

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: P200191

Luminaire Tested: **GAW-AF-01-LED-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAW-AF-01-LED-U-T3
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6504.9 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 59
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



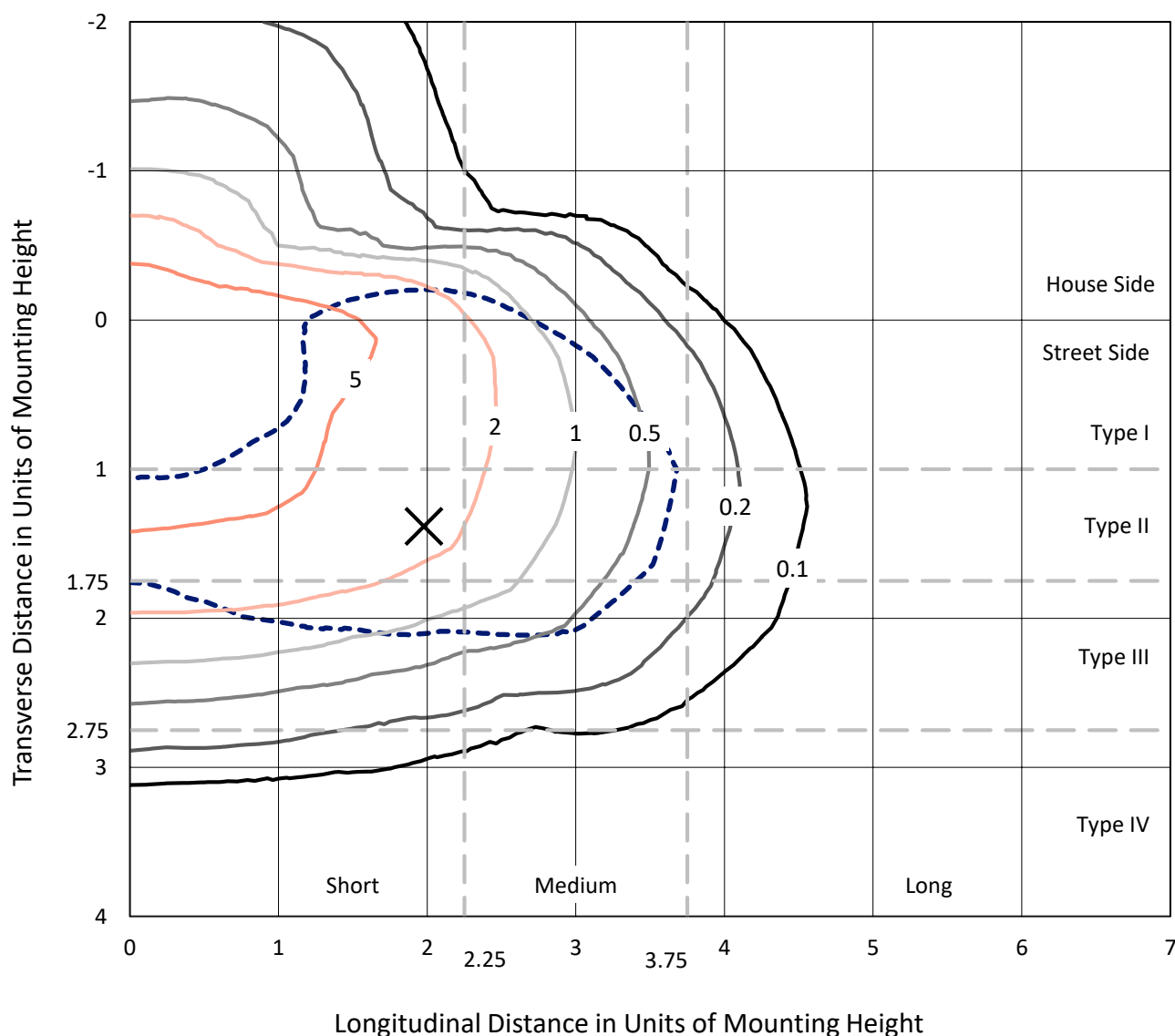
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

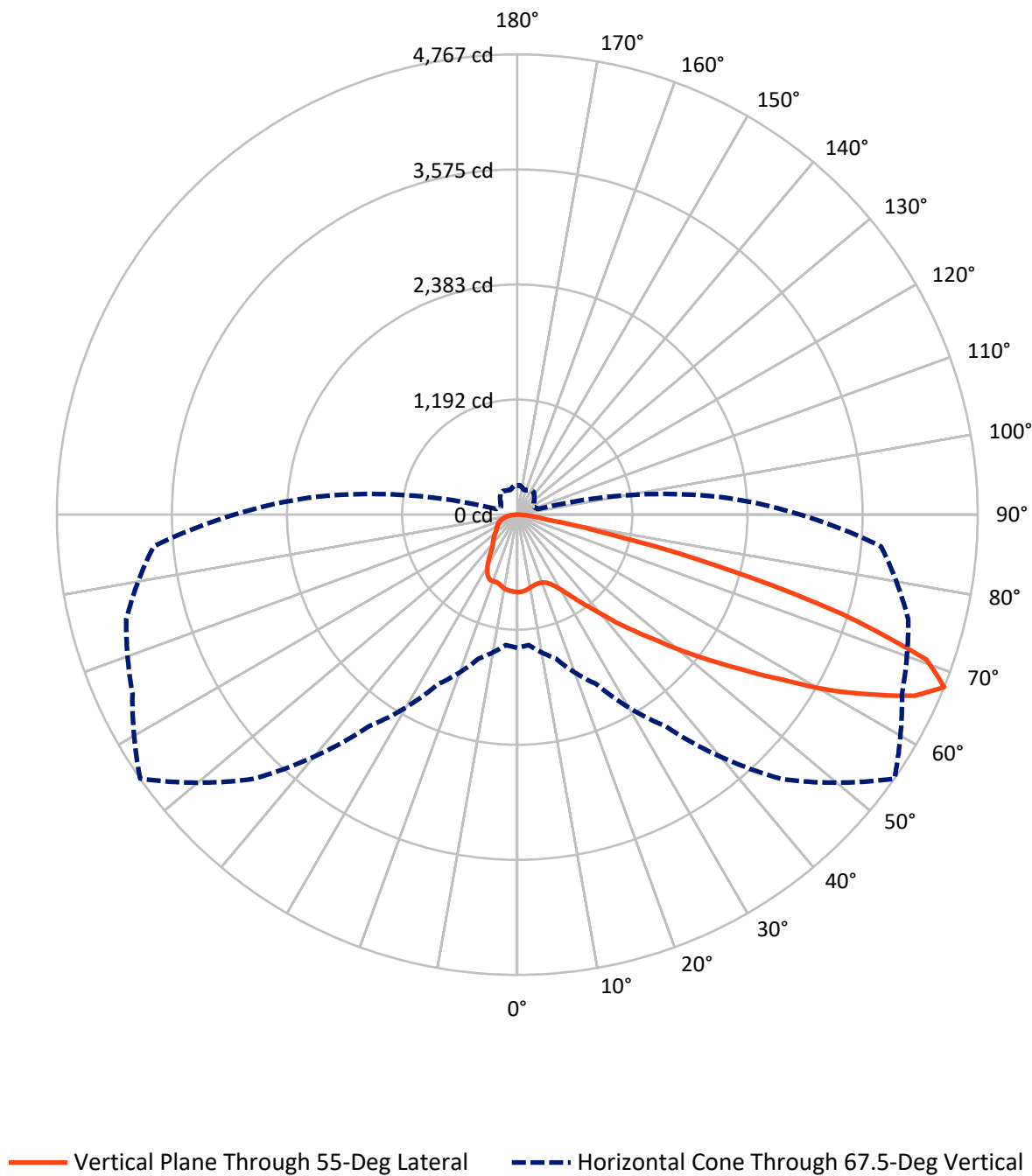


Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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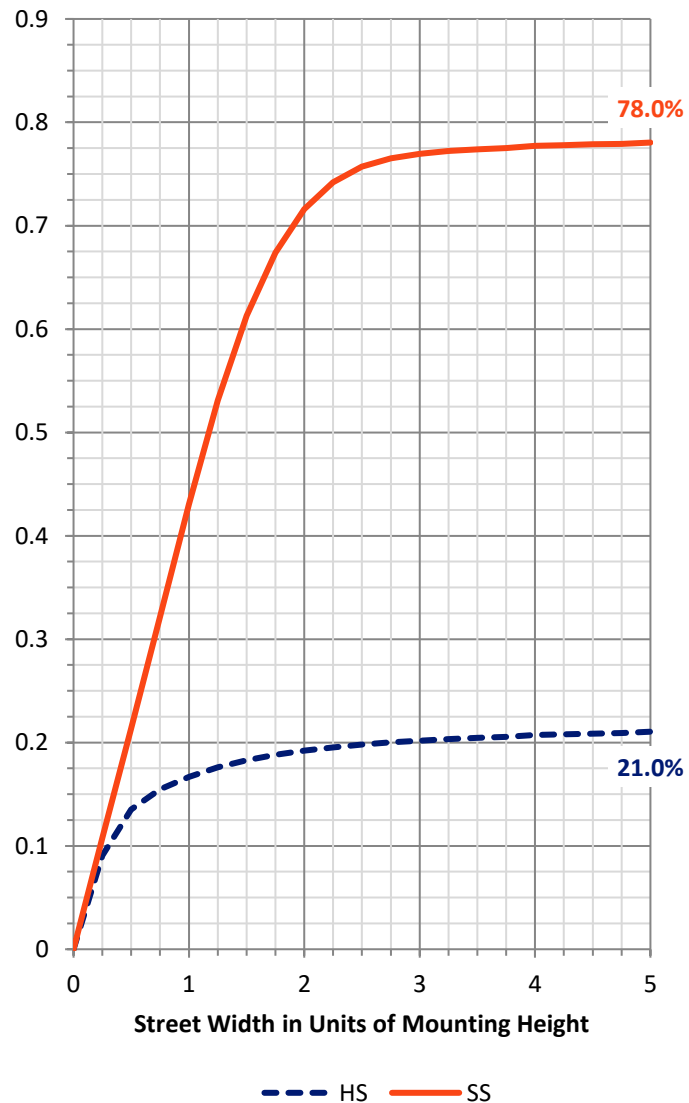
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1405.2	0.0	1405.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	5099.7	0.0	5099.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	6504.9	0.0	6504.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.2
10°-20°	212.0	3.3
20°-30°	355.2	5.5
30°-40°	584.1	9.0
40°-50°	983.2	15.1
50°-60°	1547.5	23.8
60°-70°	1846.8	28.4
70°-80°	793.1	12.2
80°-90°	108.1	1.7
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°	6504.9	100.0
0°-180°	6504.9	100.0

Coefficient of Utilization



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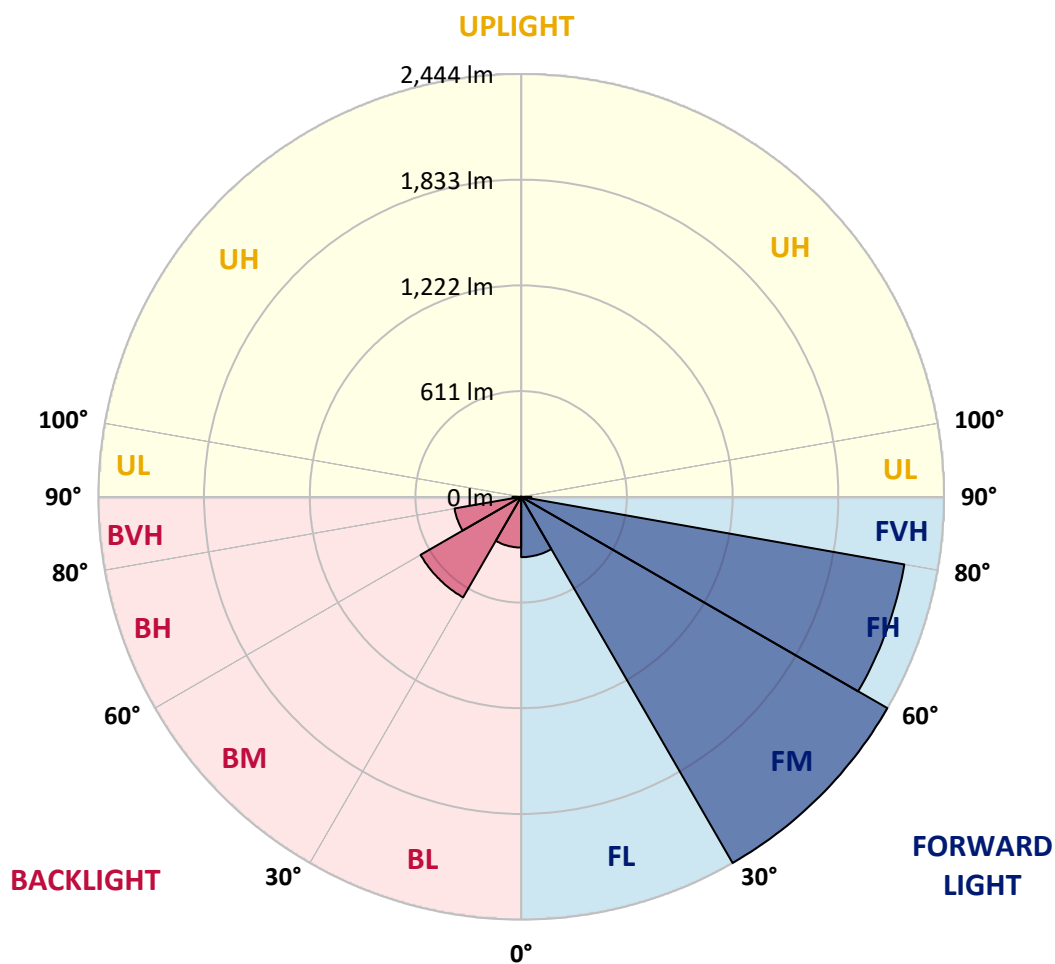
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.7	5.4			
FM	(30°-60°)	2443.7	37.6			
FH	(60°-80°)	2248.8	34.6			G2/5000
FVH	(80°-90°)	58.5	0.9			G1/100
BL	(0°-30°)	293.4	4.5	B1/500		
BM	(30°-60°)	671.1	10.3	B1/1000		
BH	(60°-80°)	391.1	6.0	B1/500		G1/500
BVH	(80°-90°)	49.6	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1
2.5°	795.2	795.5	796.2	798.7	800.9	800.3	800.6	799.3	799.0	797.1	799.0
5°	785.1	786.1	786.4	790.5	793.0	793.6	792.7	791.2	789.2	787.4	788.3
7.5°	762.2	764.8	765.1	770.7	774.8	780.1	780.4	780.7	779.8	778.6	780.4
10°	747.8	748.4	748.1	752.2	755.3	761.3	764.8	770.7	773.2	773.9	775.1
12.5°	746.9	746.2	745.2	745.2	744.3	746.9	753.1	761.6	767.5	769.5	771.0
15°	756.9	756.6	753.4	748.7	742.8	740.8	746.2	755.7	763.5	767.5	769.2
17.5°	779.5	777.6	772.6	761.9	749.0	744.0	744.6	752.5	761.6	766.9	768.5
20°	821.0	821.0	810.3	790.2	767.2	755.3	749.6	754.3	763.1	770.4	772.6
22.5°	892.6	893.2	875.3	842.3	803.7	778.3	764.1	763.1	773.6	781.7	784.2
25°	994.1	991.5	966.5	919.3	860.6	818.5	793.9	788.3	797.1	806.2	809.4
27.5°	1112.3	1103.2	1073.3	1016.4	940.4	878.8	841.1	832.0	840.5	850.8	854.0
30°	1229.1	1219.7	1184.2	1122.0	1037.5	959.5	905.5	890.7	902.7	917.5	919.3
32.5°	1346.0	1346.0	1306.4	1233.8	1141.8	1056.0	991.2	973.6	993.5	1011.4	1015.5
35°	1485.8	1486.4	1448.1	1360.7	1261.8	1171.0	1099.7	1086.8	1116.7	1129.2	1139.0
37.5°	1657.7	1661.2	1611.8	1506.2	1397.9	1302.3	1217.5	1199.9	1229.8	1264.0	1295.4
40°	1843.4	1847.8	1793.4	1663.3	1554.9	1455.0	1363.3	1331.6	1381.2	1446.6	1487.1
42.5°	2020.5	2043.1	1990.8	1856.9	1740.3	1636.9	1543.9	1497.7	1560.0	1658.6	1693.8
45°	2276.7	2292.9	2201.5	2080.3	1970.6	1855.0	1731.9	1683.2	1770.1	1894.6	1901.8
47.5°	2447.2	2435.0	2388.5	2313.1	2243.6	2135.5	1950.2	1896.8	2012.3	2158.8	2118.3
50°	2538.0	2541.8	2535.5	2539.9	2542.4	2474.6	2217.9	2144.7	2282.6	2459.5	2366.2
52.5°	2622.8	2597.8	2618.4	2721.6	2846.0	2820.8	2509.1	2432.8	2572.3	2793.2	2628.2
55°	2621.0	2582.6	2650.2	2832.1	3102.0	3130.9	2836.2	2748.3	2878.6	3151.0	2906.0
57.5°	2528.3	2530.2	2634.2	2872.3	3280.5	3422.5	3215.7	3083.8	3203.5	3513.6	3159.5
60°	2400.8	2418.1	2567.9	2865.7	3423.4	3661.6	3681.4	3445.4	3521.8	3843.2	3369.4
62.5°	2194.9	2213.2	2419.9	2797.3	3401.7	3891.9	4102.4	3855.7	3854.5	4043.0	3431.0
65°	1870.4	1865.0	2082.1	2541.2	3219.8	4062.1	4520.6	4210.5	4105.2	4046.2	3307.2
67.5°	1379.3	1355.4	1541.7	1935.4	2676.2	3871.5	4766.6	4395.2	4190.7	3780.0	2928.9
70°	715.8	691.8	842.7	1130.2	1760.1	3021.6	4494.2	4299.7	4001.9	3168.6	2294.6
72.5°	306.1	302.0	363.2	495.8	851.5	1742.8	3524.0	3721.6	3433.8	2360.9	1577.6
75°	205.8	204.5	227.5	270.2	383.0	707.3	2205.3	2641.8	2512.3	1463.8	887.3
77.5°	161.5	159.9	173.4	194.2	248.2	279.0	978.7	1418.2	1312.7	637.2	388.3
80°	126.3	125.0	133.5	144.8	178.5	175.9	322.0	564.3	436.7	244.1	188.8
82.5°	99.6	99.6	106.5	106.8	126.6	120.0	168.1	248.5	218.1	142.3	115.6
85°	91.1	91.1	98.3	79.8	82.7	75.7	104.3	147.3	138.2	58.4	50.2
87.5°	45.8	44.6	82.7	70.7	44.9	40.2	50.9	71.3	76.6	32.3	25.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1	802.1
2.5°	798.3	798.0	798.7	799.0	801.5	805.0	806.5	808.7	810.0	809.4
5°	788.9	789.5	792.1	793.9	798.3	804.0	807.1	809.7	811.9	810.9
7.5°	781.1	782.7	786.4	788.0	790.5	792.1	791.8	792.7	794.6	792.4
10°	776.7	778.6	781.4	779.2	773.2	764.8	756.9	752.8	754.0	752.5
12.5°	772.3	774.8	772.6	762.2	745.5	734.6	728.6	729.3	732.0	732.7
15°	769.8	770.7	761.3	741.8	724.9	723.2	726.4	725.8	726.1	726.1
17.5°	769.8	767.2	749.6	730.2	722.9	720.2	710.3	698.2	692.7	690.9
20°	773.9	767.2	745.9	733.0	717.3	693.2	667.4	644.8	634.6	631.9
22.5°	786.1	774.8	756.6	734.3	689.7	649.2	608.2	581.2	563.0	559.9
25°	810.9	798.3	777.6	717.6	645.7	587.9	541.3	511.2	493.0	490.4
27.5°	854.3	846.1	788.9	680.9	587.2	525.3	482.3	459.0	445.5	444.6
30°	919.6	915.5	783.3	626.5	515.3	464.7	444.0	430.5	420.4	420.0
32.5°	1024.0	990.9	764.8	560.2	449.6	421.7	413.2	405.0	397.1	397.1
35°	1158.1	1051.9	729.6	489.2	409.7	397.7	387.1	374.2	363.9	363.2
37.5°	1315.8	1089.6	666.4	432.0	390.9	381.8	366.0	346.9	328.7	325.5
40°	1475.1	1100.9	577.5	396.8	378.9	365.7	346.6	324.0	306.4	305.4
42.5°	1621.3	1079.2	483.2	372.7	366.9	349.3	329.3	309.1	295.3	295.0
45°	1743.7	1023.1	404.1	349.6	354.5	334.6	316.7	300.3	289.7	287.4
47.5°	1859.1	943.5	348.4	325.5	341.9	326.4	311.4	295.9	285.6	284.1
50°	1992.9	857.7	309.4	302.0	330.8	323.7	315.8	299.7	282.4	280.6
52.5°	2155.1	783.6	279.0	281.2	322.3	327.3	327.0	310.5	280.3	277.7
55°	2336.0	701.2	256.0	264.2	318.9	334.3	329.9	320.5	282.1	278.3
57.5°	2514.2	605.2	240.1	251.3	313.8	333.7	316.4	302.9	286.5	281.2
60°	2647.7	476.0	227.8	240.1	302.9	323.3	301.7	283.7	285.6	281.5
62.5°	2656.5	368.0	213.0	230.3	286.2	312.9	291.8	275.3	289.7	285.9
65°	2500.3	278.0	198.9	218.7	268.3	306.4	282.4	270.5	298.2	294.1
67.5°	2105.1	223.7	186.9	206.7	250.4	292.5	273.9	266.1	305.7	298.5
70°	1519.7	190.7	175.3	192.3	234.4	276.8	266.5	258.3	285.3	273.9
72.5°	935.7	165.3	162.1	173.1	222.1	260.4	255.1	243.5	257.0	247.9
75°	467.2	143.3	147.3	154.3	204.9	241.9	236.3	224.6	226.5	224.6
77.5°	223.7	122.5	130.1	135.4	182.5	220.9	214.9	203.0	200.8	201.1
80°	141.7	102.4	109.7	113.4	163.1	196.4	190.4	178.5	203.6	188.8
82.5°	88.6	83.3	85.1	92.1	142.0	170.9	163.1	152.4	183.5	145.2
85°	49.0	58.1	60.7	66.6	109.4	142.9	135.1	121.6	109.0	107.1
87.5°	29.3	34.6	35.5	39.9	73.6	103.3	91.5	86.7	71.9	71.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)