

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: P397951

Luminaire Tested: **ARCH-S-PA1-60-830-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P397951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-S-PA1-60-830-U-T2R
Description: ARCHEON ROADWAY AND AREA LUMINAIRE
(1) 80 CRI, 3000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7218 lumens
Efficiency: N/A
Efficacy: 112.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.75' x H: 0')
IES Classification: Type II - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 64
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

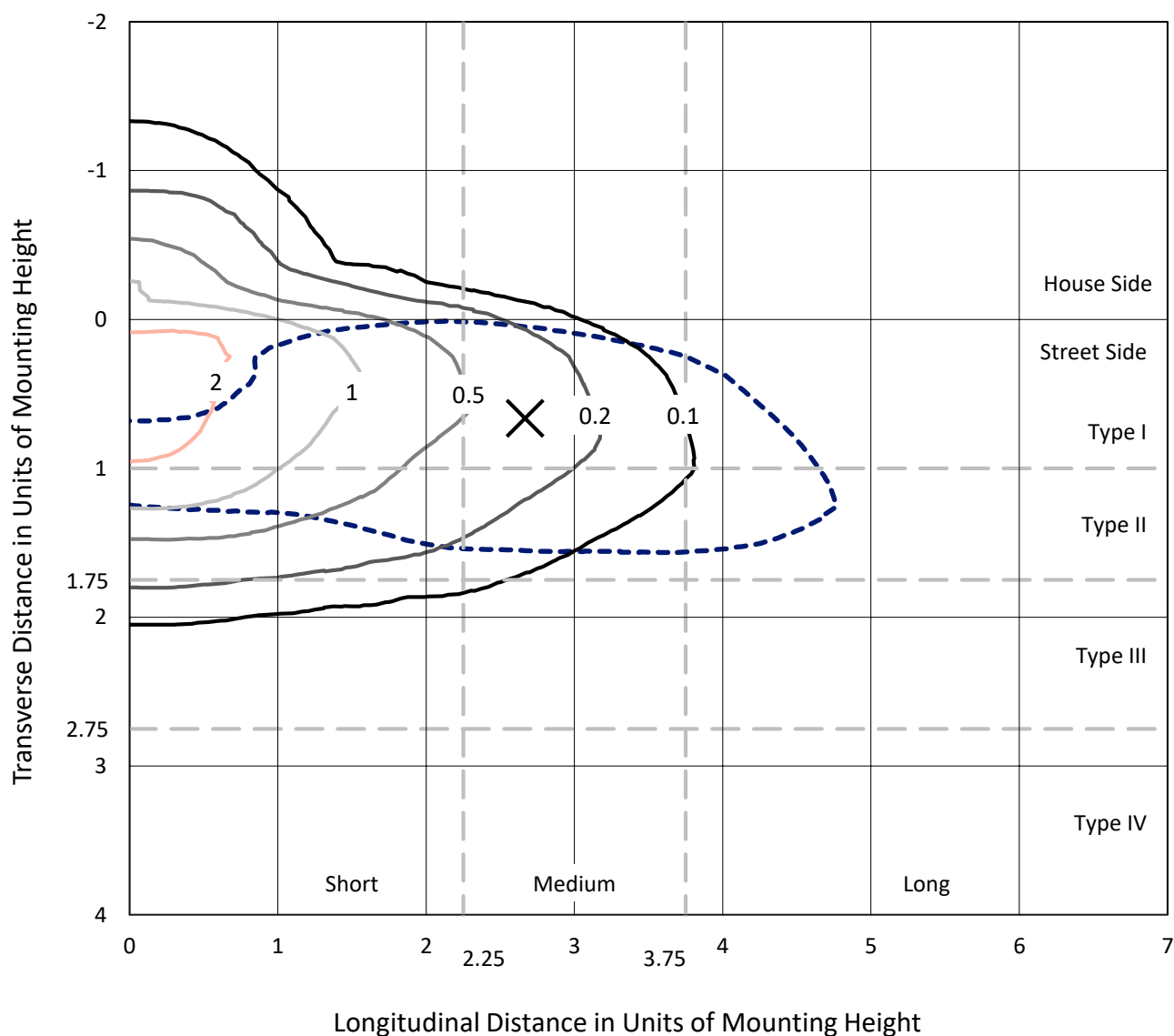


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

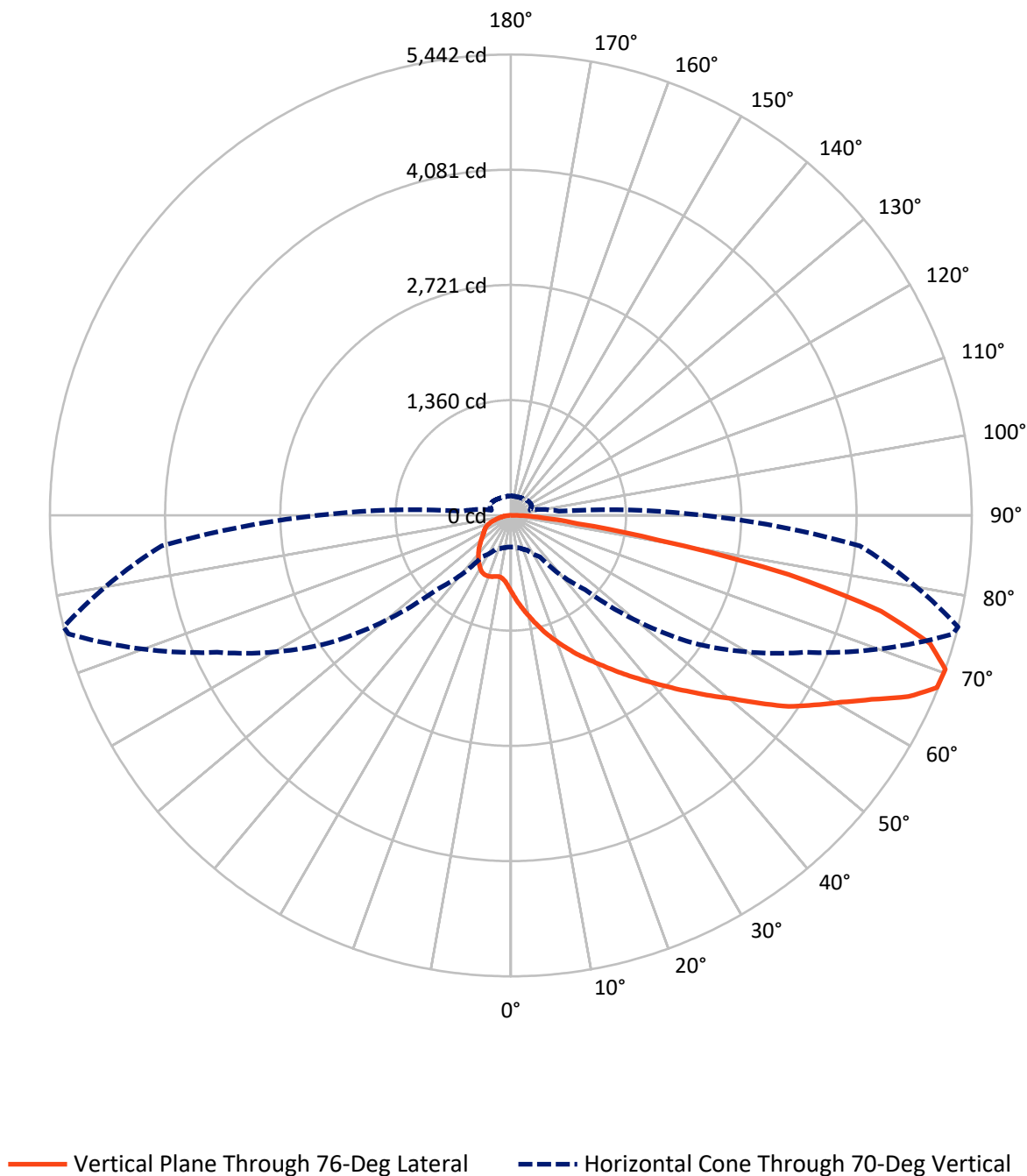


Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type II - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



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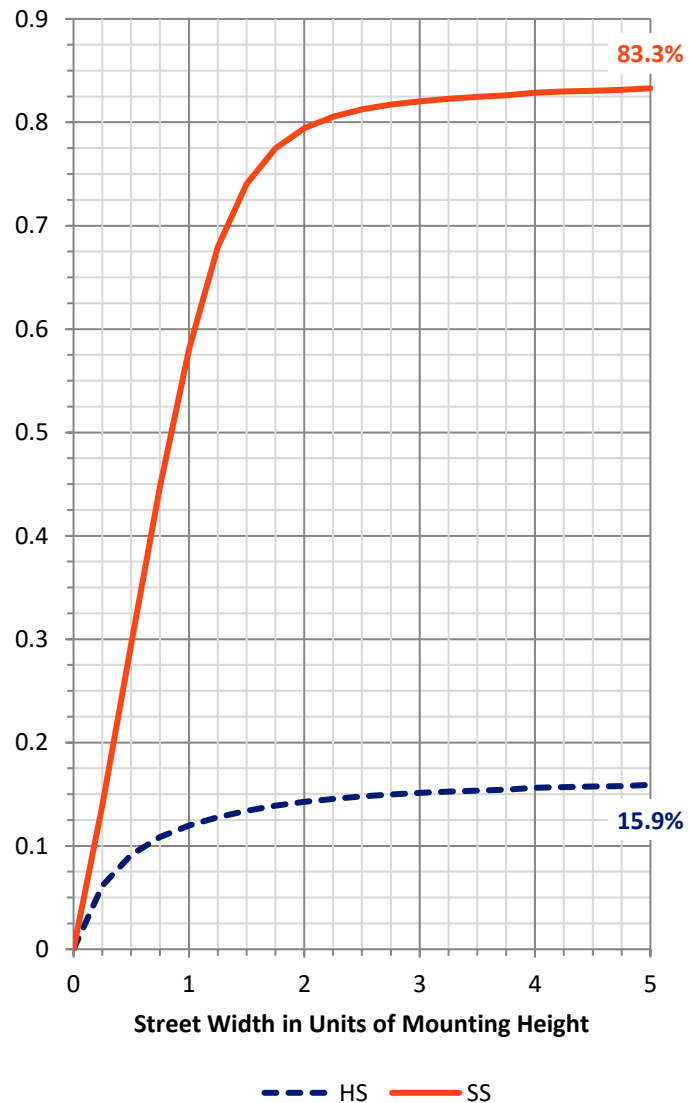
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1178.4	0.0	1178.4
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	6039.6	0.0	6039.6
	% Fixture	83.7	0.0	83.7
Total	Lumens	7218.0	0.0	7218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	1.3
10°-20°	318.8	4.4
20°-30°	570.3	7.9
30°-40°	922.5	12.8
40°-50°	1334.6	18.5
50°-60°	1527.5	21.2
60°-70°	1405.1	19.5
70°-80°	868.9	12.0
80°-90°	176.4	2.4
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°	7218.0	100.0
0°-180°	7218.0	100.0

Coefficient of Utilization



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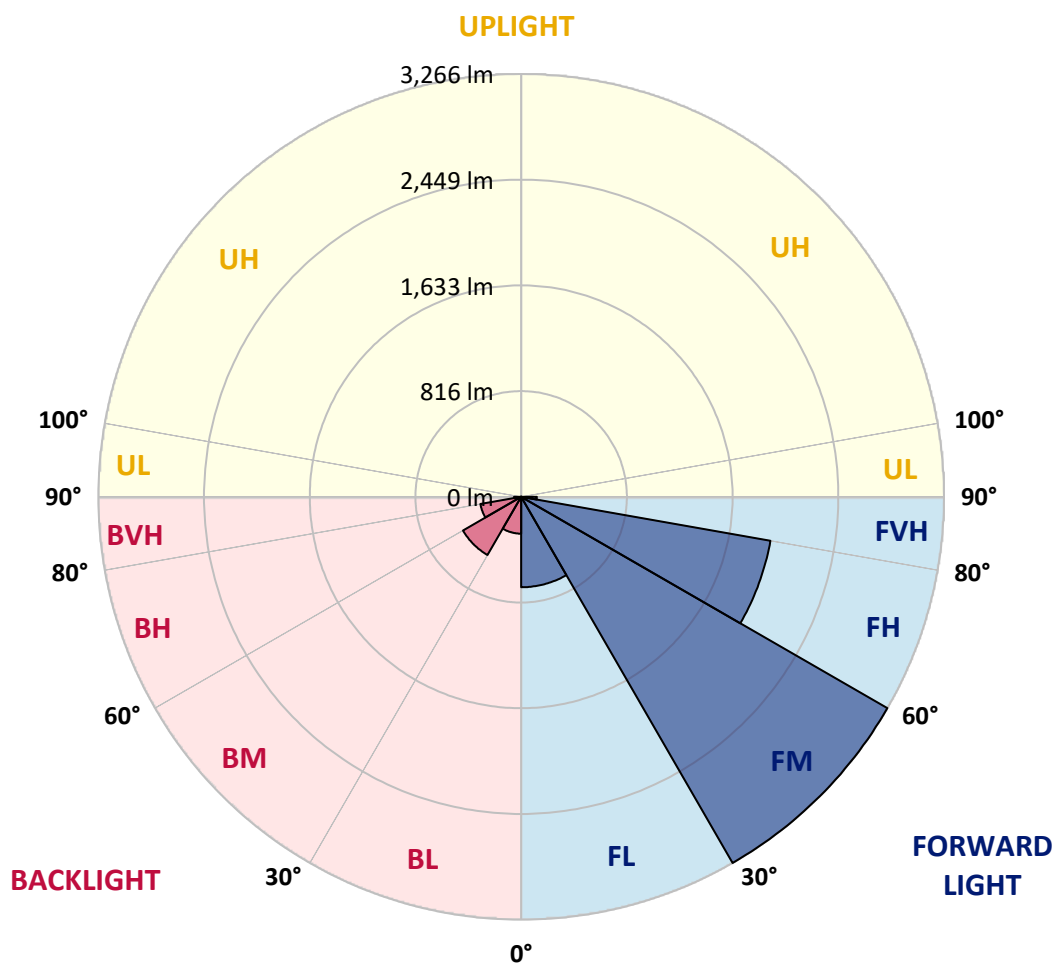
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	698.2	9.7			
FM	(30°-60°)	3265.8	45.2			
FH	(60°-80°)	1954.4	27.1			G2/5000
FVH	(80°-90°)	121.1	1.7			G2/225
BL	(0°-30°)	284.6	3.9	B1/500		
BM	(30°-60°)	518.8	7.2	B1/1000		
BH	(60°-80°)	319.6	4.4	B1/500		G1/500
BVH	(80°-90°)	55.3	0.8			G1/100
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°	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6
2.5°	1150.4	1141.8	1140.9	1127.6	1115.3	1082.0	1058.3	1016.5	974.8	973.8	932.1
5°	1329.8	1321.2	1316.5	1300.3	1279.5	1235.8	1193.1	1128.5	1057.4	1052.6	973.8
7.5°	1451.3	1443.7	1434.2	1427.5	1407.6	1368.7	1316.5	1239.6	1141.8	1132.3	1022.2
10°	1532.9	1528.1	1526.2	1521.5	1509.1	1477.8	1427.5	1345.9	1226.3	1215.9	1073.5
12.5°	1568.0	1566.1	1574.6	1587.9	1592.7	1580.3	1531.9	1455.0	1319.3	1307.9	1135.2
15°	1527.2	1529.1	1550.9	1596.5	1644.9	1671.5	1643.0	1568.0	1424.7	1408.5	1207.3
17.5°	1508.2	1511.0	1526.2	1569.9	1638.2	1720.8	1734.1	1675.2	1526.2	1503.5	1283.3
20°	1541.4	1545.2	1556.6	1590.8	1638.2	1726.5	1795.8	1777.8	1625.9	1602.2	1356.3
22.5°	1625.9	1630.6	1629.7	1651.5	1683.8	1744.5	1830.0	1874.6	1730.3	1703.7	1432.3
25°	1806.2	1802.4	1770.2	1759.7	1768.3	1807.2	1875.5	1967.6	1839.5	1812.9	1512.0
27.5°	2051.1	2046.4	1987.5	1934.4	1886.9	1904.0	1940.1	2042.6	1950.5	1920.1	1587.9
30°	2313.1	2307.4	2239.0	2152.7	2047.3	2022.6	2017.9	2108.1	2062.5	2030.2	1668.6
32.5°	2568.4	2563.7	2490.6	2390.0	2244.7	2170.7	2125.1	2181.1	2189.7	2158.4	1756.9
35°	2800.9	2800.9	2738.3	2618.7	2454.5	2342.5	2267.5	2271.3	2335.9	2299.8	1857.5
37.5°	3007.9	3006.9	2938.6	2820.9	2663.3	2535.2	2442.2	2380.5	2475.4	2444.1	1962.8
40°	3172.1	3165.4	3115.1	3012.6	2854.1	2726.9	2632.9	2508.6	2631.0	2602.6	2074.8
42.5°	3291.7	3287.9	3253.7	3164.5	3013.6	2894.0	2829.4	2670.0	2807.6	2779.1	2205.8
45°	3338.2	3345.8	3345.8	3261.3	3141.7	3032.5	3004.1	2847.5	2998.4	2969.9	2346.3
47.5°	3263.2	3283.1	3323.9	3329.6	3224.3	3150.2	3159.7	3025.9	3194.8	3179.7	2500.1
50°	3028.7	3065.8	3155.0	3316.3	3257.5	3240.4	3292.6	3208.1	3405.6	3400.8	2687.0
52.5°	2424.1	2514.3	2792.4	3081.9	3234.7	3282.2	3424.5	3413.1	3677.0	3684.6	2931.0
55°	1859.4	1893.6	2215.3	2707.9	3095.2	3268.9	3512.8	3613.4	3971.2	3980.7	3155.0
57.5°	1503.5	1526.2	1701.8	2215.3	2777.2	3196.7	3582.1	3730.2	4197.1	4221.8	3354.3
60°	1191.2	1224.4	1342.1	1695.2	2332.1	3023.0	3630.5	3860.2	4440.1	4477.1	3592.5
62.5°	885.6	901.7	1012.7	1255.7	1846.1	2710.8	3604.9	4001.6	4738.2	4782.8	3879.2
65°	630.2	644.5	723.3	893.2	1364.9	2288.4	3455.9	4107.0	5112.1	5157.7	4167.7
67.5°	471.7	477.4	522.0	624.5	919.7	1777.8	3154.0	4088.9	5385.5	5426.3	4283.5
70°	373.0	374.9	396.7	451.8	598.0	1237.7	2625.3	3824.1	5405.4	5441.5	4137.3
72.5°	309.4	308.5	320.8	347.4	416.7	783.0	1944.8	3332.5	5149.1	5173.8	3729.2
75°	255.3	257.2	265.8	280.9	318.0	516.3	1260.5	2658.6	4542.6	4516.1	3129.3
77.5°	214.5	213.6	217.4	230.6	257.2	371.1	738.4	1921.1	3366.6	3353.3	2054.0
80°	172.7	174.6	180.3	191.7	216.4	282.8	436.6	1198.8	1806.2	1757.8	981.4
82.5°	115.8	133.8	145.2	158.5	187.0	208.8	277.2	609.4	807.7	795.4	445.2
85°	55.1	73.1	108.2	123.4	151.9	131.0	187.9	290.4	404.3	399.6	160.4
87.5°	11.4	11.4	57.9	69.3	94.0	56.0	104.4	126.2	195.5	183.2	65.5
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°	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6	902.6
2.5°	907.4	881.8	830.5	789.7	747.9	724.2	694.8	680.5	677.7	670.1	675.8
5°	923.5	873.2	776.4	712.8	670.1	649.2	638.8	635.0	634.0	632.1	632.1
7.5°	945.4	868.5	742.2	677.7	650.2	643.5	646.4	652.1	653.0	654.9	654.0
10°	971.9	869.4	723.3	669.2	655.9	656.8	666.3	673.9	677.7	680.5	679.6
12.5°	1008.9	880.8	720.4	674.8	669.2	672.9	682.4	690.0	693.8	694.8	694.8
15°	1057.4	904.5	727.0	687.2	682.4	685.3	691.0	693.8	694.8	693.8	693.8
17.5°	1110.5	933.0	736.5	694.8	687.2	684.3	682.4	679.6	673.9	670.1	670.1
20°	1161.8	958.6	741.3	693.8	680.5	669.2	657.8	643.5	634.0	626.4	626.4
22.5°	1213.0	982.4	741.3	683.4	662.5	640.7	616.9	594.2	579.9	570.4	570.4
25°	1267.1	1005.1	735.6	665.4	634.0	602.7	570.4	542.0	527.7	518.2	516.3
27.5°	1312.7	1018.4	720.4	639.7	598.9	559.0	522.0	492.6	482.2	473.6	473.6
30°	1361.1	1027.0	691.9	606.5	559.0	513.5	475.5	451.8	440.4	428.1	427.1
32.5°	1415.2	1032.7	659.7	571.4	518.2	469.8	437.6	418.6	393.9	380.6	378.7
35°	1477.8	1040.3	625.5	531.5	477.4	433.8	414.8	383.5	359.7	348.3	347.4
37.5°	1544.3	1046.0	588.5	496.4	440.4	410.0	391.0	354.0	333.2	316.1	314.2
40°	1614.5	1046.0	550.5	462.2	411.0	399.6	363.5	330.3	295.2	286.6	284.7
42.5°	1692.3	1044.1	512.5	429.0	383.5	375.9	347.4	312.3	294.2	286.6	284.7
45°	1774.9	1037.4	476.5	391.0	355.0	339.8	318.0	308.5	300.9	300.9	300.9
47.5°	1868.9	1031.7	435.7	356.9	334.1	317.0	300.9	295.2	294.2	297.1	299.9
50°	1989.4	1029.8	401.5	332.2	318.0	298.0	296.1	291.4	292.3	292.3	292.3
52.5°	2135.6	1012.7	369.2	314.2	301.8	278.1	283.8	288.5	290.4	289.5	288.5
55°	2242.8	982.4	341.7	301.8	290.4	270.5	278.1	285.7	287.6	284.7	284.7
57.5°	2339.7	939.7	319.9	292.3	282.8	265.8	274.3	281.9	280.0	279.1	278.1
60°	2450.7	898.8	302.8	287.6	275.3	263.9	271.5	276.2	273.4	271.5	270.5
62.5°	2571.2	859.0	290.4	287.6	269.6	262.9	268.6	270.5	264.8	262.9	262.9
65°	2627.2	796.3	277.2	287.6	266.7	261.0	262.9	261.0	255.3	255.3	254.4
67.5°	2535.2	692.9	260.1	283.8	270.5	258.2	254.4	251.5	244.9	244.9	243.0
70°	2280.8	569.5	235.4	271.5	271.5	257.2	243.0	236.3	228.7	231.6	227.8
72.5°	1948.6	451.8	205.0	250.6	265.8	256.3	230.6	220.2	213.6	216.4	210.7
75°	1578.4	350.2	168.9	217.4	251.5	251.5	218.3	204.1	196.5	196.5	189.8
77.5°	1006.1	259.1	137.6	180.3	225.9	244.9	207.9	186.0	174.6	171.8	167.1
80°	498.3	182.2	112.9	143.3	192.7	229.7	200.3	165.2	149.0	143.3	134.8
82.5°	264.8	126.2	90.2	112.0	153.8	206.9	190.8	142.4	122.4	113.9	104.4
85°	118.6	77.8	72.1	85.4	116.7	169.9	171.8	116.7	94.0	112.0	82.6
87.5°	43.7	35.1	35.1	43.7	67.4	71.2	121.5	75.0	59.8	40.8	32.3
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)