

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: P192610

Luminaire Tested: **GAN-AF-02-LED-U-5WQ-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192610
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5WQ-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8174.7 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 66
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



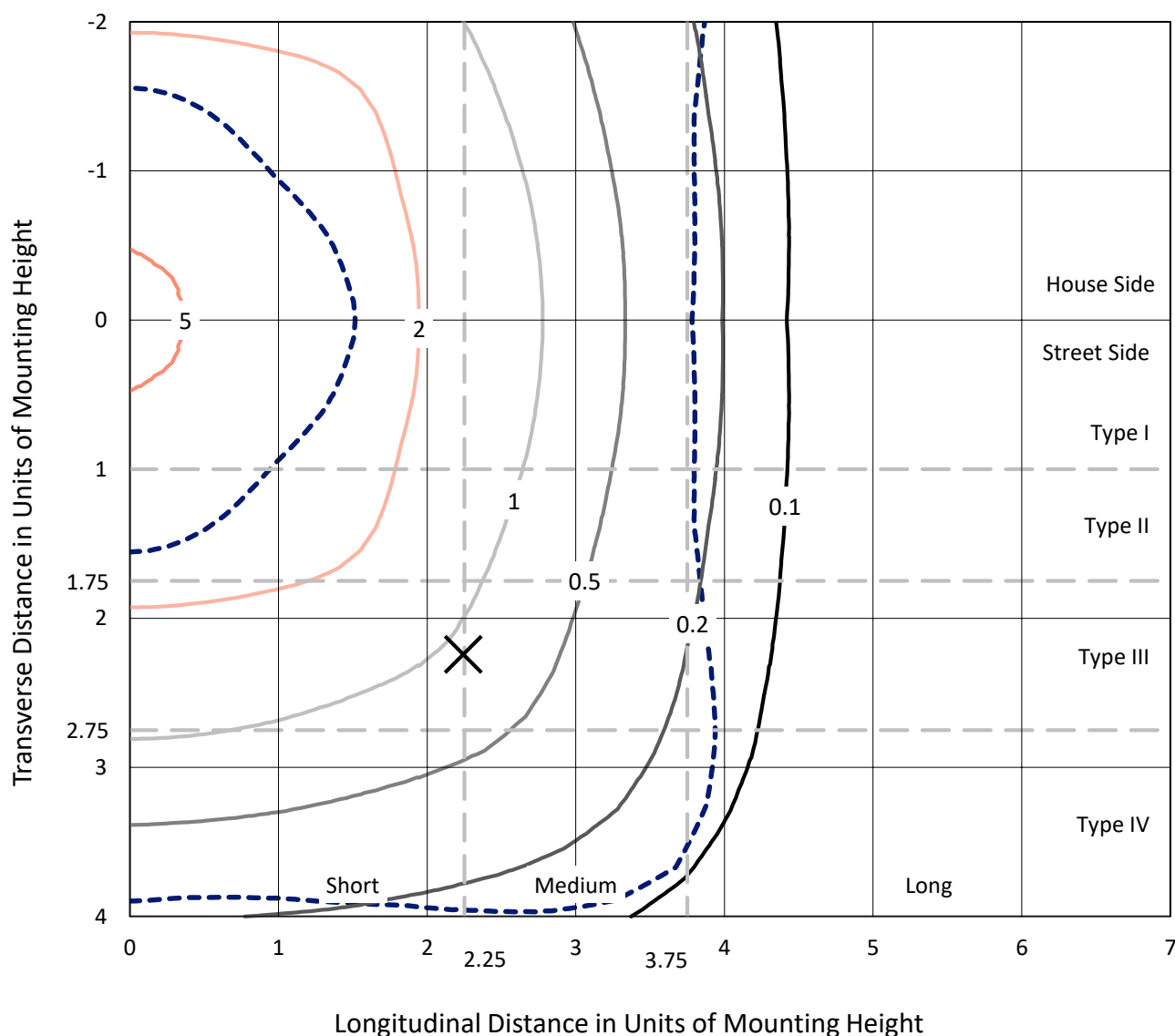
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



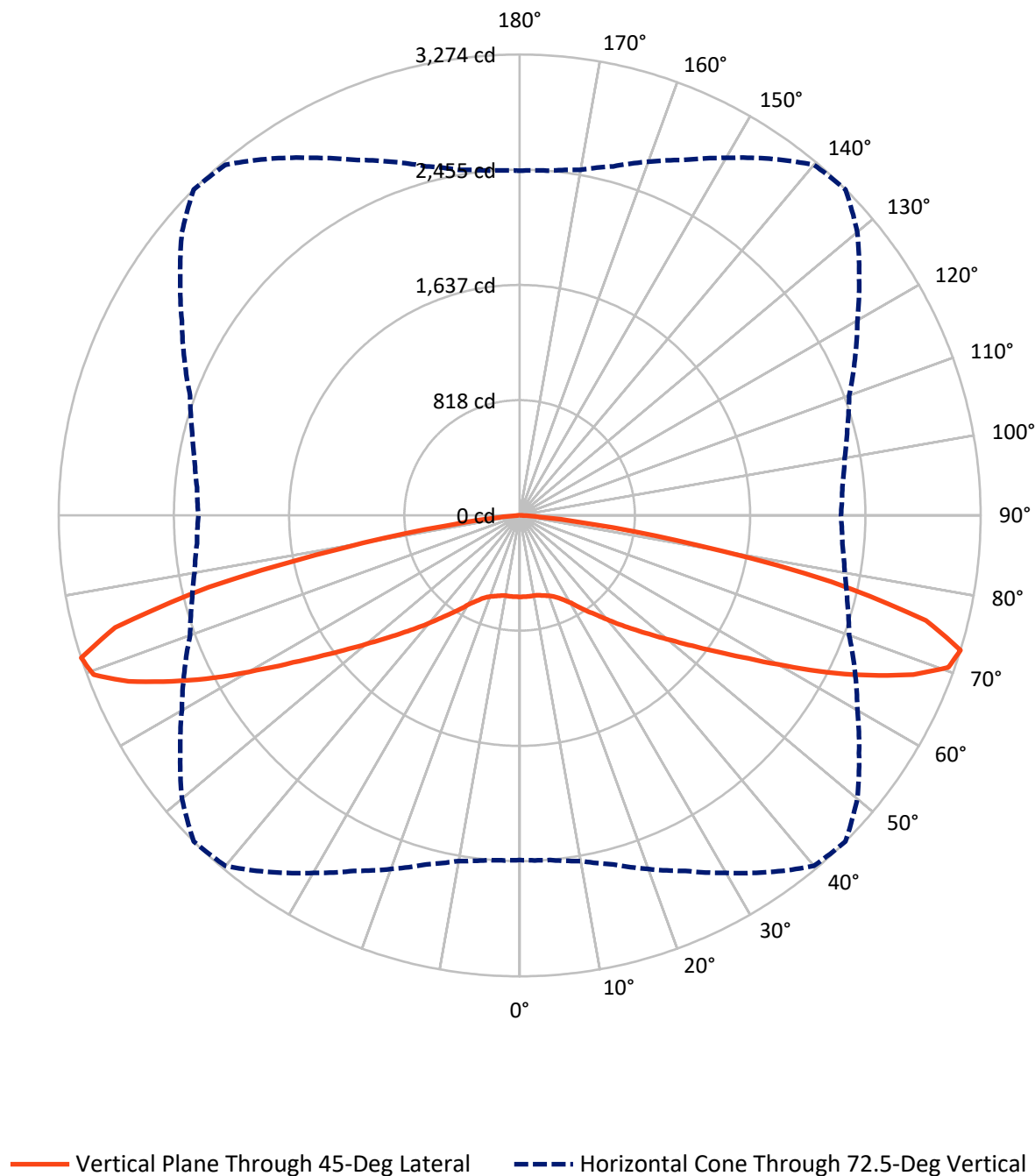
Based on 10 foot mounting height. Maximum calculated value = 5.8 fc

Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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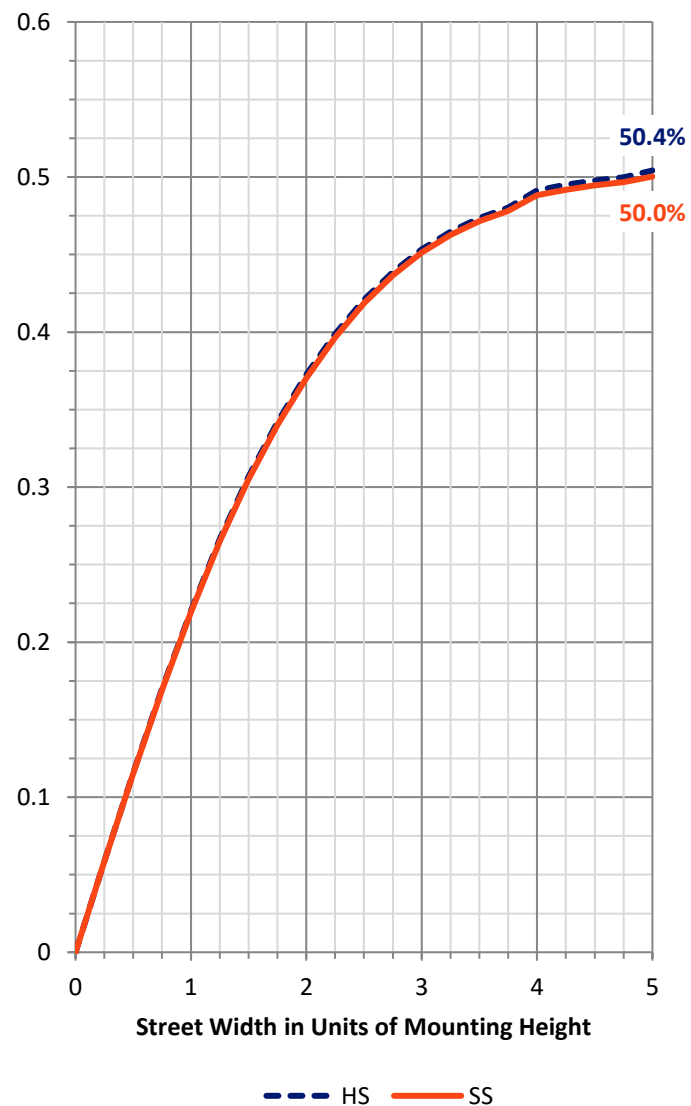
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4087.4	0.0	4087.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4087.4	0.0	4087.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	8174.7	0.0	8174.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.3	0.7
10°-20°	167.9	2.1
20°-30°	306.8	3.8
30°-40°	529.0	6.5
40°-50°	904.3	11.1
50°-60°	1465.7	17.9
60°-70°	2431.6	29.7
70°-80°	2141.6	26.2
80°-90°	172.7	2.1
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°	8174.7	100.0
0°-180°	8174.7	100.0

Coefficient of Utilization



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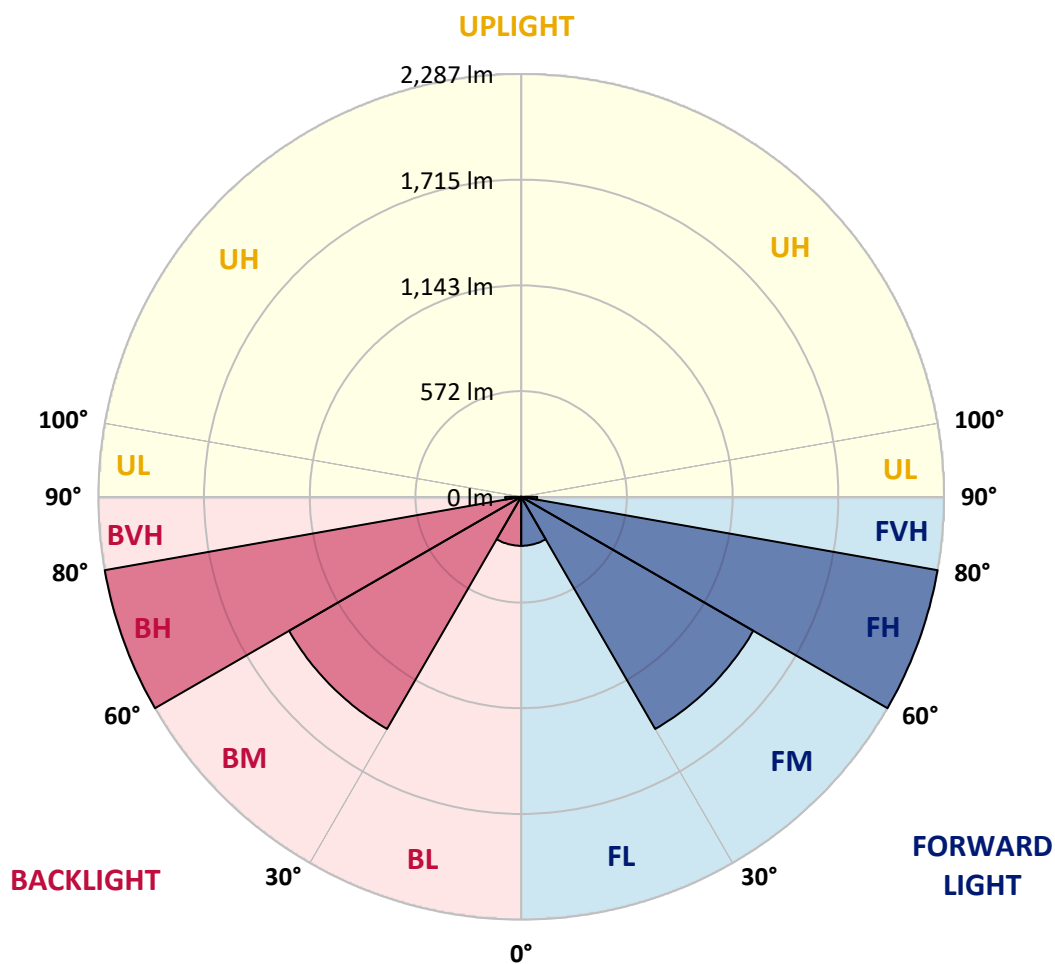
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	265.0	3.2			
FM	(30°-60°)	1449.5	17.7			
FH	(60°-80°)	2286.6	28.0			G2/5000
FVH	(80°-90°)	86.3	1.1			G1/100
BL	(0°-30°)	265.0	3.2	B1/500		
BM	(30°-60°)	1449.5	17.7	B2/2500		
BH	(60°-80°)	2286.6	28.0	B3/2500		G2/5000
BVH	(80°-90°)	86.3	1.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	578.8	579.3	579.6	579.3	579.3	578.8	578.5	578.8	578.5	577.8	578.2
5°	580.8	581.5	581.5	580.8	581.1	580.8	580.0	580.3	579.6	578.5	578.5
7.5°	583.0	583.5	583.5	582.7	583.0	582.3	581.5	581.1	580.3	578.8	577.8
10°	586.4	586.7	586.4	585.6	585.6	584.5	582.7	582.0	580.3	578.2	577.0
12.5°	590.1	590.5	590.1	589.5	589.0	587.2	585.6	584.5	583.5	581.5	579.6
15°	595.4	596.1	595.4	594.0	592.7	591.3	590.5	590.9	591.3	589.8	588.0
17.5°	605.2	605.6	604.4	601.0	599.5	597.9	597.9	598.7	600.0	599.2	597.3
20°	623.1	622.0	619.4	615.2	613.4	610.8	610.4	610.8	610.8	610.4	608.9
22.5°	645.6	644.8	641.5	636.2	633.6	632.2	629.9	628.0	627.7	626.5	625.1
25°	672.6	672.3	668.1	663.6	661.8	659.9	658.0	655.3	653.2	650.5	649.0
27.5°	707.1	705.6	699.6	697.4	694.8	693.6	690.9	688.0	686.1	682.8	680.9
30°	745.0	745.0	740.1	739.3	739.3	736.7	733.7	728.5	725.2	721.7	720.7
32.5°	782.9	783.3	778.4	779.9	780.9	782.9	783.6	781.7	779.4	779.1	776.9
35°	837.6	836.2	831.3	832.3	832.0	831.6	831.6	835.8	836.5	837.3	832.8
37.5°	905.4	905.4	900.7	900.7	898.3	896.2	893.0	895.7	899.9	901.0	898.0
40°	983.2	985.7	979.7	979.3	980.0	973.0	969.5	973.7	976.3	980.8	977.5
42.5°	1074.6	1072.7	1066.7	1066.0	1061.8	1059.6	1056.5	1060.0	1064.0	1067.0	1068.2
45°	1162.3	1160.8	1154.1	1154.1	1150.0	1148.1	1149.5	1155.2	1157.0	1161.2	1165.2
47.5°	1249.0	1247.0	1242.5	1244.5	1244.8	1248.2	1252.9	1258.3	1263.6	1269.1	1271.0
50°	1337.5	1337.8	1332.9	1337.5	1343.1	1352.4	1365.5	1374.2	1385.0	1392.2	1394.3
52.5°	1417.9	1419.5	1424.7	1435.2	1446.5	1464.8	1487.3	1508.4	1526.4	1538.4	1537.6
55°	1514.8	1516.9	1529.7	1547.7	1566.1	1593.9	1627.2	1664.3	1694.3	1711.5	1700.7
57.5°	1638.5	1643.4	1657.6	1681.9	1709.4	1745.3	1791.1	1846.9	1893.5	1916.6	1899.0
60°	1808.4	1811.3	1828.6	1855.5	1888.5	1933.2	1994.3	2069.3	2134.9	2165.6	2145.5
62.5°	2032.1	2037.8	2051.7	2078.9	2112.7	2163.4	2237.9	2331.7	2413.4	2456.2	2410.5
65°	2299.5	2317.5	2329.1	2356.8	2388.3	2442.0	2519.9	2620.5	2708.2	2736.3	2683.4
67.5°	2564.2	2579.9	2600.2	2632.0	2664.0	2724.3	2796.6	2894.2	2990.5	3016.0	2933.8
70°	2680.0	2689.1	2720.5	2764.0	2825.1	2896.4	2980.0	3089.6	3208.7	3229.7	3125.5
72.5°	2448.0	2456.9	2492.2	2566.1	2672.6	2785.8	2931.7	3092.5	3249.9	3273.5	3130.0
75°	1851.4	1836.7	1888.9	1986.8	2130.3	2288.2	2492.2	2722.7	2950.3	2980.0	2808.6
77.5°	956.8	954.9	994.4	1115.7	1287.2	1466.7	1691.4	1951.9	2174.6	2264.6	2125.1
80°	269.6	272.6	291.2	351.7	451.8	581.5	756.9	1001.1	1183.3	1276.2	1198.2
82.5°	105.8	113.9	121.1	132.3	145.5	164.6	219.7	326.9	438.6	524.1	429.3
85°	37.9	40.5	57.4	67.8	69.0	72.7	82.8	96.7	116.6	139.1	114.4
87.5°	14.2	15.8	18.3	30.4	30.0	27.5	33.4	34.9	26.2	24.0	29.6
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	578.8	578.8	578.8	578.8	578.8	578.8	578.8	578.8
2.5°	577.4	577.8	577.8	578.2	578.5	578.5	579.3	579.3
5°	577.8	577.8	577.0	577.4	577.0	577.0	577.4	577.4
7.5°	577.0	576.7	575.9	575.6	574.8	574.8	574.8	574.8
10°	575.9	575.6	574.8	574.3	574.0	574.0	574.0	574.0
12.5°	578.8	577.8	577.0	576.7	576.7	576.7	576.7	576.7
15°	586.7	584.1	582.3	582.3	582.7	583.5	583.5	584.1
17.5°	596.5	593.5	591.6	590.1	590.9	592.0	592.7	593.5
20°	608.1	606.6	603.9	602.6	602.6	603.9	604.8	605.2
22.5°	624.3	623.1	622.0	620.1	620.1	620.9	622.3	622.3
25°	648.2	647.5	646.9	645.2	644.8	644.8	645.6	646.4
27.5°	678.3	678.6	677.9	677.5	676.5	676.0	677.2	676.8
30°	718.4	720.2	722.1	720.7	718.7	717.7	716.5	715.0
32.5°	772.8	770.5	768.9	766.4	762.9	760.0	757.7	755.1
35°	824.2	820.3	818.9	821.1	820.7	818.9	816.2	814.0
37.5°	887.0	886.3	887.0	891.2	890.5	892.3	887.0	886.7
40°	966.6	967.4	972.6	977.5	980.0	982.7	979.7	976.7
42.5°	1058.8	1058.4	1060.4	1067.0	1071.7	1074.6	1068.2	1067.5
45°	1156.3	1153.7	1155.2	1160.8	1165.2	1168.6	1161.5	1161.5
47.5°	1263.6	1259.0	1254.2	1260.6	1263.1	1265.4	1259.8	1257.9
50°	1383.1	1373.7	1363.2	1365.8	1365.8	1365.2	1358.0	1357.6
52.5°	1520.4	1503.1	1484.0	1476.8	1472.7	1468.2	1455.9	1449.9
55°	1678.2	1652.3	1622.4	1603.9	1594.2	1581.8	1561.2	1555.7
57.5°	1862.7	1822.2	1770.4	1747.9	1726.2	1706.0	1683.1	1676.7
60°	2081.3	2021.7	1953.0	1911.4	1887.8	1868.4	1844.8	1843.5
62.5°	2324.9	2230.8	2153.3	2115.8	2098.6	2081.3	2058.8	2061.7
65°	2572.8	2474.6	2401.8	2371.5	2355.3	2341.1	2318.6	2322.0
67.5°	2817.2	2726.9	2647.1	2615.8	2597.9	2579.9	2559.7	2563.1
70°	2992.7	2880.6	2790.7	2721.6	2678.5	2629.8	2598.3	2590.4
72.5°	2942.5	2769.6	2626.8	2489.9	2409.7	2344.4	2300.2	2281.2
75°	2546.7	2310.4	2126.6	1958.7	1864.2	1787.4	1731.4	1696.6
77.5°	1891.2	1625.7	1408.7	1215.2	1062.2	959.6	887.0	840.2
80°	1035.2	787.3	575.6	404.6	297.3	247.0	218.2	204.4
82.5°	322.5	208.1	153.4	132.3	123.0	117.8	109.2	95.3
85°	102.7	90.0	83.6	79.9	76.2	66.3	45.8	41.6
87.5°	39.8	40.9	40.5	38.2	39.0	28.1	22.5	19.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)