

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: P639404

Luminaire Tested: **USSL-M-PA6D-730-U-T2U-HSS**

Issue Date: 1/25/2023

Test Information

Test Method: LM-79-08
Report Number: P639404
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2207-719-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: USSL-M-PA6D-730-U-T2U-HSS
Description: PREVAIL M AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K LIGHT ENGINES AND TYPE II U OPTICS WITH HOUSE SIDE
SHIELD, BRONZE PAINTED FINISH
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43023 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 544
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

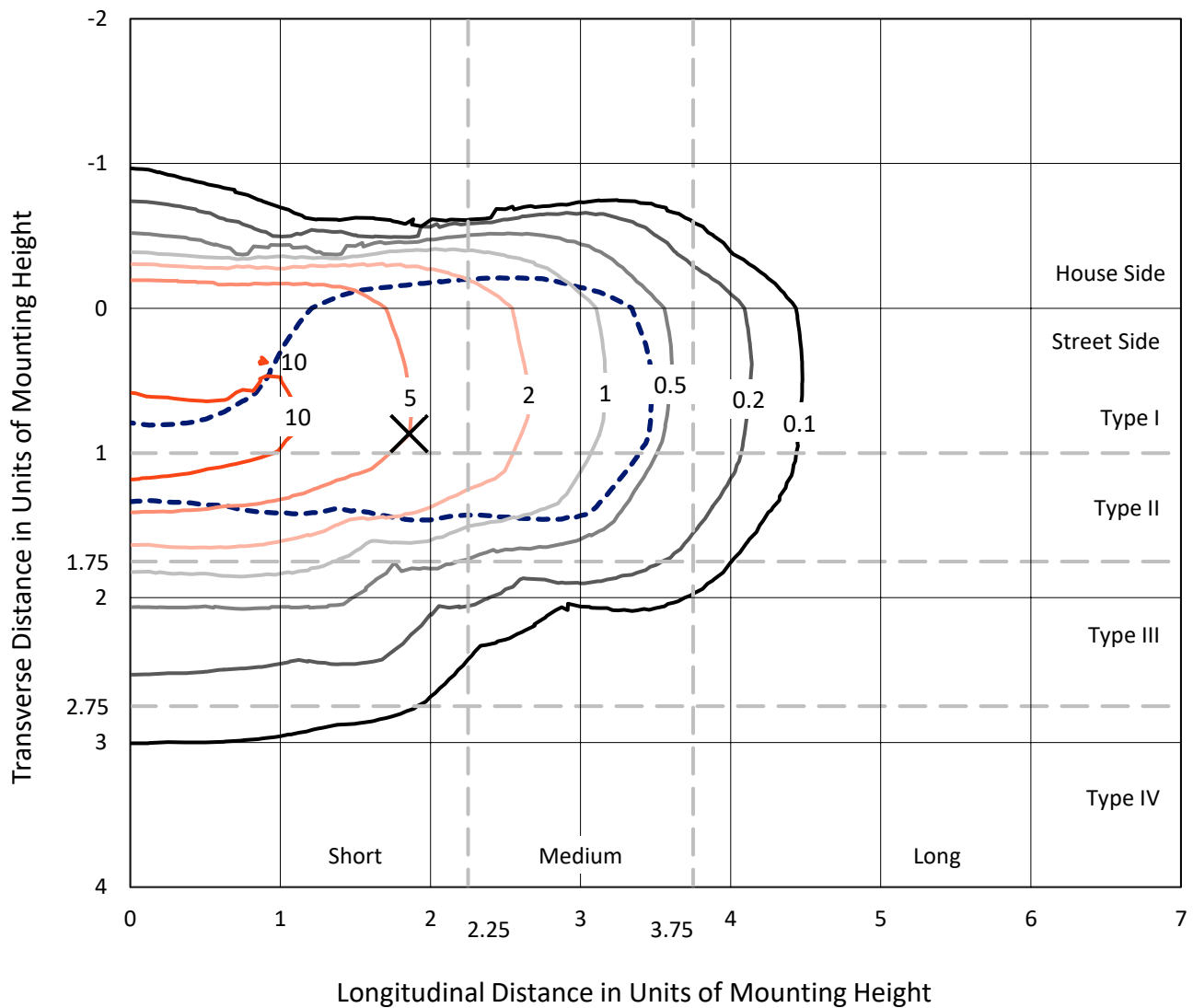


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

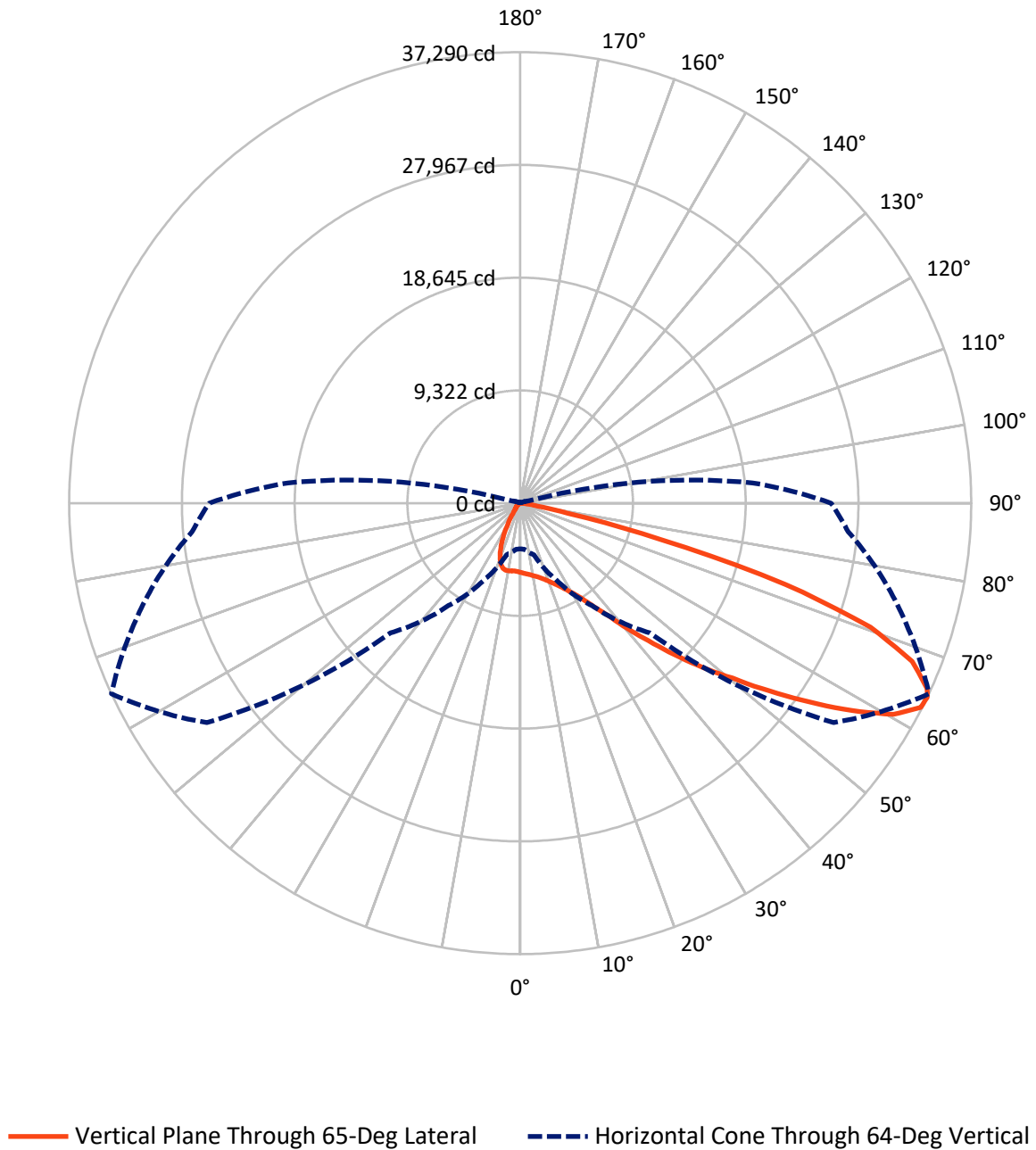


Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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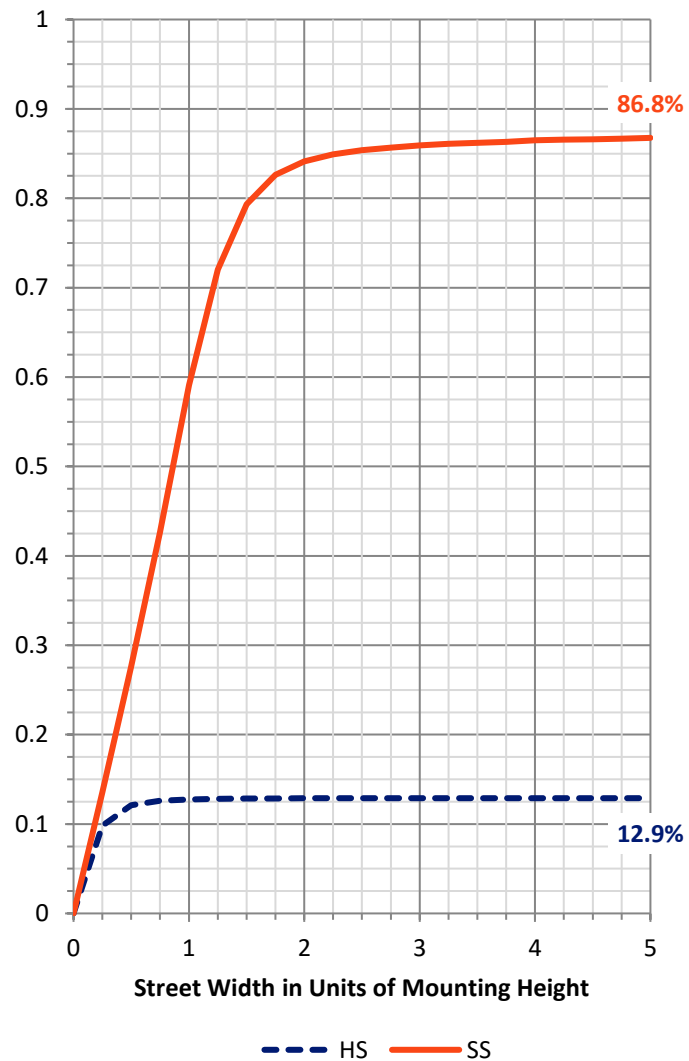
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5609.7	0.0	5609.7
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	37413.3	0.0	37413.3
	% Fixture	87.0	0.0	87.0
Total	Lumens	43023.0	0.0	43023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.6	1.3
10°-20°	1438.3	3.3
20°-30°	2311.6	5.4
30°-40°	4213.0	9.8
40°-50°	8584.9	20.0
50°-60°	11841.9	27.5
60°-70°	9960.1	23.2
70°-80°	3901.3	9.1
80°-90°	231.4	0.5
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°	43023.0	100.0
0°-180°	43023.0	100.0

Coefficient of Utilization



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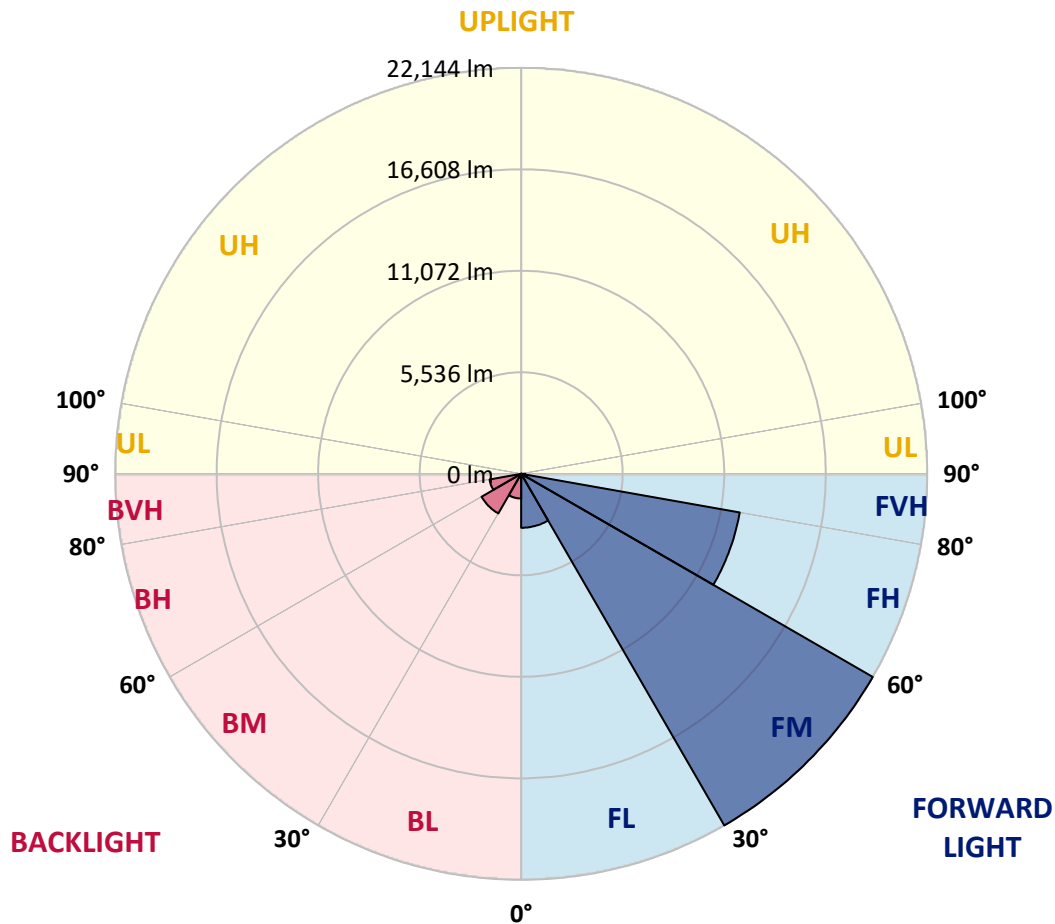
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2942.3	6.8			
FM	(30°-60°)	22144.1	51.5			
FH	(60°-80°)	12106.4	28.1			G5
FVH	(80°-90°)	220.5	0.5			G2/225
BL	(0°-30°)	1348.3	3.1	B3/2500		
BM	(30°-60°)	2495.6	5.8	B2/2500		
BH	(60°-80°)	1755.0	4.1	B3/2500		G3/2500
BVH	(80°-90°)	10.9	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8
2.5°	5954.7	5901.2	5895.2	5887.8	5865.5	5850.7	5825.4	5803.1	5770.4	5740.7	5721.4
5°	6039.4	5979.9	5978.5	5979.9	5960.6	5942.8	5914.6	5877.4	5825.4	5771.9	5737.7
7.5°	6051.3	5996.3	6000.7	6006.7	6003.7	6003.7	5997.8	5974.0	5926.4	5853.6	5812.0
10°	6106.3	6057.2	6054.2	6051.3	6046.8	6060.2	6092.9	6103.3	6058.7	5984.4	5927.9
12.5°	6235.5	6182.0	6179.1	6168.7	6158.3	6168.7	6216.2	6244.5	6216.2	6127.1	6061.7
15°	6410.9	6354.4	6348.5	6338.1	6330.7	6350.0	6388.6	6418.3	6385.6	6286.1	6204.3
17.5°	6611.5	6541.7	6558.0	6549.1	6550.6	6564.0	6610.0	6639.8	6598.1	6479.3	6376.7
20°	6832.9	6760.1	6791.3	6803.2	6798.8	6828.5	6887.9	6914.7	6846.3	6688.8	6564.0
22.5°	7085.6	7011.3	7066.3	7109.4	7069.2	7133.1	7216.4	7232.7	7145.0	6928.1	6767.6
25°	7414.0	7326.3	7390.2	7439.3	7357.5	7458.6	7581.9	7614.6	7513.6	7256.5	7044.0
27.5°	7938.6	7819.7	7827.1	7815.2	7714.2	7828.6	8006.9	8079.8	7960.9	7648.8	7393.2
30°	9114.1	8909.0	8663.8	8333.9	8143.7	8302.7	8541.9	8669.7	8528.6	8102.0	7779.6
32.5°	11222.8	10898.8	10392.1	9435.1	8785.6	8876.3	9207.7	9405.3	9276.0	8772.3	8357.7
35°	14252.9	13777.3	12869.4	11612.1	10038.4	9647.6	10062.2	10500.6	10375.7	9827.4	9307.3
37.5°	17855.1	17238.4	15997.5	14291.5	12008.9	10818.6	11202.0	11738.5	11805.3	11170.8	10549.6
40°	20882.2	20241.7	19189.6	17375.1	14835.4	12760.9	12711.8	13622.8	13544.0	12772.8	12026.8
42.5°	23096.5	22464.9	21775.4	20374.0	18382.7	15948.5	14738.8	15544.3	15443.2	14453.5	13590.1
45°	24379.0	23768.2	23374.4	22808.2	21680.3	20498.8	17482.1	17855.1	17471.7	16213.0	15177.2
47.5°	24740.1	24111.5	24071.4	24389.4	24650.9	24859.0	20959.5	20293.8	19555.2	17877.4	16779.2
50°	23536.4	23153.0	23708.7	25046.2	26900.8	28129.8	24876.8	22742.8	21710.0	19680.0	18393.1
52.5°	19987.6	19932.6	21469.2	24224.4	28138.7	30938.5	28672.2	25798.2	23869.2	21384.5	19981.7
55°	15300.6	15285.7	17302.3	20969.9	27443.2	31858.4	31885.1	29039.3	25923.0	22996.9	21503.4
57.5°	10421.8	10591.2	13313.7	16557.8	23722.1	31021.7	33858.6	32360.6	28007.9	24532.0	22937.5
60°	6513.4	6581.8	8880.8	12612.3	18125.6	27006.3	34418.9	35459.1	29809.1	25801.1	24212.5
62.5°	4528.1	4550.3	5540.1	9032.3	12774.3	19791.5	33368.2	37182.9	31463.1	26795.3	25249.8
64°	3782.0	3822.2	4428.5	6939.9	10335.6	15168.3	31632.5	37289.9	32255.1	27226.3	25713.5
65°	3358.5	3416.5	3875.7	5740.7	9023.4	12120.4	29653.0	36976.4	32686.1	27434.3	25908.1
67.5°	2640.7	2627.4	2856.2	3691.4	6514.9	6620.4	22424.8	34956.8	33099.2	27473.0	25937.9
70°	2309.4	2325.7	2434.2	2667.5	4586.0	4164.0	11613.6	30724.5	31645.8	26413.4	24793.6
72.5°	1804.1	1808.5	2065.6	2309.4	3036.0	2765.6	4991.7	22916.7	26279.6	22834.9	21117.0
75°	1199.3	1255.7	1533.6	2007.7	2077.5	1875.4	2177.1	11985.1	15927.7	15264.9	13582.7
77.5°	805.4	833.7	1020.9	1483.1	1854.6	1191.8	1206.7	4012.4	6583.3	5899.7	5144.8
80°	511.2	530.5	671.7	1028.4	1435.5	867.9	711.8	1426.6	1850.2	1229.0	1000.1
82.5°	347.7	368.5	448.8	741.5	919.9	781.7	425.0	661.3	725.2	321.0	242.2
85°	156.0	215.5	316.5	493.4	598.9	404.2	261.5	329.9	398.3	148.6	83.2
87.5°	29.7	44.6	184.3	266.0	179.8	96.6	127.8	124.8	175.4	59.4	26.7
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°	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8	5725.8
2.5°	5706.5	5688.7	5661.9	5633.7	5602.5	5587.6	5580.2	5568.3	5565.3	5507.4
5°	5716.9	5672.3	5621.8	5568.3	5511.8	5479.1	5455.4	5425.6	5412.3	5357.3
7.5°	5780.8	5708.0	5632.2	5541.6	5425.6	5293.4	5118.0	5018.5	4939.7	4895.1
10°	5890.8	5786.8	5670.8	5471.7	5143.3	4733.1	4291.8	3996.0	3841.5	3826.6
12.5°	6008.2	5870.0	5681.2	5217.6	4493.9	3762.7	3095.5	2701.7	2517.4	2510.0
15°	6137.5	5963.6	5592.1	4688.5	3584.4	2654.1	1997.3	1657.0	1490.5	1481.6
17.5°	6293.5	6063.2	5352.8	3941.1	2588.7	1686.7	1257.2	1090.8	1041.7	1035.8
20°	6464.4	6143.4	4936.7	3098.5	1725.3	1147.2	965.9	879.8	842.6	836.7
22.5°	6645.7	6174.6	4392.8	2266.3	1188.9	918.4	798.0	716.3	677.6	671.7
25°	6883.5	6155.3	3743.4	1563.3	940.7	765.3	645.0	576.6	539.4	536.5
27.5°	7200.0	6079.5	3004.8	1119.0	798.0	633.1	520.1	457.7	433.9	431.0
30°	7534.4	5847.7	2282.6	881.2	673.2	517.2	419.1	373.0	355.2	352.2
32.5°	7986.1	5513.3	1636.2	726.7	558.8	422.0	343.3	307.6	295.7	294.2
35°	8796.0	5214.6	1108.6	598.9	456.2	346.3	286.8	261.5	255.6	255.6
37.5°	9892.8	4915.9	806.9	500.8	371.5	288.3	245.2	228.9	227.4	227.4
40°	11161.9	4556.3	643.5	422.0	310.6	246.7	212.5	200.6	203.6	203.6
42.5°	12445.8	4071.8	552.8	358.1	266.0	214.0	185.8	173.9	179.8	181.3
45°	13701.6	3428.4	487.4	307.6	233.3	185.8	160.5	150.1	157.5	157.5
47.5°	14823.5	2771.5	429.5	267.5	205.1	162.0	135.2	124.8	130.8	133.7
50°	15930.7	2126.6	376.0	236.3	184.3	139.7	112.9	104.0	110.0	112.9
52.5°	16908.5	1720.9	328.4	211.0	165.0	118.9	93.6	84.7	92.1	93.6
55°	17758.5	1402.8	283.8	188.7	144.1	99.6	75.8	69.8	77.3	78.8
57.5°	18477.8	1160.6	245.2	167.9	126.3	84.7	63.9	59.4	65.4	68.4
60°	18977.1	943.7	208.0	148.6	108.5	71.3	53.5	49.0	53.5	53.5
62.5°	19247.6	765.3	178.3	130.8	93.6	62.4	46.1	37.2	40.1	40.1
64°	19280.3	679.1	162.0	120.4	84.7	58.0	40.1	29.7	31.2	31.2
65°	19247.6	625.6	148.6	112.9	80.2	55.0	37.2	23.8	23.8	25.3
67.5°	18819.6	514.2	121.9	95.1	66.9	46.1	26.7	14.9	14.9	14.9
70°	17653.0	395.3	101.1	77.3	55.0	38.6	20.8	10.4	8.9	8.9
72.5°	14172.6	272.0	80.2	58.0	43.1	31.2	14.9	5.9	3.0	3.0
75°	6632.3	173.9	56.5	38.6	29.7	23.8	10.4	3.0	0.0	0.0
77.5°	1940.8	99.6	35.7	25.3	20.8	16.3	8.9	1.5	0.0	0.0
80°	395.3	40.1	23.8	19.3	16.3	13.4	7.4	1.5	0.0	0.0
82.5°	66.9	20.8	19.3	14.9	13.4	10.4	5.9	0.0	0.0	0.0
85°	25.3	14.9	16.3	13.4	11.9	8.9	4.5	0.0	0.0	0.0
87.5°	14.9	14.9	14.9	13.4	10.4	5.9	3.0	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

(END OF REPORT)