

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: P318536

Luminaire Tested: **GAN-SA2D-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318536
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11673 lumens
Efficiency: N/A
Efficacy: 90.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

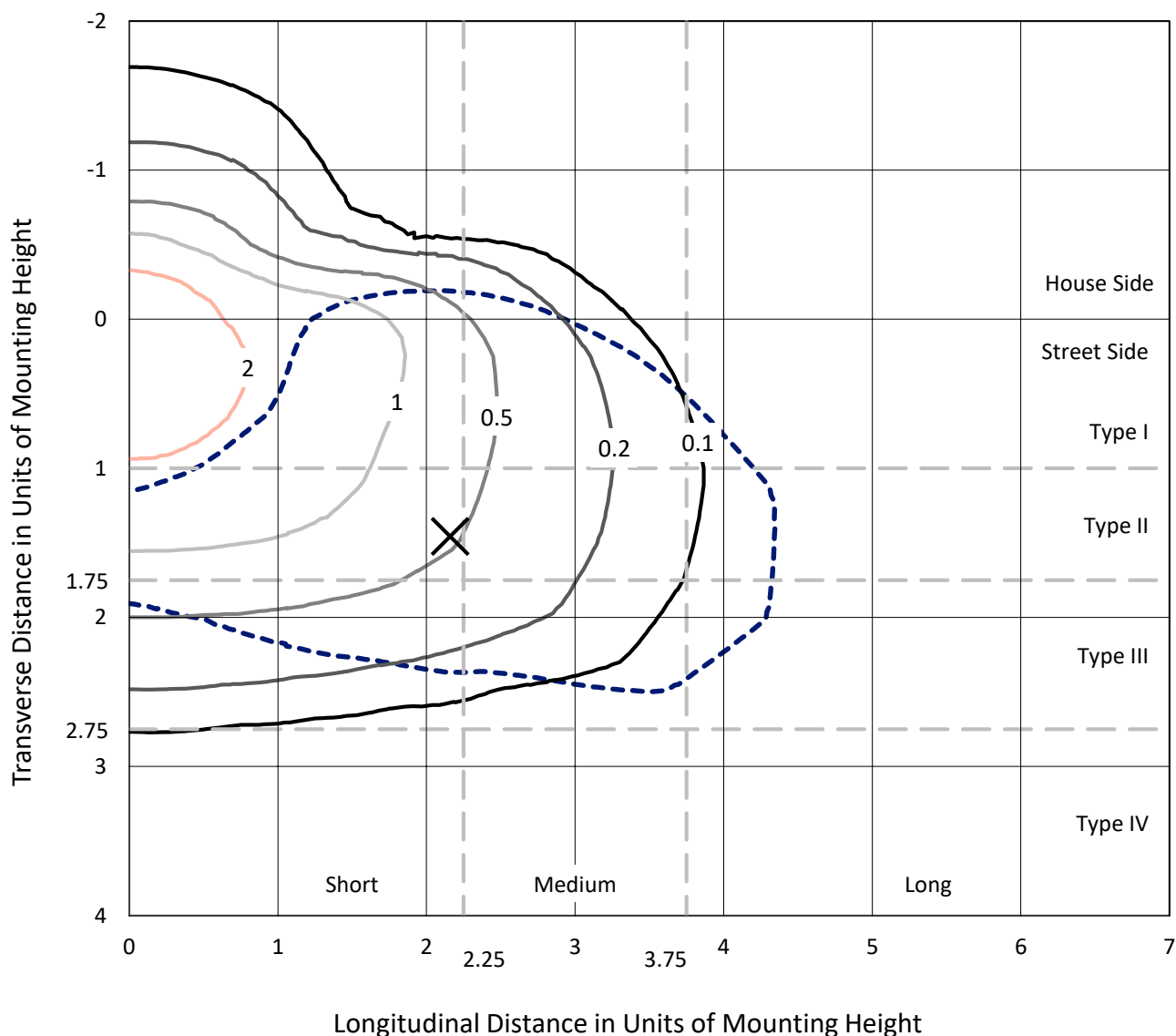
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

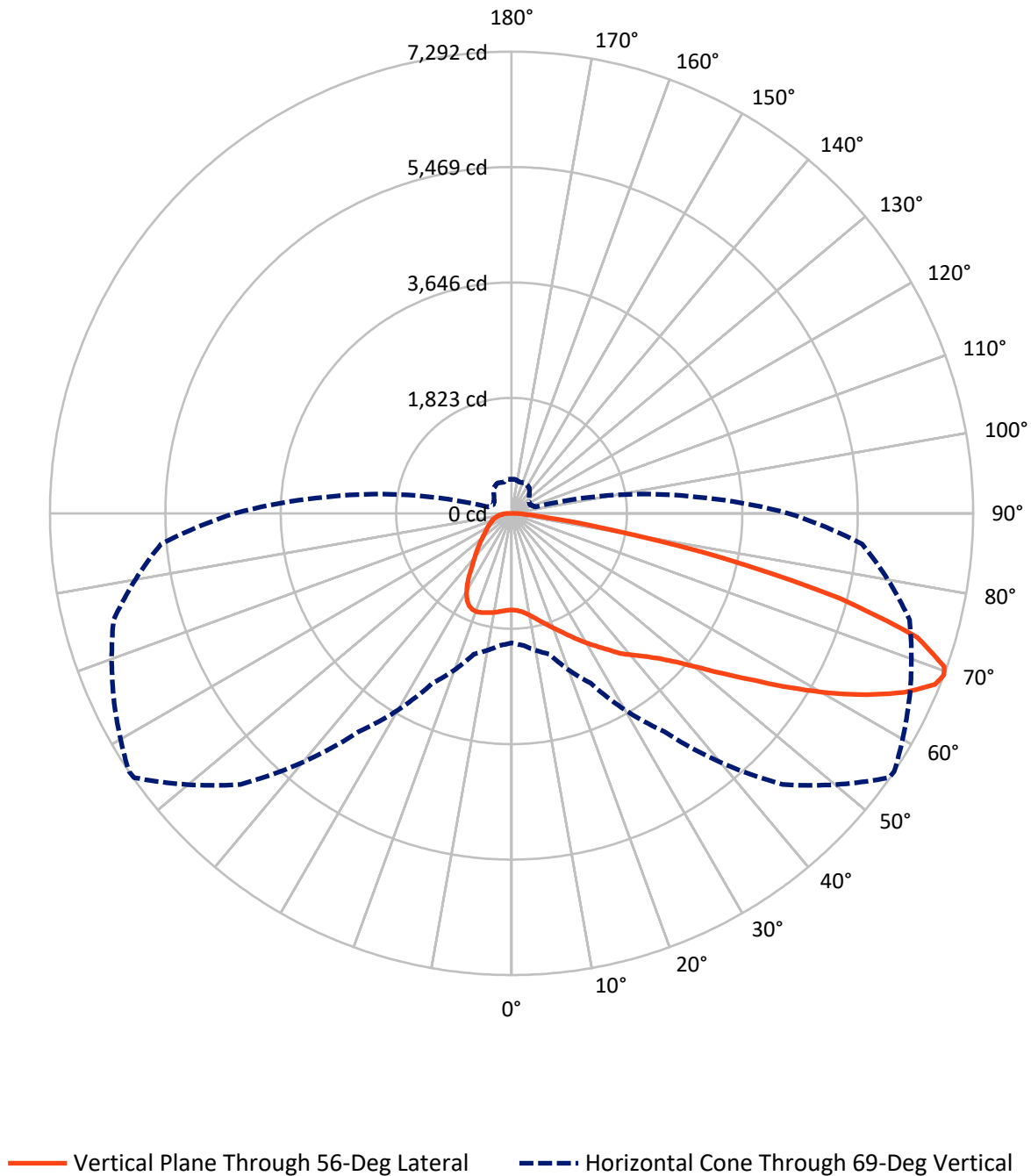
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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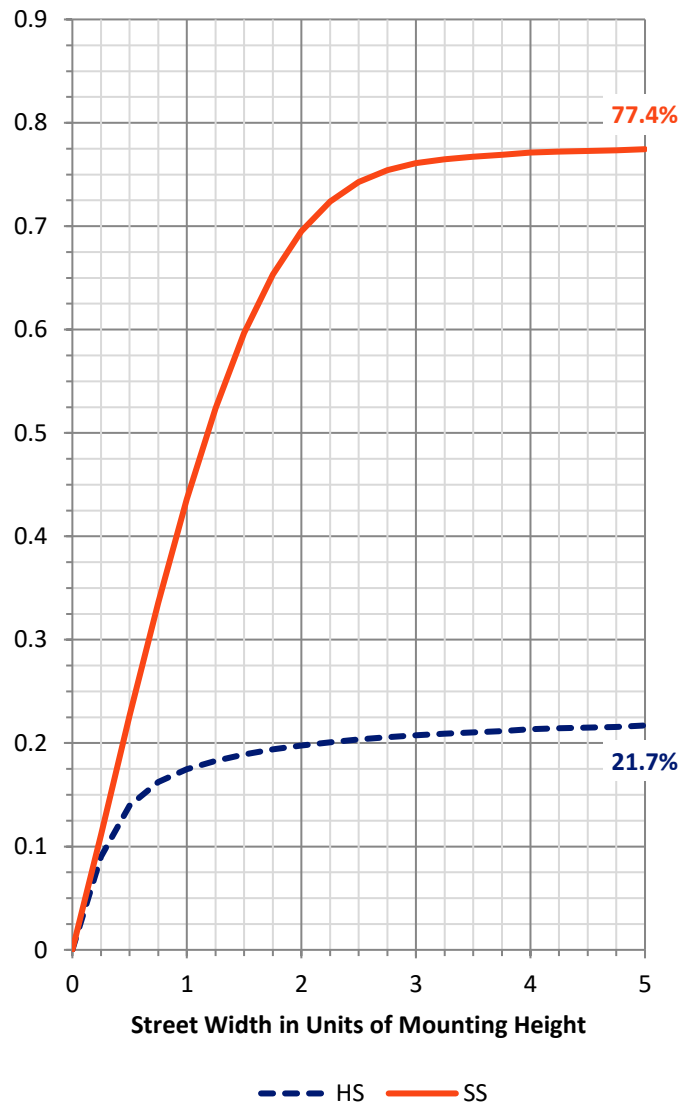
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2599.6	0.0	2599.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	9073.4	0.0	9073.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	11673.0	0.0	11673.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.9	1.3
10°-20°	482.0	4.1
20°-30°	841.3	7.2
30°-40°	1208.5	10.4
40°-50°	1672.6	14.3
50°-60°	2450.5	21.0
60°-70°	2987.7	25.6
70°-80°	1651.8	14.2
80°-90°	228.8	2.0
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°	11673.0	100.0
0°-180°	11673.0	100.0

Coefficient of Utilization



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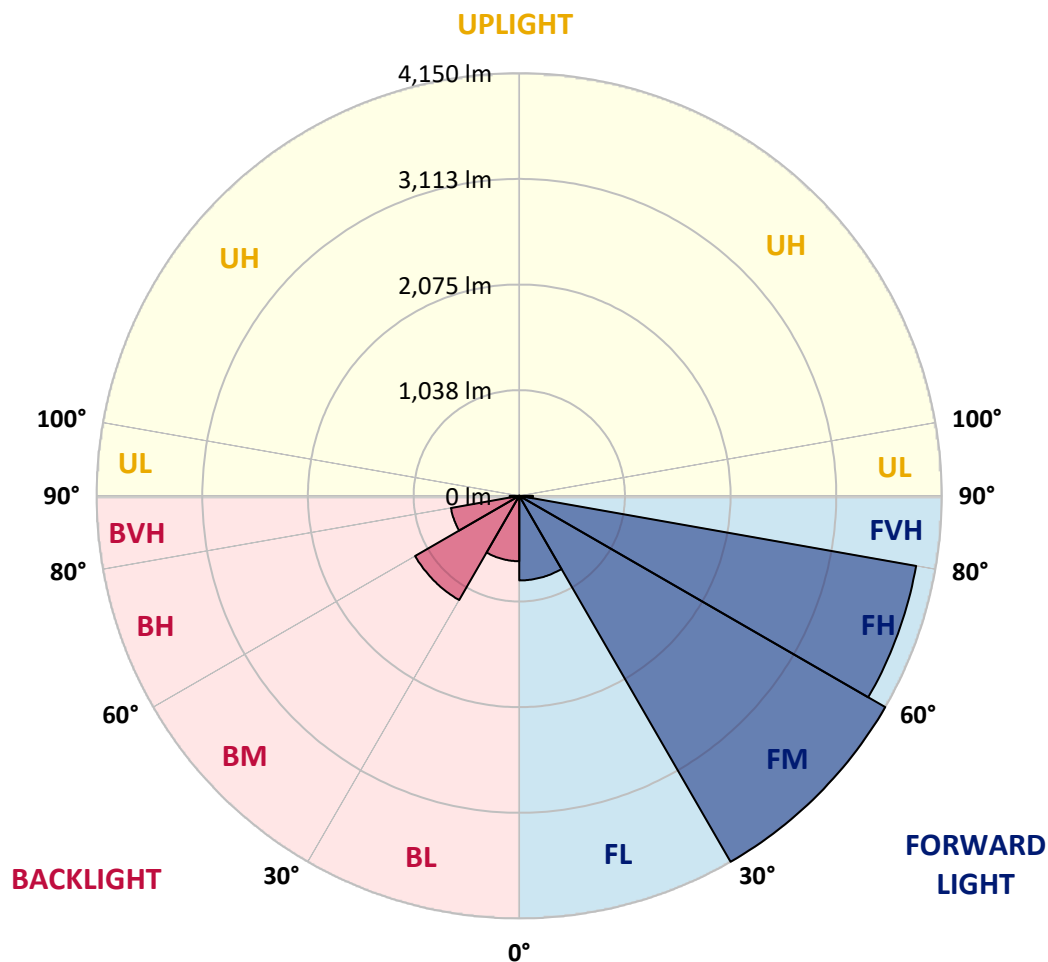
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	830.8	7.1			
FM	(30°-60°)	4150.2	35.6			
FH	(60°-80°)	3957.7	33.9			G2/5000
FVH	(80°-90°)	134.8	1.2			G2/225
BL	(0°-30°)	642.4	5.5	B2/1000		
BM	(30°-60°)	1181.4	10.1	B2/2500		
BH	(60°-80°)	681.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	94.0	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1
2.5°	1535.7	1537.3	1536.1	1539.3	1535.7	1538.1	1536.1	1536.1	1534.9	1531.3	1527.3
5°	1559.8	1563.1	1561.1	1564.3	1559.8	1560.7	1557.0	1557.0	1553.4	1545.8	1537.7
7.5°	1597.6	1601.3	1599.7	1602.9	1596.8	1596.8	1592.0	1591.6	1584.4	1571.9	1562.7
10°	1642.7	1647.5	1645.9	1650.7	1645.9	1647.5	1642.7	1642.7	1633.0	1615.3	1603.7
12.5°	1708.2	1714.3	1709.8	1709.4	1707.4	1710.6	1706.6	1705.8	1697.0	1672.8	1656.8
15°	1795.9	1802.3	1793.1	1792.3	1781.0	1779.8	1779.8	1778.6	1773.0	1744.0	1717.5
17.5°	1896.8	1898.8	1890.8	1877.9	1863.5	1854.2	1853.0	1856.2	1856.2	1822.4	1780.2
20°	1995.8	1999.4	1992.9	1978.5	1960.0	1946.3	1936.6	1943.1	1942.7	1902.5	1842.5
22.5°	2103.5	2112.0	2102.3	2083.8	2062.1	2046.8	2029.9	2035.6	2036.0	1986.5	1903.7
25°	2243.1	2235.4	2229.4	2203.2	2172.3	2156.6	2140.9	2146.5	2144.9	2077.0	1966.8
27.5°	2366.5	2368.1	2360.1	2332.3	2296.5	2262.0	2261.2	2264.8	2258.7	2171.1	2026.3
30°	2510.1	2510.9	2499.6	2474.7	2435.7	2391.0	2380.6	2386.6	2373.8	2260.4	2089.0
32.5°	2652.8	2656.8	2644.4	2614.2	2582.9	2528.6	2507.7	2511.7	2479.5	2351.6	2153.8
35°	2777.9	2783.5	2779.5	2759.4	2725.2	2678.6	2653.6	2651.2	2611.4	2463.4	2239.4
37.5°	2905.4	2910.6	2906.2	2889.3	2875.6	2826.1	2812.9	2812.9	2743.7	2577.6	2348.4
40°	3036.5	3044.5	3039.3	3015.9	3004.3	2981.8	2950.0	2942.4	2867.6	2714.8	2526.2
42.5°	3158.3	3168.8	3189.7	3176.0	3152.3	3155.5	3091.5	3087.5	3032.8	2917.4	2749.3
45°	3331.2	3346.5	3381.9	3371.4	3366.6	3348.9	3272.9	3269.3	3248.4	3190.1	3026.4
47.5°	3519.8	3540.7	3604.7	3606.7	3658.5	3625.2	3521.8	3509.4	3514.2	3516.6	3364.6
50°	3693.5	3716.5	3821.4	3870.9	3993.1	4000.4	3835.1	3823.8	3842.7	3898.2	3758.7
52.5°	3832.3	3861.2	3992.3	4145.1	4354.6	4414.1	4220.7	4212.3	4226.3	4322.1	4204.2
55°	3934.0	3965.4	4108.1	4386.4	4721.0	4825.9	4664.7	4656.6	4665.5	4787.3	4688.8
57.5°	3957.7	3965.4	4172.5	4548.9	5030.2	5282.3	5207.9	5191.9	5148.4	5254.6	5223.6
60°	3846.3	3876.9	4119.4	4606.0	5269.5	5732.3	5775.7	5755.6	5633.8	5720.6	5695.7
62.5°	3620.3	3675.0	3921.1	4519.1	5363.2	6099.9	6332.7	6308.6	6098.6	6154.9	6035.1
65°	3251.2	3274.5	3533.1	4219.5	5244.1	6335.1	6829.3	6817.2	6553.0	6465.0	6097.8
67.5°	2590.9	2634.7	2854.3	3593.4	4757.2	6307.3	7213.3	7212.1	6849.8	6580.0	5875.5
69°	2046.8	2092.3	2301.4	2960.1	4209.5	6053.6	7277.7	7291.8	6933.5	6510.0	5557.8
70°	1631.8	1684.5	1828.1	2493.2	3723.3	5719.0	7224.2	7249.5	6917.4	6394.6	5264.6
72.5°	694.5	737.1	839.2	1285.2	2269.2	4270.6	6605.3	6701.0	6544.6	5852.5	4351.0
75°	303.2	316.5	362.7	524.0	1007.3	2324.3	5174.6	5351.5	5596.0	4947.0	3241.1
77.5°	222.0	227.6	252.9	307.6	452.0	877.8	3327.6	3430.5	4035.7	3599.8	1988.1
80°	171.7	175.7	195.4	226.0	295.2	355.1	1517.6	1606.1	2269.2	1849.0	828.0
82.5°	136.7	139.5	153.2	166.5	203.9	215.1	503.9	559.0	837.6	510.7	219.2
85°	127.1	130.3	135.1	121.4	130.7	126.3	218.0	228.0	252.9	200.7	91.7
87.5°	57.5	68.0	133.9	94.5	69.6	55.5	89.3	93.3	105.0	105.4	40.6
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°	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1	1526.1
2.5°	1529.7	1528.5	1530.5	1525.7	1531.7	1531.3	1529.3	1530.1	1534.1	1533.7	1534.1
5°	1538.9	1538.1	1540.5	1536.9	1544.2	1546.6	1547.0	1550.6	1555.0	1556.2	1556.2
7.5°	1562.3	1562.3	1563.5	1558.6	1563.5	1563.1	1561.1	1564.7	1569.1	1569.5	1569.1
10°	1602.5	1602.9	1600.9	1588.4	1584.4	1573.5	1563.5	1563.9	1569.5	1573.9	1575.1
12.5°	1653.1	1651.5	1642.7	1619.8	1602.9	1580.8	1570.3	1569.9	1575.5	1579.1	1580.4
15°	1711.0	1706.6	1683.7	1646.3	1616.5	1594.8	1577.9	1573.9	1570.7	1566.7	1567.1
17.5°	1765.7	1755.7	1717.5	1665.6	1634.2	1605.3	1572.7	1546.6	1528.5	1518.0	1514.8
20°	1821.2	1801.5	1746.4	1683.7	1643.9	1591.2	1528.5	1475.4	1442.4	1427.1	1424.3
22.5°	1871.9	1840.1	1773.4	1702.6	1636.3	1543.8	1445.2	1368.0	1322.2	1301.7	1303.3
25°	1921.4	1877.1	1801.5	1715.9	1597.6	1460.1	1329.4	1234.5	1181.4	1158.5	1157.7
27.5°	1964.8	1914.5	1832.1	1705.0	1525.7	1341.1	1192.3	1099.8	1055.6	1035.9	1032.7
30°	2014.7	1961.6	1872.7	1663.6	1420.3	1203.6	1058.4	993.3	961.9	942.2	938.6
32.5°	2075.4	2025.5	1906.1	1588.4	1285.6	1060.0	953.8	908.4	879.9	857.7	853.7
35°	2163.8	2110.0	1914.5	1480.6	1137.6	946.6	877.0	830.4	791.8	763.2	760.4
37.5°	2274.8	2215.7	1895.2	1341.1	994.1	873.0	813.1	755.6	705.3	665.1	658.7
40°	2434.9	2345.6	1841.7	1180.2	888.3	816.3	750.8	685.2	622.9	575.8	566.6
42.5°	2627.1	2498.0	1759.7	1020.2	810.7	758.8	688.8	607.6	548.1	514.7	509.9
45°	2871.6	2656.4	1645.9	880.3	734.3	701.3	622.1	547.3	510.3	485.8	481.7
47.5°	3150.7	2834.2	1526.5	766.5	669.5	647.4	568.6	520.4	491.0	471.7	468.1
50°	3493.7	3034.8	1399.8	673.2	604.4	582.7	543.3	505.5	482.1	467.3	463.7
52.5°	3880.5	3261.2	1308.5	599.6	550.5	534.8	530.0	497.4	478.5	467.3	463.7
55°	4297.1	3491.7	1210.0	537.6	503.9	508.3	521.2	498.2	485.4	471.7	466.5
57.5°	4714.1	3729.7	1100.2	485.4	466.9	488.6	515.1	499.8	489.0	475.7	470.9
60°	5043.9	3880.5	930.1	441.5	437.5	466.9	500.6	487.8	473.7	474.1	473.3
62.5°	5197.9	3872.5	742.3	402.5	408.2	437.5	477.3	468.9	457.2	472.9	474.1
65°	5111.4	3679.5	577.9	367.1	376.8	407.0	453.2	459.6	463.7	493.8	497.8
67.5°	4748.7	3303.9	447.6	336.2	348.2	386.0	455.6	500.6	505.9	537.6	537.2
69°	4373.5	2951.6	388.9	320.1	334.2	391.3	487.0	526.8	507.1	540.9	536.0
70°	4059.1	2672.9	357.5	309.2	327.7	400.5	507.9	526.4	501.0	530.0	522.0
72.5°	3126.1	1923.0	303.2	289.1	306.0	383.2	513.9	514.7	487.0	492.6	478.9
75°	2144.1	1215.2	264.6	261.8	273.0	345.4	494.6	491.8	450.4	442.3	431.1
77.5°	1182.3	617.3	224.8	235.6	243.3	306.0	449.6	445.6	411.4	394.5	390.5
80°	456.0	270.2	189.8	209.5	214.3	265.0	394.1	390.5	361.9	340.2	334.2
82.5°	172.1	141.5	156.8	181.4	179.8	218.8	333.8	331.8	304.0	272.2	262.6
85°	79.6	84.8	124.3	149.6	137.9	162.1	267.0	270.6	236.9	199.1	199.1
87.5°	33.8	47.5	88.1	113.0	92.9	109.4	195.8	187.0	171.7	119.0	111.8
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)