

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: P322028

Luminaire Tested: **GAN-SA4A-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322028
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9831 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

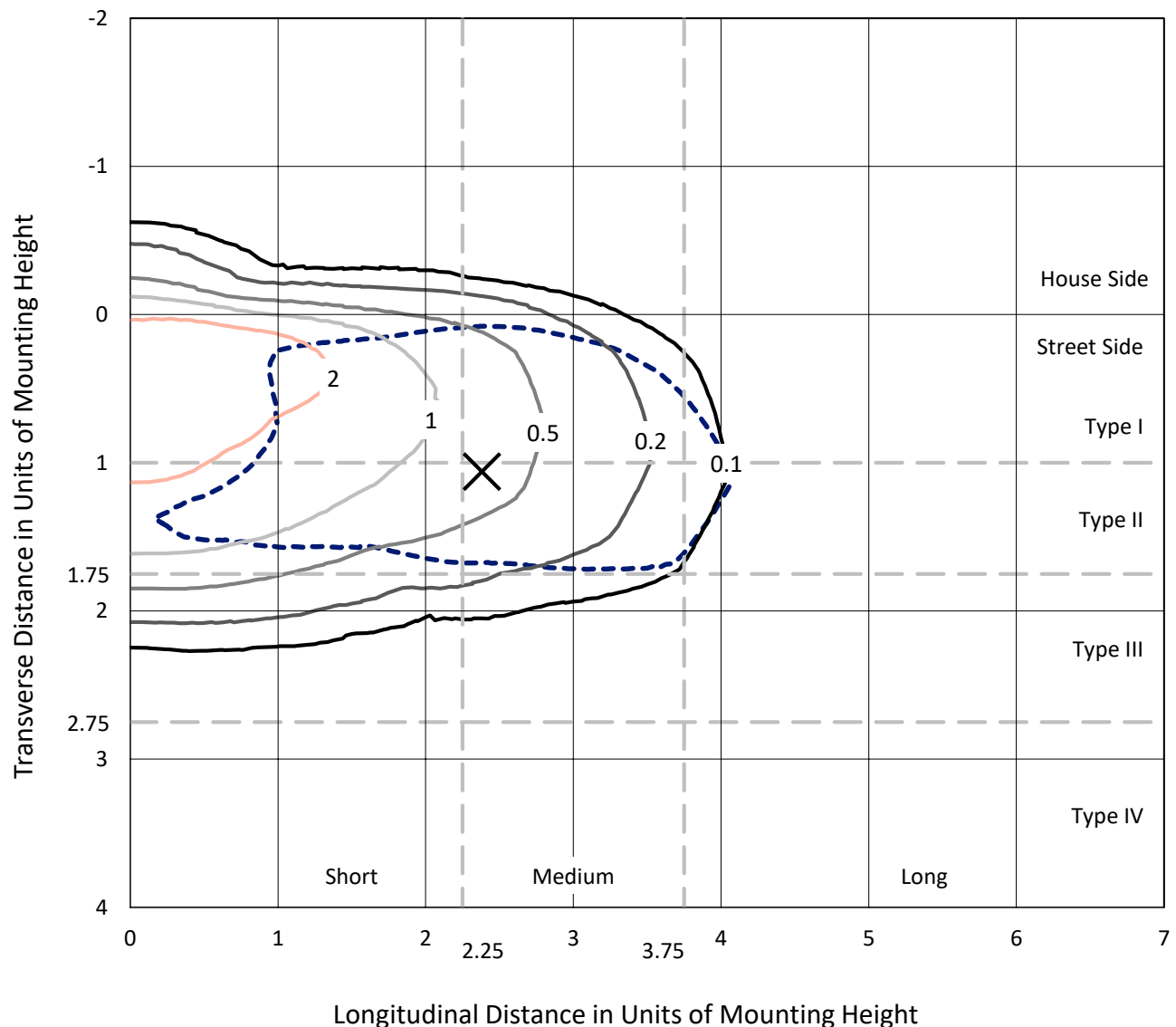
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

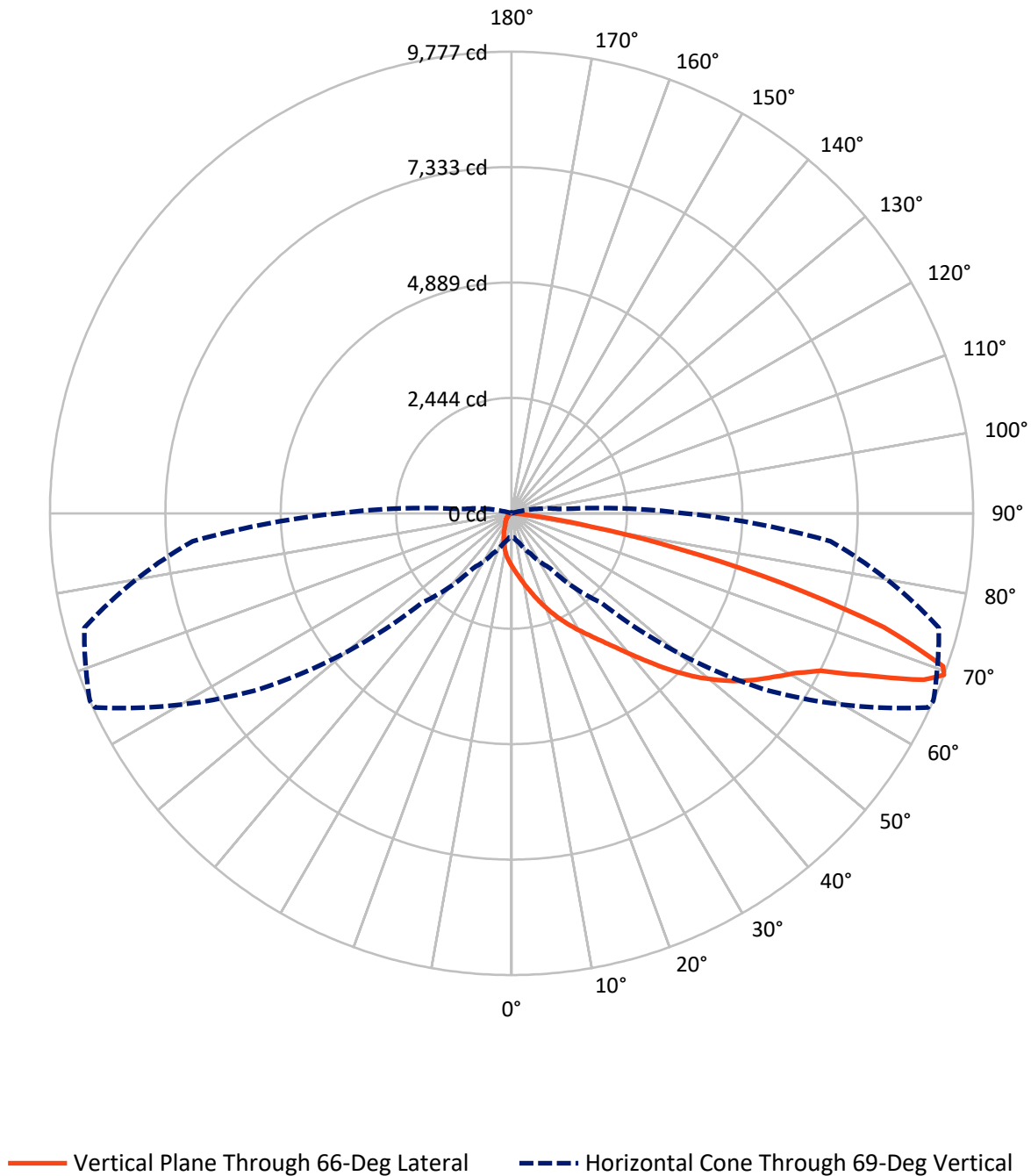
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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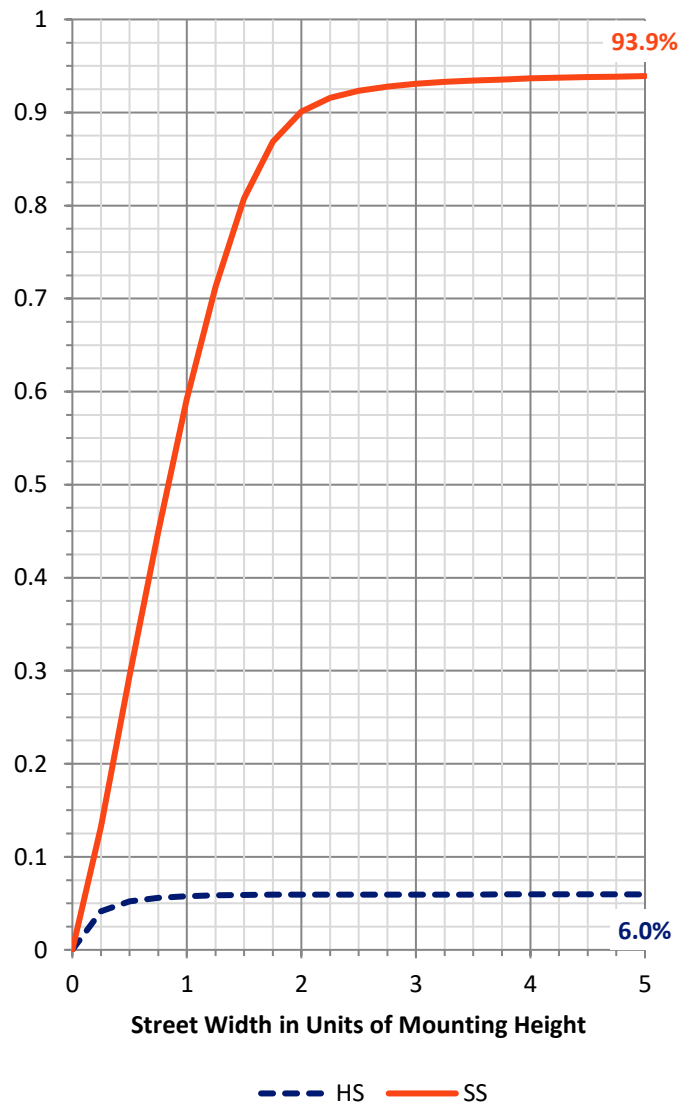
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	589.7	0.0	589.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	9241.3	0.0	9241.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	9831.0	0.0	9831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.1	1.1
10°-20°	321.9	3.3
20°-30°	560.5	5.7
30°-40°	983.4	10.0
40°-50°	1646.0	16.7
50°-60°	2419.5	24.6
60°-70°	2484.2	25.3
70°-80°	1226.4	12.5
80°-90°	81.1	0.8
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°	9831.0	100.0
0°-180°	9831.0	100.0

Coefficient of Utilization



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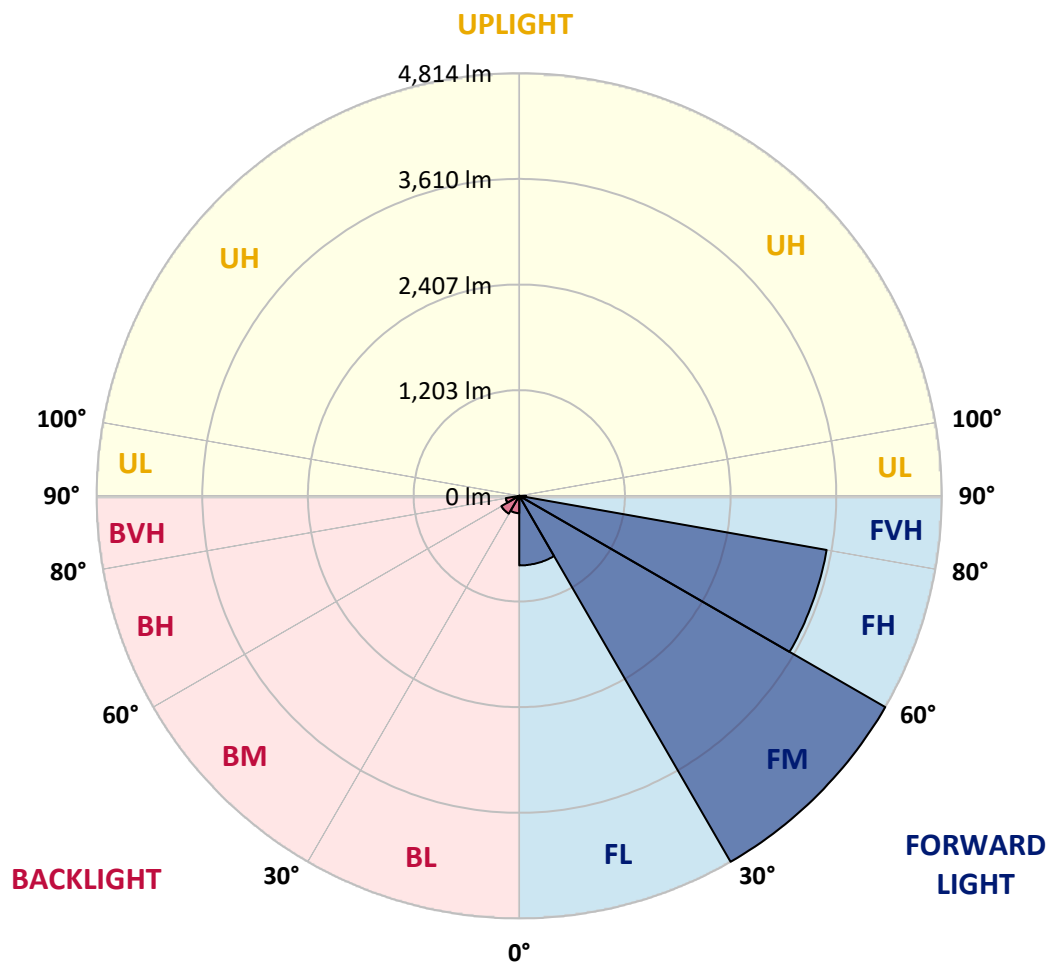
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	793.3	8.1			
FM	(30°-60°)	4813.7	49.0			
FH	(60°-80°)	3555.2	36.2			G2/5000
FVH	(80°-90°)	79.1	0.8			G1/100
BL	(0°-30°)	197.2	2.0	B1/500		
BM	(30°-60°)	235.1	2.4	B1/1000		
BH	(60°-80°)	155.4	1.6	B1/500		G1/500
BVH	(80°-90°)	2.0	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°	66°	75°	85°
0°	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8
2.5°	1316.8	1311.2	1308.8	1298.6	1280.8	1267.3	1241.1	1210.8	1205.2	1175.8	1139.8
5°	1487.7	1483.0	1479.7	1465.3	1447.1	1413.0	1365.3	1308.8	1298.1	1242.1	1170.2
7.5°	1606.8	1615.2	1615.2	1605.8	1582.9	1557.3	1498.9	1421.8	1408.3	1322.4	1210.8
10°	1676.3	1686.6	1694.5	1702.5	1699.2	1688.9	1633.8	1547.0	1530.6	1416.7	1257.9
12.5°	1682.9	1693.1	1715.6	1748.7	1780.9	1804.3	1769.7	1685.7	1667.0	1526.0	1314.0
15°	1646.4	1657.2	1691.7	1756.2	1834.2	1902.3	1913.5	1839.3	1820.2	1656.3	1384.0
17.5°	1582.9	1589.9	1639.4	1728.6	1851.0	1976.1	2043.8	2004.1	1986.4	1805.2	1462.0
20°	1535.8	1540.9	1584.3	1680.1	1840.7	2022.3	2167.1	2179.2	2160.6	1964.9	1546.5
22.5°	1616.6	1625.9	1627.3	1672.6	1812.7	2045.2	2275.4	2351.5	2337.5	2134.4	1629.6
25°	1837.4	1848.2	1812.7	1784.7	1836.5	2055.5	2368.3	2528.0	2516.8	2317.0	1713.2
27.5°	2129.3	2140.5	2094.7	2011.1	1961.2	2094.2	2451.0	2707.3	2706.9	2510.3	1803.3
30°	2416.0	2427.2	2380.5	2296.9	2182.0	2204.0	2522.4	2895.1	2897.9	2709.7	1899.1
32.5°	2716.7	2730.7	2682.6	2575.2	2455.2	2393.6	2622.8	3083.7	3099.6	2940.8	2006.9
35°	3058.5	3060.4	2992.6	2880.1	2741.9	2647.1	2783.9	3295.2	3333.1	3227.1	2143.7
37.5°	3393.8	3407.3	3351.7	3174.3	3047.3	2939.9	3023.5	3559.5	3613.2	3576.8	2322.6
40°	3642.2	3670.7	3662.7	3471.3	3350.8	3274.2	3320.9	3873.8	3941.9	3984.0	2548.1
42.5°	3798.1	3819.6	3856.0	3740.7	3631.4	3644.0	3672.1	4239.9	4323.9	4448.1	2807.3
45°	3977.0	3987.2	4017.6	3966.7	3892.9	4019.9	4044.7	4652.2	4740.4	4947.3	3094.9
47.5°	4195.5	4219.8	4228.2	4181.5	4147.9	4352.4	4403.8	5027.1	5150.9	5481.9	3399.4
50°	4473.8	4480.3	4494.8	4464.5	4430.8	4638.2	4725.9	5420.8	5533.3	6018.4	3699.6
52.5°	4746.0	4769.4	4819.8	4800.7	4787.1	4881.4	5013.1	5775.6	5901.2	6465.8	3999.4
55°	4824.5	4844.6	5018.7	5137.8	5248.0	5181.2	5287.7	6093.6	6229.5	6865.5	4288.0
57.5°	4511.2	4551.8	4853.4	5163.5	5620.6	5647.2	5665.0	6420.0	6541.9	7171.8	4588.2
60°	3719.2	3727.2	4222.1	4754.0	5559.0	6053.9	6216.0	6770.7	6873.0	7457.1	4947.7
62.5°	2365.5	2446.3	2989.4	3740.2	4907.1	5995.1	6882.3	7301.1	7338.5	7799.4	5463.3
65°	1126.7	1179.0	1570.3	2310.9	3554.4	5241.9	7342.2	8260.7	8277.5	8477.8	6152.0
67.5°	623.8	649.1	835.4	1243.9	2077.9	3707.1	7156.4	9397.3	9413.1	9170.8	6756.2
69°	488.0	509.4	656.1	937.6	1408.8	2664.4	6476.1	9730.2	9777.4	9369.2	6777.7
70°	414.2	435.2	565.0	791.9	1132.8	2058.8	5764.4	9647.5	9697.5	9350.6	6617.5
72.5°	253.6	265.7	376.4	557.5	759.3	1035.7	3554.8	8158.9	8243.4	8577.3	5687.4
75°	170.9	177.4	235.3	384.8	543.1	533.3	1846.8	5750.9	5933.9	6672.2	4200.6
77.5°	122.3	128.4	157.8	248.9	380.6	352.1	836.3	3574.0	3613.2	4001.7	2290.8
80°	69.6	75.2	111.6	148.0	258.2	234.9	332.5	1707.1	1726.8	1716.0	764.9
82.5°	36.4	41.1	61.2	97.6	165.8	153.6	138.2	571.5	574.3	477.7	167.6
85°	7.0	8.4	30.4	66.8	85.5	66.8	56.5	134.0	136.8	120.9	41.6
87.5°	0.0	0.5	12.1	14.9	16.8	17.3	18.2	26.1	28.0	37.8	11.2
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°	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8	1118.8
2.5°	1123.9	1107.1	1074.9	1037.6	1008.6	980.1	957.7	934.4	926.0	921.7	921.3
5°	1135.1	1099.7	1031.5	961.4	904.0	849.8	811.1	774.2	756.9	749.0	745.7
7.5°	1153.8	1096.9	987.1	880.2	797.5	729.8	676.1	636.0	615.9	607.5	604.2
10°	1175.8	1093.1	935.3	794.3	688.7	618.7	565.5	525.8	503.8	494.5	489.8
12.5°	1201.4	1086.6	875.5	707.4	595.8	525.8	461.3	412.3	387.1	376.4	371.2
15°	1233.2	1080.0	813.0	625.7	514.1	428.7	358.1	325.0	319.9	318.0	318.5
17.5°	1264.5	1069.8	744.8	544.9	428.2	334.8	298.8	297.0	297.9	297.9	297.9
20°	1292.5	1046.4	670.5	475.8	346.5	282.5	275.0	271.8	269.4	267.6	265.2
22.5°	1314.4	1015.1	599.1	407.2	283.0	258.7	247.0	236.7	228.3	222.7	219.9
25°	1329.4	973.6	533.7	341.3	254.5	235.3	214.3	197.1	184.0	176.0	172.8
27.5°	1340.6	928.8	475.3	285.8	234.9	208.3	180.7	160.2	146.6	139.6	136.8
30°	1348.5	877.9	424.0	251.2	212.9	179.8	150.4	130.3	120.5	116.7	114.9
32.5°	1356.0	821.4	375.4	234.9	192.4	153.6	126.1	110.7	104.6	99.9	98.5
35°	1374.7	769.1	329.2	217.6	171.4	131.2	108.3	97.1	91.1	88.3	87.3
37.5°	1419.0	730.3	284.8	199.9	150.4	113.5	94.8	86.9	81.2	78.4	77.5
40°	1490.5	710.7	247.5	180.7	129.8	99.9	85.9	78.4	72.4	68.2	67.2
42.5°	1595.5	713.5	221.3	161.6	113.5	89.2	77.5	68.6	62.1	58.4	57.4
45°	1723.0	734.0	203.1	142.9	99.9	80.8	68.2	58.8	52.8	49.5	48.6
47.5°	1861.2	767.2	188.2	126.1	89.2	72.8	58.8	49.0	43.9	41.1	40.6
50°	2006.9	799.4	172.8	109.7	79.8	64.9	49.5	40.6	36.4	34.1	33.2
52.5°	2154.5	836.8	158.8	94.8	71.9	55.6	41.1	33.2	29.9	28.0	27.1
55°	2313.2	864.8	145.2	83.1	64.0	47.2	34.1	27.5	24.7	22.4	21.9
57.5°	2500.0	908.2	131.2	71.9	54.6	39.2	28.0	21.9	19.6	17.3	16.8
60°	2752.2	959.1	116.3	63.5	44.8	32.2	22.9	17.7	14.9	13.1	12.6
62.5°	3084.6	1015.6	97.6	55.6	36.4	26.1	18.2	14.0	10.7	8.4	8.4
65°	3506.3	1107.6	79.8	46.7	29.9	21.5	14.0	10.3	6.1	3.7	3.7
67.5°	3752.4	1123.5	64.4	38.3	24.3	18.2	11.7	7.0	1.9	0.5	0.0
69°	3673.5	1031.5	54.6	32.7	21.0	17.3	10.7	5.1	0.9	0.0	0.0
70°	3525.0	943.2	48.1	29.0	19.1	16.3	10.3	3.7	0.9	0.0	0.0
72.5°	2912.8	671.5	36.4	21.5	14.0	14.5	9.3	2.3	0.9	0.0	0.0
75°	2121.8	408.1	26.1	14.9	8.9	10.7	6.5	0.9	0.5	0.0	0.0
77.5°	1180.4	192.4	16.3	8.4	5.6	6.5	3.3	0.0	0.0	0.0	0.0
80°	383.4	52.3	7.5	4.7	3.3	3.7	1.4	0.0	0.0	0.0	0.0
82.5°	71.0	14.9	4.2	2.3	0.9	0.9	0.0	0.0	0.0	0.0	0.0
85°	15.4	6.1	2.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	1.9	0.5	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)