

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: P287019

Luminaire Tested: **USSL-C027-D-U-T3-AP-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P287019
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1810-004-7)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-C027-D-U-T3-AP-7030-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K LEDS AND TYPE III OPTICS WITH HOUSE SIDE SHIELD, GRAY
PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12462.3 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1.12' x L: 1.1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 96
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: 28.75 FT

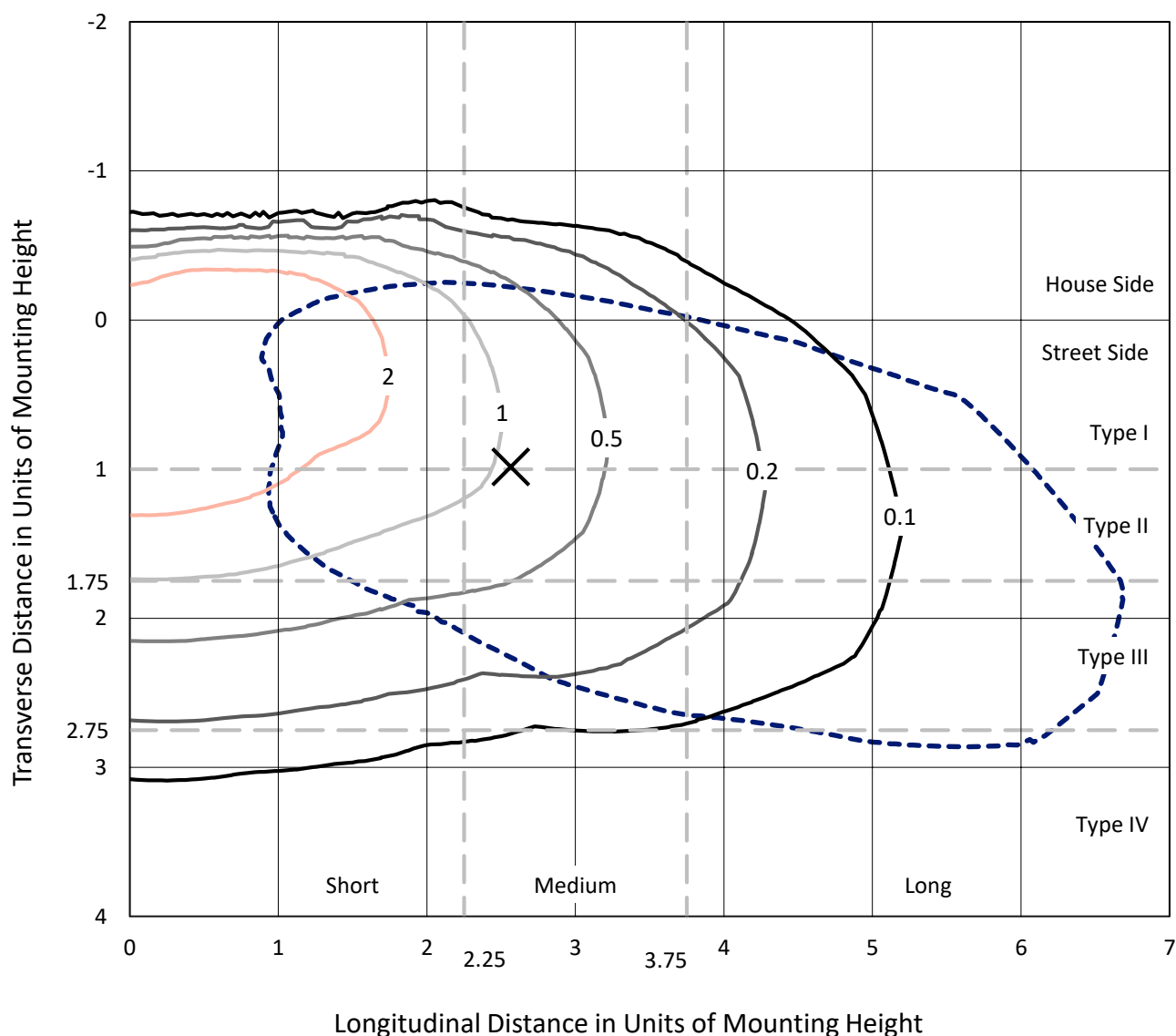


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

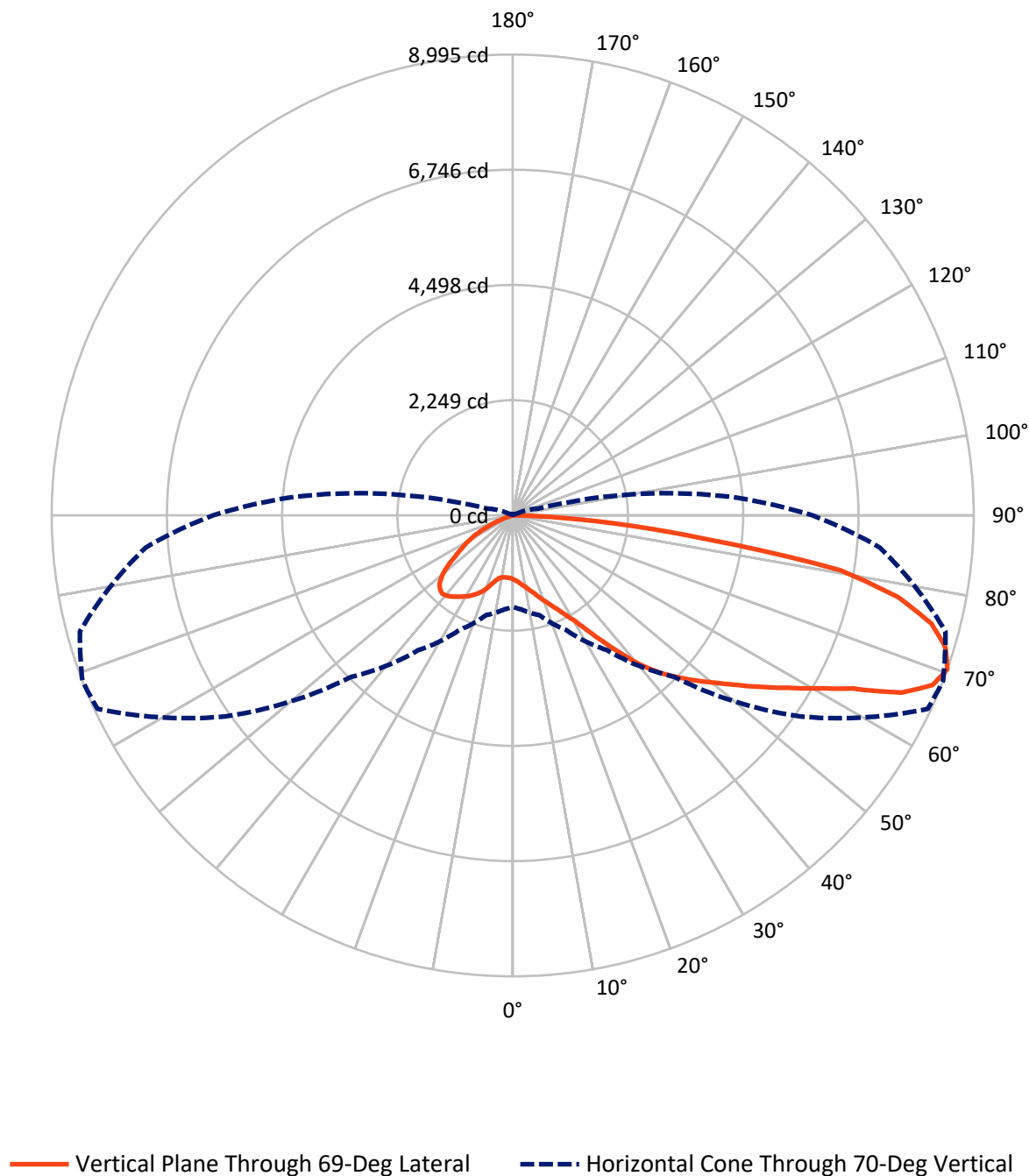


Based on 20 foot mounting height. Maximum calculated value = 4.7 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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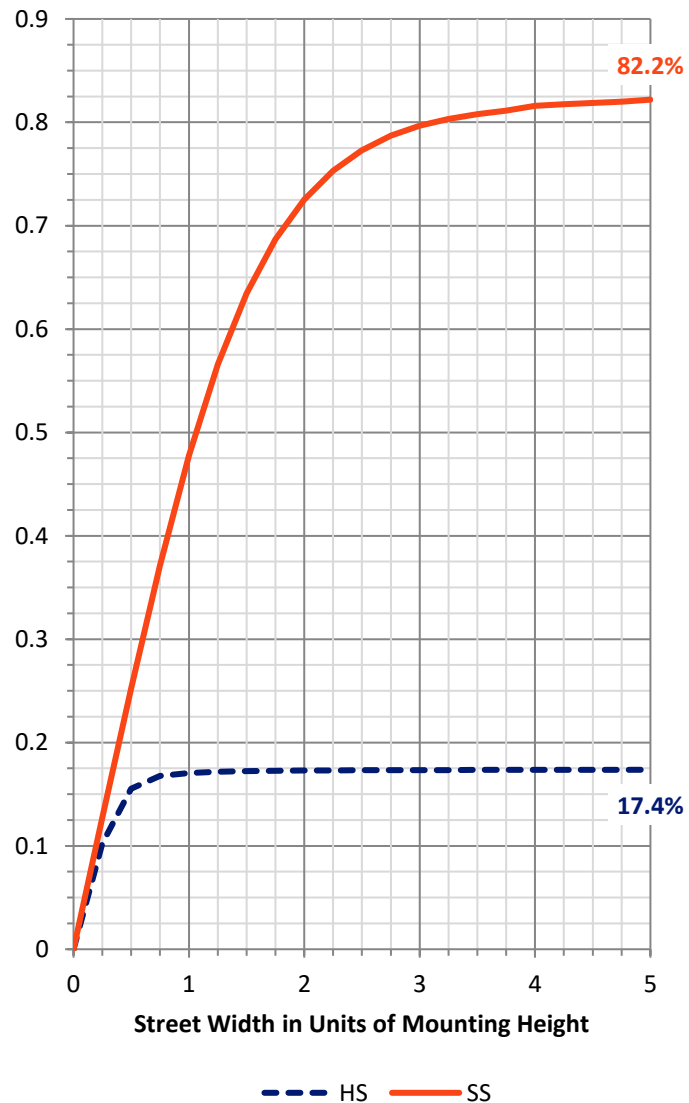
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2189.2	0.0	2189.2
	% Fixture	17.6	0.0	17.6
Street Side	Lumens	10273.1	0.0	10273.1
	% Fixture	82.4	0.0	82.4
Total	Lumens	12462.3	0.0	12462.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.2	1.0
10°-20°	384.3	3.1
20°-30°	704.9	5.7
30°-40°	1210.8	9.7
40°-50°	1892.2	15.2
50°-60°	2527.1	20.3
60°-70°	2957.3	23.7
70°-80°	2221.6	17.8
80°-90°	442.9	3.6
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°	12462.3	100.0
0°-180°	12462.3	100.0

Coefficient of Utilization



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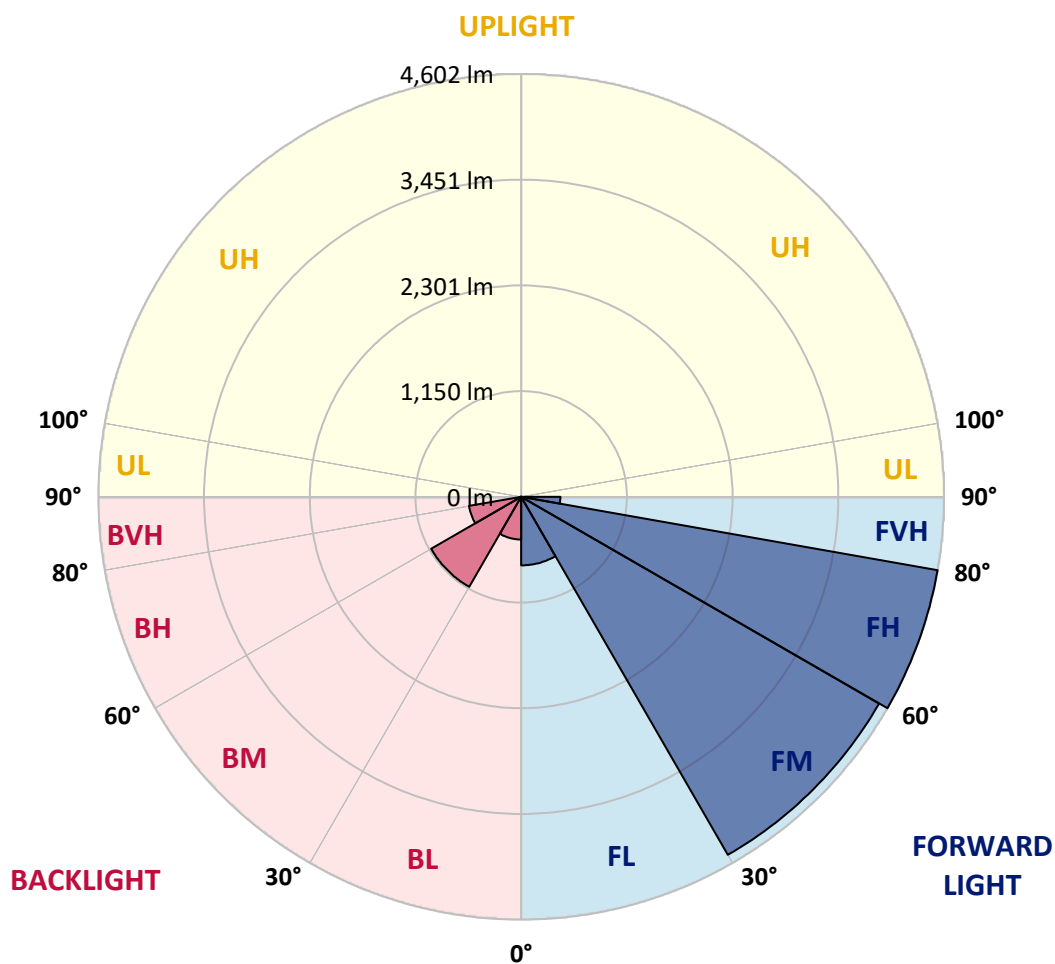
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	745.9	6.0			
FM	(30°-60°)	4498.7	36.1			
FH	(60°-80°)	4602.0	36.9			G2/5000
FVH	(80°-90°)	426.5	3.4			G3/500
BL	(0°-30°)	464.5	3.7	B1/500		
BM	(30°-60°)	1131.3	9.1	B2/2500		
BH	(60°-80°)	576.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	16.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	69°	75°	85°
0°	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1
2.5°	1332.6	1342.0	1336.0	1314.5	1310.5	1309.2	1295.1	1283.0	1275.6	1273.6	1250.8
5°	1405.0	1412.4	1410.4	1386.2	1379.6	1364.1	1352.1	1320.5	1315.9	1309.2	1281.6
7.5°	1459.4	1460.8	1472.8	1452.7	1445.9	1427.2	1409.8	1380.9	1375.5	1364.8	1325.9
10°	1509.7	1519.0	1525.7	1500.3	1511.0	1487.6	1466.8	1446.7	1424.5	1423.9	1374.9
12.5°	1541.8	1547.2	1562.0	1541.8	1557.3	1556.7	1537.8	1515.0	1502.3	1490.9	1435.2
15°	1562.0	1568.0	1587.5	1602.9	1608.3	1617.0	1616.3	1598.9	1576.7	1572.7	1515.0
17.5°	1593.6	1598.9	1613.6	1638.4	1657.3	1676.7	1692.1	1693.4	1680.0	1675.4	1622.4
20°	1641.1	1640.4	1648.5	1662.6	1698.2	1741.1	1775.2	1788.1	1782.6	1782.0	1743.1
22.5°	1691.4	1688.7	1696.8	1703.5	1740.4	1812.1	1868.5	1900.7	1902.7	1898.7	1891.9
25°	1771.9	1758.5	1757.8	1765.2	1814.1	1897.3	1971.1	2026.1	2031.4	2042.2	2101.9
27.5°	1976.5	1974.5	1914.7	1863.8	1896.7	1991.2	2099.9	2172.3	2197.1	2238.0	2350.6
30°	2270.8	2259.5	2234.7	2116.0	2027.5	2114.0	2250.8	2362.7	2388.9	2534.4	2635.0
32.5°	2535.2	2522.4	2512.3	2402.4	2280.3	2260.9	2398.3	2589.4	2664.6	2889.9	2965.1
35°	2765.8	2758.5	2758.5	2684.7	2561.2	2477.4	2575.3	2830.9	3011.3	3326.5	3346.6
37.5°	2975.1	2981.1	2989.1	2908.0	2845.0	2818.2	2810.7	3130.0	3399.0	3730.2	3733.0
40°	3160.2	3173.7	3189.7	3130.7	3087.8	3111.2	3067.7	3490.9	3825.5	4185.0	4100.4
42.5°	3304.3	3322.5	3403.7	3321.8	3353.3	3401.0	3391.6	3777.2	4191.7	4517.6	4435.8
45°	3411.7	3425.8	3474.8	3498.2	3573.3	3668.5	3689.3	4071.0	4505.5	4820.7	4709.5
47.5°	3495.6	3485.5	3514.9	3635.0	3793.3	3899.9	3982.5	4407.6	4812.7	5101.1	4948.9
50°	3534.4	3533.1	3606.2	3753.7	3985.1	4137.3	4295.7	4846.9	5133.9	5368.7	5196.4
52.5°	3563.3	3586.7	3702.1	3874.5	4176.2	4384.2	4550.5	5272.2	5499.5	5663.2	5467.9
55°	3584.7	3630.4	3743.7	3940.8	4307.8	4596.8	4818.1	5658.5	5908.6	5941.5	5712.8
57.5°	3451.2	3499.6	3678.6	3960.3	4410.3	4780.6	5093.8	6101.7	6351.9	6332.5	5975.0
60°	3225.3	3264.2	3482.8	3904.7	4423.1	4985.1	5488.1	6594.7	6848.9	6846.2	6285.5
62.5°	2986.5	3021.4	3237.4	3720.9	4337.9	5096.4	5948.2	7334.4	7440.4	7335.1	6568.5
65°	2682.7	2718.2	2932.8	3412.3	4128.0	5090.4	6336.5	8125.8	8339.1	8034.6	6887.1
67.5°	2280.3	2337.3	2531.1	2975.1	3723.5	4896.5	6673.1	8722.8	8836.7	8561.8	7084.9
70°	1784.0	1839.7	2014.7	2468.1	3207.8	4453.3	6838.8	8936.7	8995.1	8740.8	7188.9
72.5°	1246.1	1292.3	1371.5	1763.9	2492.9	3769.1	6828.7	8833.4	8830.7	8572.5	6952.2
75°	444.0	506.3	826.9	1065.7	1451.3	2771.9	6382.1	8408.2	8437.7	8203.6	6464.5
77.5°	115.3	120.7	254.9	514.4	815.5	1340.7	4739.7	7609.4	7689.3	7417.6	5683.9
80°	84.5	88.5	122.7	358.1	466.8	590.2	2599.5	6235.2	6482.7	6341.2	4358.0
82.5°	59.7	64.3	89.9	236.0	308.5	392.4	976.5	3386.2	3779.2	3756.4	2150.9
85°	37.5	40.9	56.4	84.5	117.3	157.6	274.9	1738.3	1994.5	2102.5	940.2
87.5°	17.5	20.1	31.5	50.3	71.8	83.2	83.2	372.9	464.8	493.6	200.5
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°	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1	1246.1
2.5°	1238.7	1246.8	1229.4	1219.3	1198.5	1188.5	1183.1	1173.0	1170.3	1175.0	1179.7
5°	1267.5	1269.5	1234.0	1203.8	1177.7	1148.2	1134.1	1104.6	1091.8	1096.6	1101.9
7.5°	1304.4	1301.1	1246.8	1201.8	1154.9	1114.0	1085.1	1038.2	1024.8	1021.4	1028.8
10°	1339.3	1322.5	1262.2	1201.2	1138.8	1082.5	1038.2	988.6	956.3	952.3	953.7
12.5°	1402.4	1370.1	1300.4	1214.5	1139.5	1077.8	1013.4	940.2	902.7	890.6	890.6
15°	1489.6	1436.0	1370.1	1271.6	1182.4	1094.6	1002.7	907.4	841.7	812.8	812.2
17.5°	1583.5	1537.8	1468.1	1350.7	1233.4	1108.7	979.1	855.8	769.3	728.4	724.3
20°	1712.9	1686.7	1606.9	1445.9	1282.3	1110.7	949.7	792.1	675.4	619.7	607.6
22.5°	1895.9	1860.4	1727.0	1520.4	1299.1	1093.8	893.3	689.5	546.0	472.8	465.4
25°	2085.1	2030.8	1843.7	1572.7	1311.8	1060.3	812.2	547.2	392.4	323.9	315.2
27.5°	2294.4	2209.1	1943.6	1622.4	1296.4	1002.7	668.7	380.9	254.9	211.2	202.5
30°	2537.2	2413.1	2050.9	1656.5	1279.6	886.0	495.0	246.9	165.0	132.8	130.8
32.5°	2838.3	2666.6	2156.9	1673.4	1219.3	733.7	319.9	157.6	102.0	85.9	83.2
35°	3197.7	2958.3	2299.0	1670.0	1120.7	531.2	200.5	92.5	67.7	65.1	65.1
37.5°	3538.5	3276.3	2469.4	1655.9	964.4	338.6	114.7	60.3	59.0	67.7	71.8
40°	3883.2	3586.7	2653.1	1617.6	766.6	203.9	63.7	53.6	56.4	66.3	70.4
42.5°	4183.0	3831.5	2830.9	1534.5	539.9	109.3	56.4	50.3	53.0	57.7	58.4
45°	4425.1	4058.9	2926.8	1417.8	319.9	69.1	53.6	48.3	46.3	48.3	49.0
47.5°	4685.3	4252.7	3004.6	1245.4	173.1	67.7	53.0	44.9	40.9	39.5	40.9
50°	4879.1	4458.6	3032.1	990.6	91.3	65.1	50.3	40.9	36.9	39.5	40.3
52.5°	5066.2	4616.9	3019.3	691.5	77.2	59.7	46.3	38.3	34.9	42.9	44.9
55°	5315.7	4812.1	2927.4	336.6	75.1	56.4	41.5	33.5	33.5	33.5	33.5
57.5°	5543.7	4946.2	2743.7	153.6	72.4	51.6	37.5	30.2	25.4	28.2	28.8
60°	5779.8	5153.4	2430.5	97.9	68.4	44.9	32.2	26.2	22.2	22.2	22.8
62.5°	6013.9	5197.6	1995.3	86.5	65.1	40.9	28.2	22.8	18.8	18.8	20.1
65°	6207.1	5123.9	1469.4	77.2	61.7	36.9	25.4	20.8	16.1	15.5	16.1
67.5°	6134.0	4763.7	954.3	69.1	56.4	33.5	22.2	18.8	14.7	12.1	12.7
70°	5848.2	4221.2	515.7	66.3	51.0	30.8	20.1	16.7	13.5	10.1	10.1
72.5°	5388.1	3557.2	193.9	61.7	47.0	26.8	18.1	16.7	12.7	8.1	7.4
75°	4634.3	2686.0	91.9	55.6	39.5	24.2	18.1	17.5	12.7	5.4	4.7
77.5°	3717.5	1498.3	70.4	47.0	32.2	20.1	18.1	16.7	7.4	2.6	2.0
80°	1997.9	562.7	53.0	34.2	23.4	15.5	16.7	12.1	3.4	0.6	0.0
82.5°	792.7	138.8	36.9	15.5	10.1	6.7	9.4	4.7	0.6	0.0	0.0
85°	199.9	54.4	22.8	8.1	5.4	3.4	1.4	0.0	0.0	0.0	0.0
87.5°	22.8	15.5	6.7	4.0	2.0	0.6	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)