	2.3	B1/1000		
BH	(60°-80°)	162.6	1.0	B1/500		G1/500
BVH	(80°-90°)	1.2	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°	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6
2.5°	2146.0	2097.7	2108.9	2077.7	2021.2	1905.4	1806.6	1713.1	1603.9	1600.2	1510.4
5°	2893.8	2852.9	2847.7	2784.6	2682.1	2485.3	2293.8	2075.5	1831.9	1814.1	1623.2
7.5°	3572.5	3539.8	3527.9	3452.9	3262.1	3070.5	2821.0	2500.2	2119.3	2086.6	1775.5
10°	4093.7	4078.1	4081.1	4027.6	3864.3	3686.1	3358.6	2949.4	2445.3	2394.8	1958.1
12.5°	4488.8	4492.5	4519.2	4486.5	4395.2	4263.0	3913.3	3428.4	2806.1	2737.1	2166.8
15°	4779.1	4797.7	4846.7	4887.5	4880.8	4766.5	4445.7	3914.8	3189.3	3112.8	2399.2
17.5°	4967.0	4987.8	5059.1	5149.7	5232.8	5206.1	4959.6	4384.1	3576.9	3488.5	2648.0
20°	5131.8	5156.3	5232.8	5352.4	5507.6	5541.0	5379.1	4839.3	3963.8	3856.1	2904.9
22.5°	5489.0	5488.3	5535.0	5604.8	5752.6	5838.8	5736.3	5261.8	4346.2	4234.1	3167.0
25°	6135.0	6110.5	6094.2	6039.2	6071.9	6125.4	6068.2	5656.8	4730.9	4617.2	3432.9
27.5°	6902.8	6917.7	6785.5	6637.7	6523.4	6468.4	6374.9	6022.9	5100.6	4975.9	3692.8
30°	7713.0	7717.4	7561.5	7372.9	7121.2	6912.5	6750.6	6372.7	5480.8	5344.9	3945.2
32.5°	8443.7	8414.7	8260.2	8003.3	7685.5	7450.8	7114.5	6763.2	5883.3	5751.9	4225.9
35°	9022.8	8988.7	8800.8	8566.9	8237.2	8001.1	7596.4	7153.1	6306.6	6178.1	4507.3
37.5°	9446.1	9406.0	9212.9	8972.4	8688.0	8550.6	8155.5	7577.1	6768.4	6630.3	4803.6
40°	9593.1	9558.2	9437.2	9261.2	9032.5	9001.3	8748.8	8064.9	7271.1	7124.1	5139.3
42.5°	9505.5	9471.4	9428.3	9368.9	9273.8	9303.5	9308.7	8621.1	7829.6	7684.8	5509.8
45°	9158.0	9127.5	9172.1	9259.0	9377.0	9524.1	9819.6	9218.9	8453.3	8298.9	5938.3
47.5°	8646.4	8624.1	8747.4	8964.2	9309.5	9714.9	10286.7	9847.1	9153.5	9010.2	6472.9
50°	7918.7	7914.9	8161.5	8557.3	9088.2	9807.0	10769.3	10561.4	10126.3	9975.6	7216.2
52.5°	6785.5	6792.9	7277.8	7911.2	8699.8	9744.6	11079.7	11479.2	11258.0	11101.3	7860.0
55°	5706.6	5751.1	6094.9	7008.3	8104.3	9512.9	11186.7	11907.7	11882.4	11733.9	8217.9
57.5°	4649.9	4730.9	5062.0	5915.2	7234.8	8979.0	11128.0	12093.3	12347.3	12233.7	8690.2
60°	3504.9	3542.0	3923.7	4721.2	6118.7	8004.8	10702.5	12194.3	12982.9	12904.2	9375.6
62.5°	2229.9	2322.7	2661.3	3430.6	4764.3	6651.9	9985.2	12192.8	13778.2	13821.3	10260.0
65°	1174.7	1283.1	1462.8	2125.9	3273.9	5140.7	8906.3	12078.5	14753.9	14814.1	10951.3
67.5°	633.4	664.6	759.6	1103.4	1898.7	3482.6	7320.9	11514.1	15319.0	15398.5	11047.8
70°	463.4	480.4	516.1	610.4	955.7	2022.7	5342.0	10234.7	14590.6	14560.9	9815.9
72.5°	355.7	382.4	409.2	447.0	549.5	1079.7	3325.9	8014.5	11641.9	11445.8	7337.2
75°	280.7	285.1	323.0	357.2	412.1	614.8	1477.0	4667.7	7105.6	6641.5	3804.9
77.5°	224.3	227.2	249.5	279.2	331.2	404.0	457.4	1836.4	2268.5	2024.2	825.7
80°	132.9	140.3	185.6	215.3	274.7	254.7	167.1	398.8	354.2	320.8	138.9
82.5°	74.3	80.2	104.7	170.0	191.6	121.8	83.2	107.7	83.2	80.9	39.4
85°	0.0	3.7	67.6	105.4	78.0	26.7	34.9	35.6	24.5	23.0	15.6
87.5°	0.0	0.0	20.8	20.0	3.0	4.5	8.2	11.9	9.7	9.7	8.2
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°	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6	1437.6
2.5°	1465.8	1425.7	1350.0	1275.7	1213.3	1162.1	1116.1	1097.5	1082.7	1080.4	1068.5
5°	1531.2	1450.2	1305.4	1186.6	1107.2	1050.7	1002.5	972.8	949.7	940.8	932.7
7.5°	1629.9	1507.4	1299.5	1162.8	1067.8	972.8	883.6	787.1	727.0	703.9	690.6
10°	1750.2	1583.1	1321.8	1156.2	989.8	789.3	641.6	519.0	469.3	453.0	448.5
12.5°	1890.6	1677.4	1360.4	1114.6	823.5	560.6	442.6	401.0	389.8	384.6	384.6
15°	2051.7	1780.7	1387.8	994.3	608.9	424.0	383.2	363.9	352.0	345.3	346.0
17.5°	2216.5	1881.6	1374.5	819.8	449.2	377.2	346.8	326.0	309.6	303.0	301.5
20°	2382.9	1975.2	1300.2	610.4	380.2	342.3	308.2	285.1	268.8	262.1	260.6
22.5°	2555.1	2054.7	1169.5	447.8	341.6	303.7	270.3	247.3	231.7	225.7	222.8
25°	2723.0	2119.3	986.9	362.4	305.2	267.3	235.4	213.9	199.7	193.8	193.1
27.5°	2879.6	2160.1	775.2	320.0	273.3	234.6	205.7	186.4	174.5	170.0	169.3
30°	3020.7	2163.8	573.3	288.9	245.0	206.4	179.7	162.6	152.2	147.8	146.3
32.5°	3163.3	2132.6	417.3	260.6	219.1	181.9	155.9	142.6	135.1	131.4	131.4
35°	3297.7	2060.6	325.2	236.1	193.8	158.2	137.4	127.7	123.3	119.6	119.6
37.5°	3429.1	1957.4	276.2	214.6	170.0	138.1	121.0	115.1	111.4	107.7	107.7
40°	3562.8	1827.4	251.0	194.6	150.7	122.5	107.7	102.5	98.8	95.8	95.0
42.5°	3726.9	1677.4	234.6	176.0	133.7	108.4	95.0	89.1	86.1	83.2	81.7
45°	3917.0	1548.2	221.3	157.4	119.6	96.5	82.4	76.5	72.0	68.3	67.6
47.5°	4191.0	1454.7	203.5	137.4	106.2	83.9	71.3	64.6	57.9	54.2	53.5
50°	4540.8	1377.4	180.4	119.6	92.8	71.3	59.4	51.2	45.3	41.6	41.6
52.5°	4714.5	1276.5	159.7	104.0	78.0	60.1	48.3	38.6	35.6	31.9	31.9
55°	4784.3	1199.2	138.9	88.4	64.6	49.8	37.9	29.7	27.5	25.2	24.5
57.5°	4980.4	1177.0	121.0	75.0	53.5	39.4	29.0	22.3	20.8	17.8	17.8
60°	5295.9	1188.1	104.7	63.9	43.1	30.4	21.5	17.1	15.6	12.6	12.6
62.5°	5636.8	1174.0	88.4	54.9	33.4	22.3	14.9	12.6	12.6	7.4	6.7
65°	5702.1	1045.5	75.7	45.3	26.0	16.3	9.7	8.2	11.1	1.5	0.0
67.5°	5292.2	810.9	65.3	34.9	19.3	12.6	7.4	3.7	9.7	0.0	0.0
70°	4231.9	515.3	52.7	25.2	14.9	10.4	5.9	1.5	7.4	0.0	0.0
72.5°	2992.5	299.3	41.6	17.8	12.6	8.2	4.5	0.0	4.5	0.0	0.0
75°	1513.3	159.7	26.0	13.4	9.7	5.9	3.0	0.0	0.7	0.0	0.0
77.5°	327.5	74.3	16.3	9.7	6.7	3.7	1.5	0.0	0.0	0.0	0.0
80°	71.3	32.7	10.4	5.9	3.7	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	26.0	17.1	5.2	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.1	8.9	3.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.4	3.0	0.7	0.7	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)