

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: P381373

Luminaire Tested: **USSL-PA1B-730-U-T2U-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P381373
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-PA1B-730-U-T2U-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 930mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6277 lumens
Efficiency: N/A
Efficacy: 84.8 lumens/watt
Luminous Opening: Rectangular (W 1.1' x L: 1.12' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 74
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



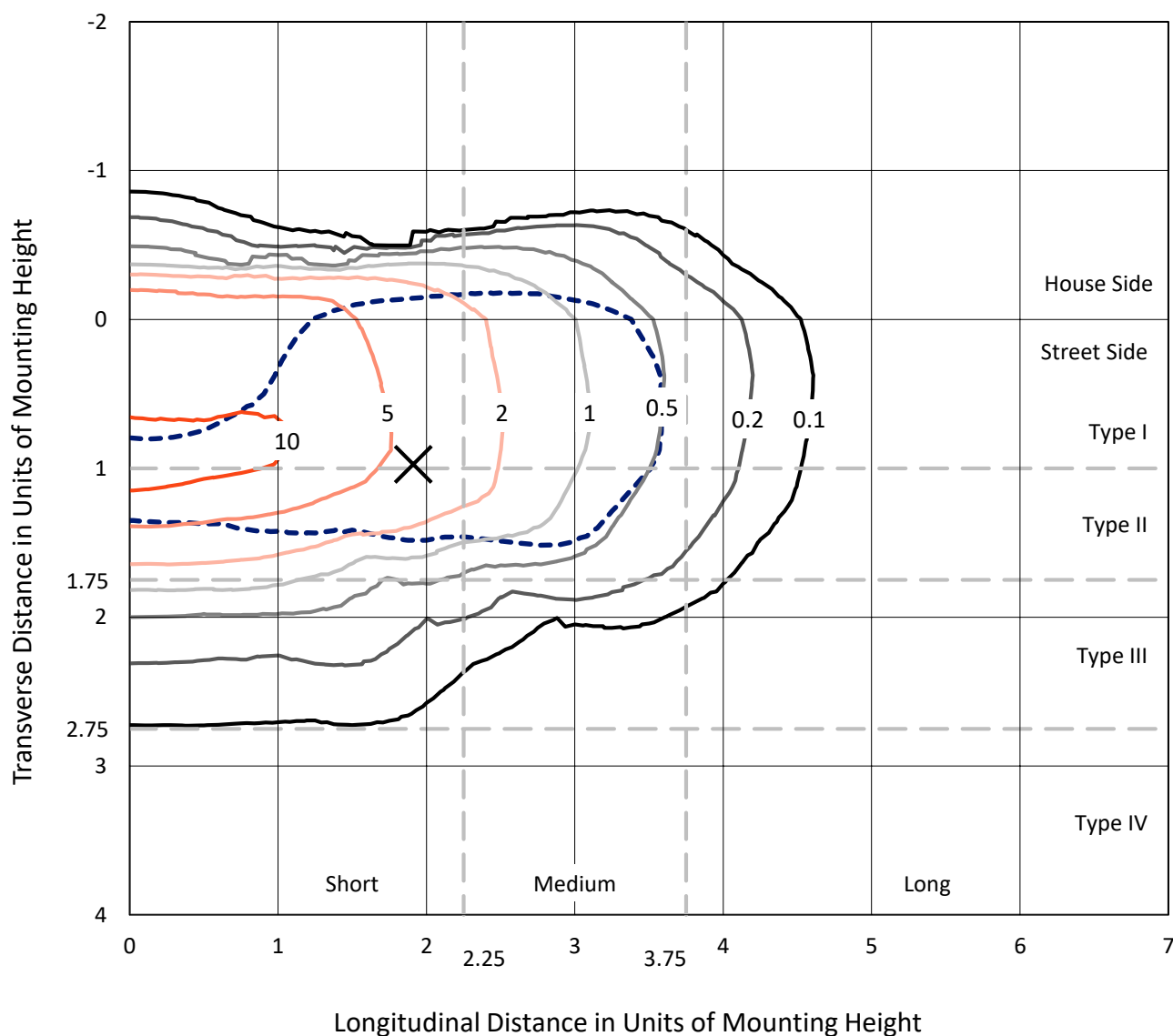
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

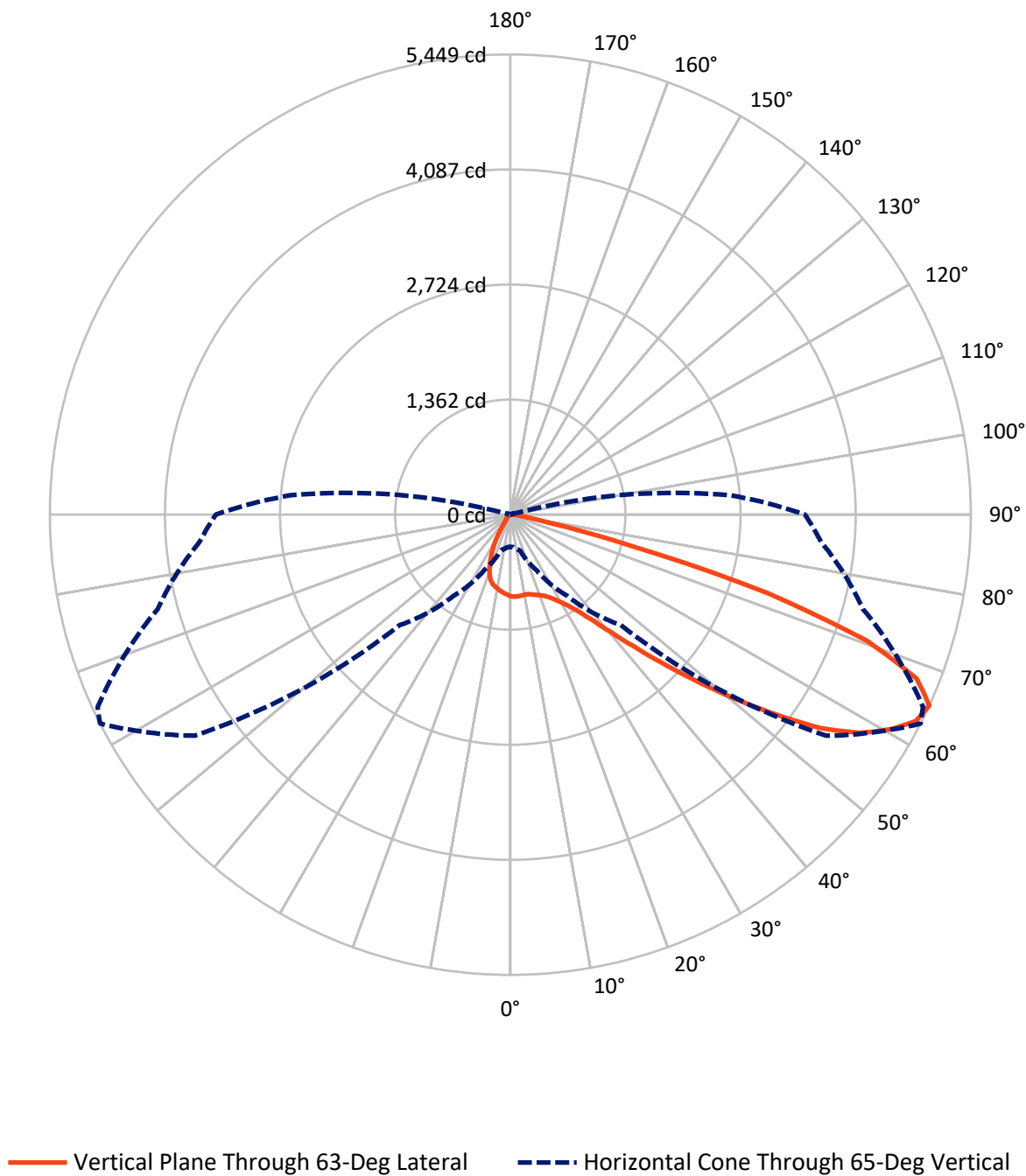


Based on 10 foot mounting height. Maximum calculated value = 13.5 fc
Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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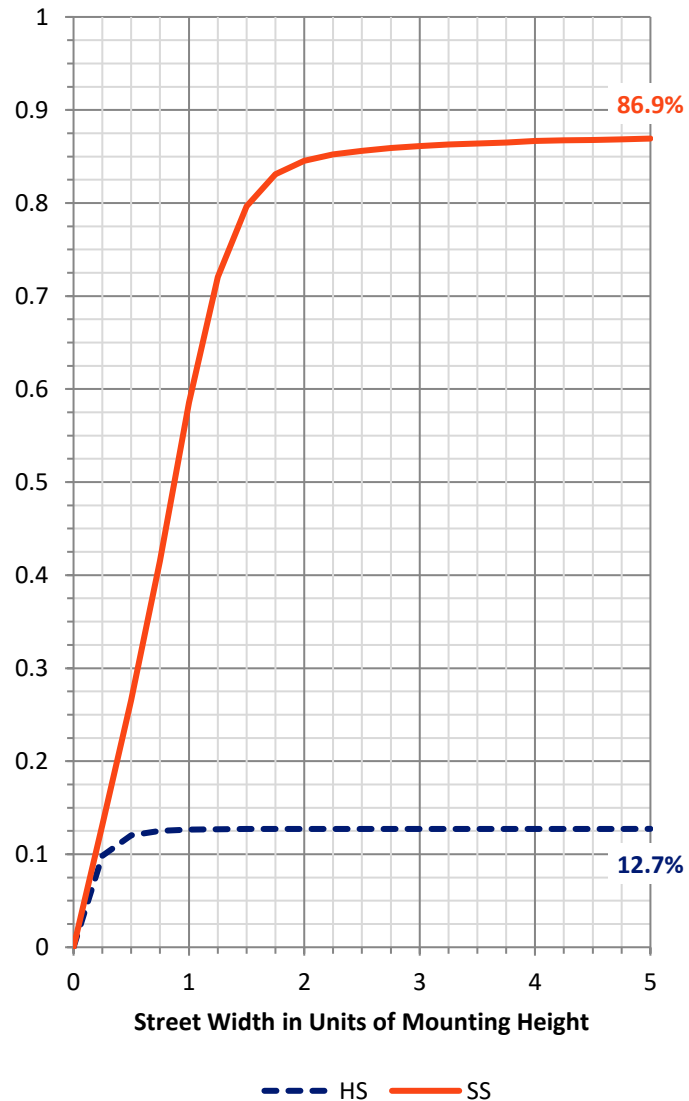
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	807.8	0.0	807.8
	% Fixture	12.9	0.0	12.9
Street Side	Lumens	5469.2	0.0	5469.2
	% Fixture	87.1	0.0	87.1
Total	Lumens	6277.0	0.0	6277.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.2	1.4
10°-20°	217.7	3.5
20°-30°	322.6	5.1
30°-40°	599.0	9.5
40°-50°	1269.0	20.2
50°-60°	1754.7	28.0
60°-70°	1404.7	22.4
70°-80°	583.6	9.3
80°-90°	37.5	0.6
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°	6277.0	100.0
0°-180°	6277.0	100.0

Coefficient of Utilization



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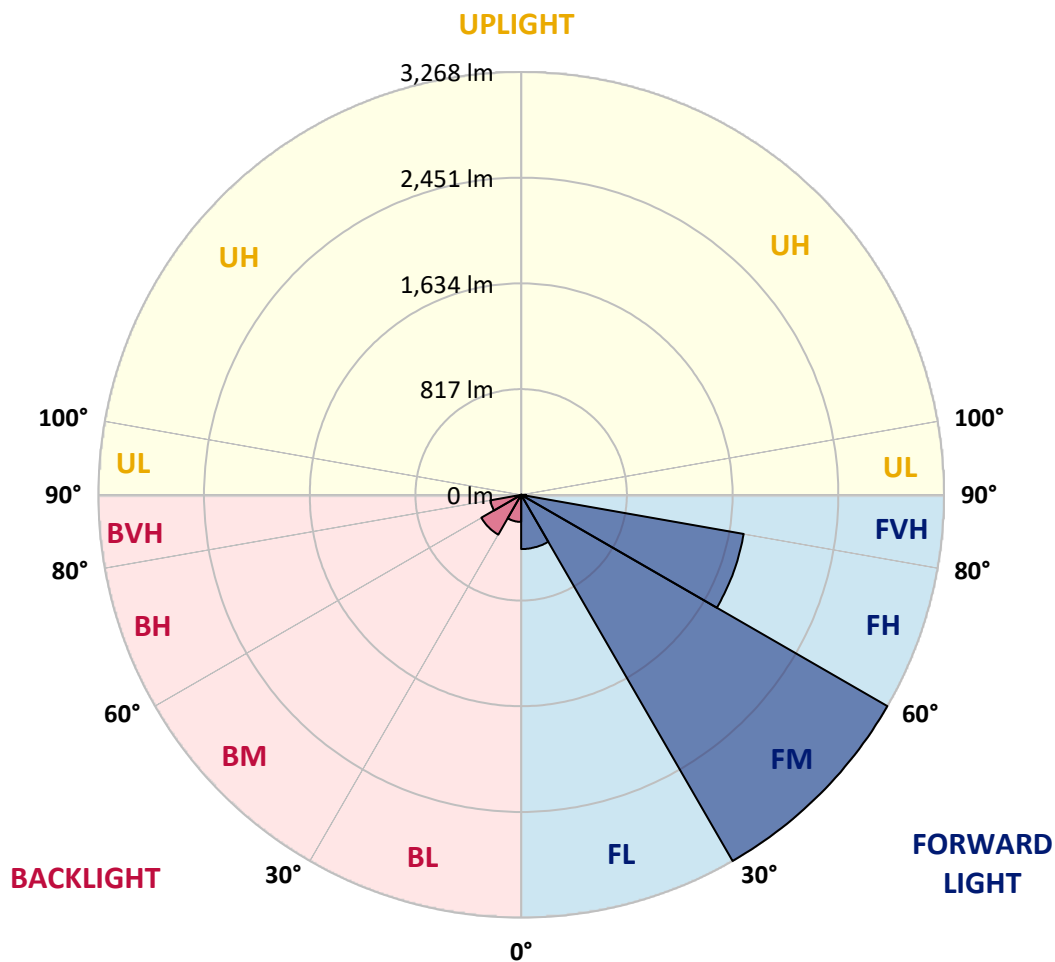
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	419.2	6.7			
FM	(30°-60°)	3267.8	52.1			
FH	(60°-80°)	1746.4	27.8			G1/1800
FVH	(80°-90°)	35.8	0.6			G1/100
BL	(0°-30°)	209.4	3.3	B1/500		
BM	(30°-60°)	354.9	5.7	B1/1000		
BH	(60°-80°)	241.9	3.9	B1/500		G1/500
BVH	(80°-90°)	1.7	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0
2.5°	983.6	981.2	978.8	977.6	977.6	976.5	971.7	970.5	968.2	965.8	963.4
5°	974.1	970.5	969.3	970.5	971.7	974.1	971.7	971.7	969.3	967.0	962.2
7.5°	950.4	948.0	949.2	952.8	953.9	962.2	963.4	967.0	967.0	964.6	961.1
10°	921.9	920.8	920.8	926.7	932.6	944.5	952.8	962.2	963.4	963.4	957.5
12.5°	900.6	899.4	903.0	910.1	921.9	937.3	951.6	965.8	968.2	969.3	959.9
15°	887.6	887.6	892.3	906.5	923.1	944.5	961.1	980.0	982.4	981.2	968.2
17.5°	875.7	876.9	886.4	910.1	929.1	957.5	977.6	999.0	1000.2	999.0	977.6
20°	871.0	873.4	887.6	918.4	939.7	971.7	997.8	1019.1	1020.3	1015.6	987.1
22.5°	884.0	885.2	903.0	936.2	956.3	991.9	1025.0	1045.2	1046.4	1039.3	1001.3
25°	929.1	929.1	944.5	972.9	990.7	1026.2	1061.8	1085.5	1085.5	1077.2	1033.3
27.5°	1034.5	1025.0	1021.5	1029.8	1035.7	1073.6	1111.5	1141.2	1140.0	1128.1	1074.8
30°	1238.3	1214.6	1176.7	1134.1	1112.7	1138.8	1174.4	1212.3	1211.1	1192.1	1125.8
32.5°	1580.8	1546.4	1456.4	1343.8	1252.6	1222.9	1256.1	1297.6	1298.8	1276.3	1207.5
35°	2060.7	2006.2	1845.1	1688.7	1480.1	1367.5	1377.0	1422.0	1436.2	1424.4	1345.0
37.5°	2522.9	2473.1	2319.1	2102.2	1819.0	1589.1	1548.8	1587.9	1604.5	1604.5	1520.4
40°	2988.6	2930.6	2794.3	2576.2	2277.6	1935.1	1790.6	1822.6	1840.3	1843.9	1733.7
42.5°	3361.9	3324.0	3219.7	3050.2	2770.6	2541.9	2139.0	2121.2	2137.8	2124.7	1981.4
45°	3620.2	3590.6	3518.3	3454.3	3318.1	3203.1	2604.7	2485.0	2495.6	2450.6	2259.8
47.5°	3673.6	3640.4	3625.0	3713.8	3811.0	3839.5	3177.0	2917.5	2906.9	2807.3	2549.0
50°	3441.3	3444.8	3501.7	3755.3	4160.6	4416.6	3840.6	3405.7	3366.6	3145.0	2818.0
52.5°	2940.0	2996.9	3140.3	3551.5	4267.3	4836.1	4504.3	3923.6	3863.2	3473.3	3019.4
55°	2300.1	2373.6	2609.4	3082.2	4044.5	5023.3	5063.6	4461.6	4324.1	3719.8	3175.8
57.5°	1710.0	1732.5	2007.4	2438.8	3517.1	4839.6	5350.4	4876.4	4699.8	3916.5	3331.1
60°	1065.3	1079.6	1369.9	1856.9	2663.9	4160.6	5350.4	5161.9	4993.7	4093.1	3473.3
62.5°	662.4	667.2	776.2	1272.7	1810.7	3085.8	5128.8	5383.5	5248.4	4219.9	3595.3
65°	381.6	386.3	437.3	719.3	1177.9	1847.4	4562.3	5448.7	5388.3	4320.6	3690.1
67.5°	278.5	280.8	301.0	404.1	770.3	949.2	3427.1	5186.8	5262.7	4370.3	3687.8
70°	241.7	245.3	271.4	315.2	555.8	583.0	1744.3	4479.4	4691.5	4299.2	3577.6
72.5°	186.0	190.8	229.9	296.3	407.6	419.5	631.6	3187.7	3508.8	3854.9	3275.4
75°	128.0	132.7	171.8	244.1	336.5	314.0	347.2	1467.1	1851.0	2585.7	2493.3
77.5°	81.8	83.0	107.8	177.8	290.3	222.8	238.2	478.7	671.9	1169.6	1176.7
80°	54.5	55.7	66.4	114.9	199.1	206.2	146.9	221.6	242.9	341.3	237.0
82.5°	33.2	33.2	45.0	72.3	120.9	170.6	96.0	116.1	124.4	131.5	61.6
85°	13.0	13.0	27.3	47.4	75.8	79.4	60.4	67.5	71.1	77.0	28.4
87.5°	3.6	3.6	15.4	26.1	33.2	36.7	36.7	33.2	35.6	43.8	14.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0	967.0
2.5°	962.2	958.7	953.9	949.2	944.5	940.9	937.3	937.3	935.0	931.4	929.1
5°	959.9	953.9	943.3	935.0	921.9	912.5	905.4	899.4	895.9	887.6	886.4
7.5°	956.3	949.2	933.8	917.2	895.9	879.3	862.7	850.8	839.0	829.5	827.1
10°	950.4	942.1	919.6	895.9	866.2	835.4	796.3	751.3	709.8	686.1	679.0
12.5°	950.4	939.7	910.1	878.1	835.4	759.6	660.1	560.5	483.5	449.1	439.6
15°	956.3	942.1	903.0	859.1	779.7	625.7	464.5	333.0	248.9	222.8	216.9
17.5°	962.2	942.1	892.3	833.1	677.8	453.9	264.3	175.4	148.1	142.2	142.2
20°	964.6	939.7	878.1	784.5	541.6	282.0	157.6	131.5	120.9	117.3	117.3
22.5°	974.1	940.9	867.4	714.6	393.4	165.9	124.4	110.2	99.5	96.0	96.0
25°	997.8	955.1	869.8	625.7	252.4	125.6	105.5	91.2	80.6	75.8	75.8
27.5°	1035.7	987.1	882.8	522.6	158.8	107.8	88.9	73.5	65.2	60.4	60.4
30°	1078.4	1022.7	888.8	404.1	118.5	91.2	72.3	58.1	52.1	48.6	47.4
32.5°	1153.0	1084.3	884.0	277.3	97.2	77.0	58.1	46.2	41.5	40.3	40.3
35°	1272.7	1192.1	874.5	174.2	80.6	61.6	46.2	37.9	34.4	33.2	32.0
37.5°	1435.1	1349.7	846.1	114.9	66.4	48.6	37.9	32.0	28.4	27.3	27.3
40°	1633.0	1529.9	791.6	87.7	56.9	39.1	32.0	27.3	24.9	23.7	23.7
42.5°	1859.3	1730.1	705.1	75.8	47.4	33.2	27.3	22.5	21.3	20.1	20.1
45°	2107.0	1939.9	585.4	67.5	40.3	27.3	22.5	20.1	17.8	17.8	16.6
47.5°	2370.0	2150.8	450.3	59.3	34.4	23.7	20.1	16.6	15.4	14.2	14.2
50°	2623.6	2339.2	316.4	51.0	28.4	20.1	16.6	14.2	13.0	11.9	11.9
52.5°	2802.6	2453.0	224.0	43.8	23.7	17.8	13.0	10.7	9.5	9.5	9.5
55°	2946.0	2524.1	156.4	36.7	20.1	15.4	10.7	8.3	8.3	7.1	7.1
57.5°	3081.0	2570.3	114.9	30.8	16.6	11.9	8.3	5.9	5.9	4.7	4.7
60°	3220.9	2595.2	87.7	24.9	14.2	9.5	5.9	4.7	3.6	3.6	3.6
62.5°	3361.9	2610.6	67.5	20.1	11.9	7.1	4.7	3.6	2.4	1.2	1.2
65°	3485.1	2615.3	52.1	15.4	9.5	4.7	3.6	1.2	0.0	0.0	0.0
67.5°	3521.9	2560.8	40.3	11.9	7.1	3.6	2.4	0.0	0.0	0.0	0.0
70°	3422.3	2416.3	30.8	9.5	5.9	2.4	1.2	0.0	0.0	0.0	0.0
72.5°	3037.2	2026.4	23.7	5.9	4.7	2.4	1.2	0.0	0.0	0.0	0.0
75°	2173.3	1080.7	16.6	4.7	3.6	1.2	0.0	0.0	0.0	0.0	0.0
77.5°	1000.2	418.3	11.9	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0
80°	195.5	104.3	4.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.0	17.8	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.4	5.9	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	2.4	1.2	0.0	0.0	0.0	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)