

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: P266324

Luminaire Tested: **UTLD-AF24-40-D-U-5WQ-A-7027**

Issue Date: 5/28/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P266324  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-14)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 5/28/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-AF24-40-D-U-5WQ-A-7027  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) 70 CRI, 2700K, 500mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS  
AND REFRACTOR PANELS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3299.8 lumens  
Efficiency: N/A  
Efficacy: 82.5 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')  
IES Classification: Type V - Short - Non-Cutoff  
BUG Rating: B1 - U3 - G2

Input Watts (W): 40  
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

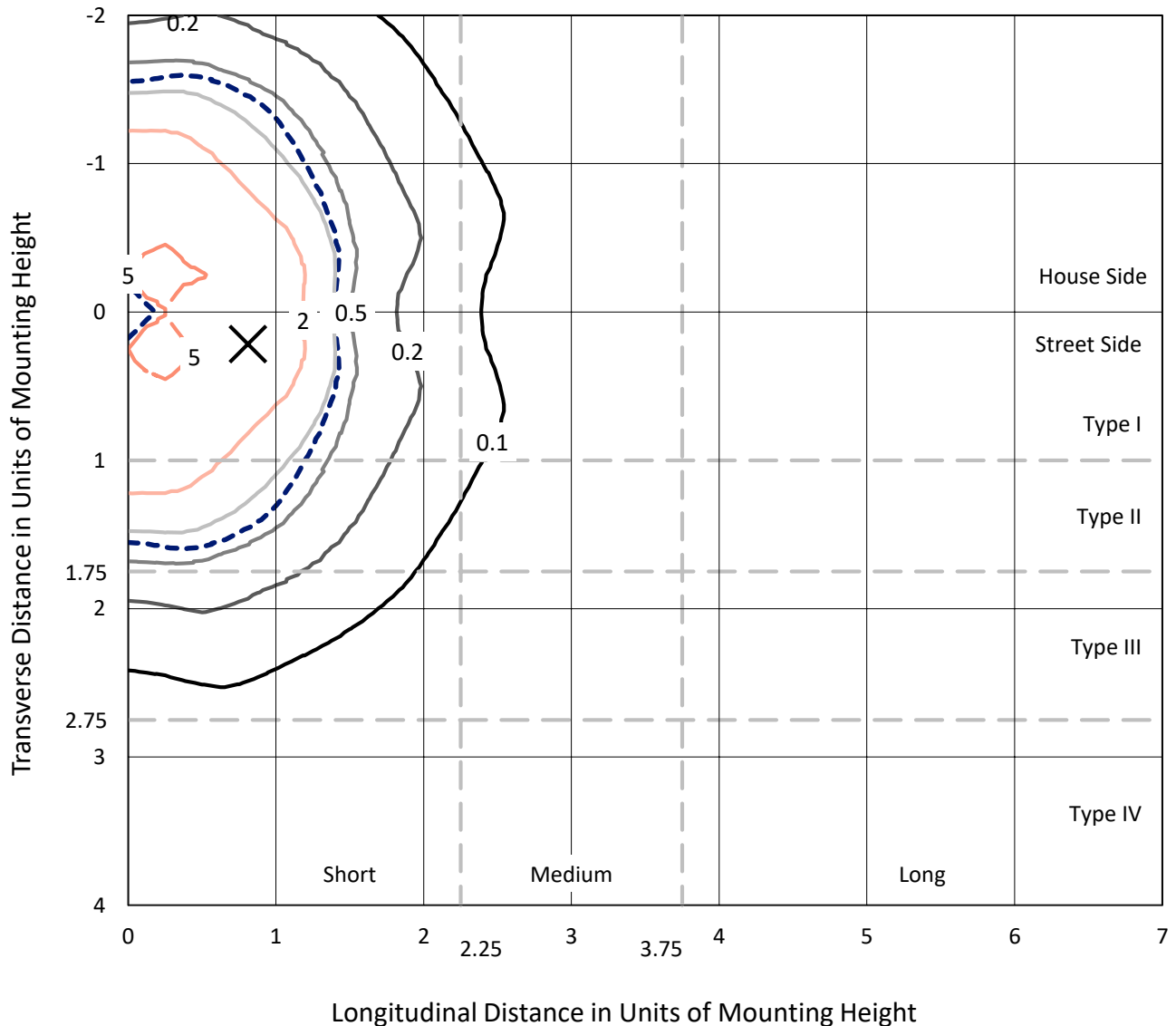


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### Iso-Footcandle Lines of Horizontal Illumination

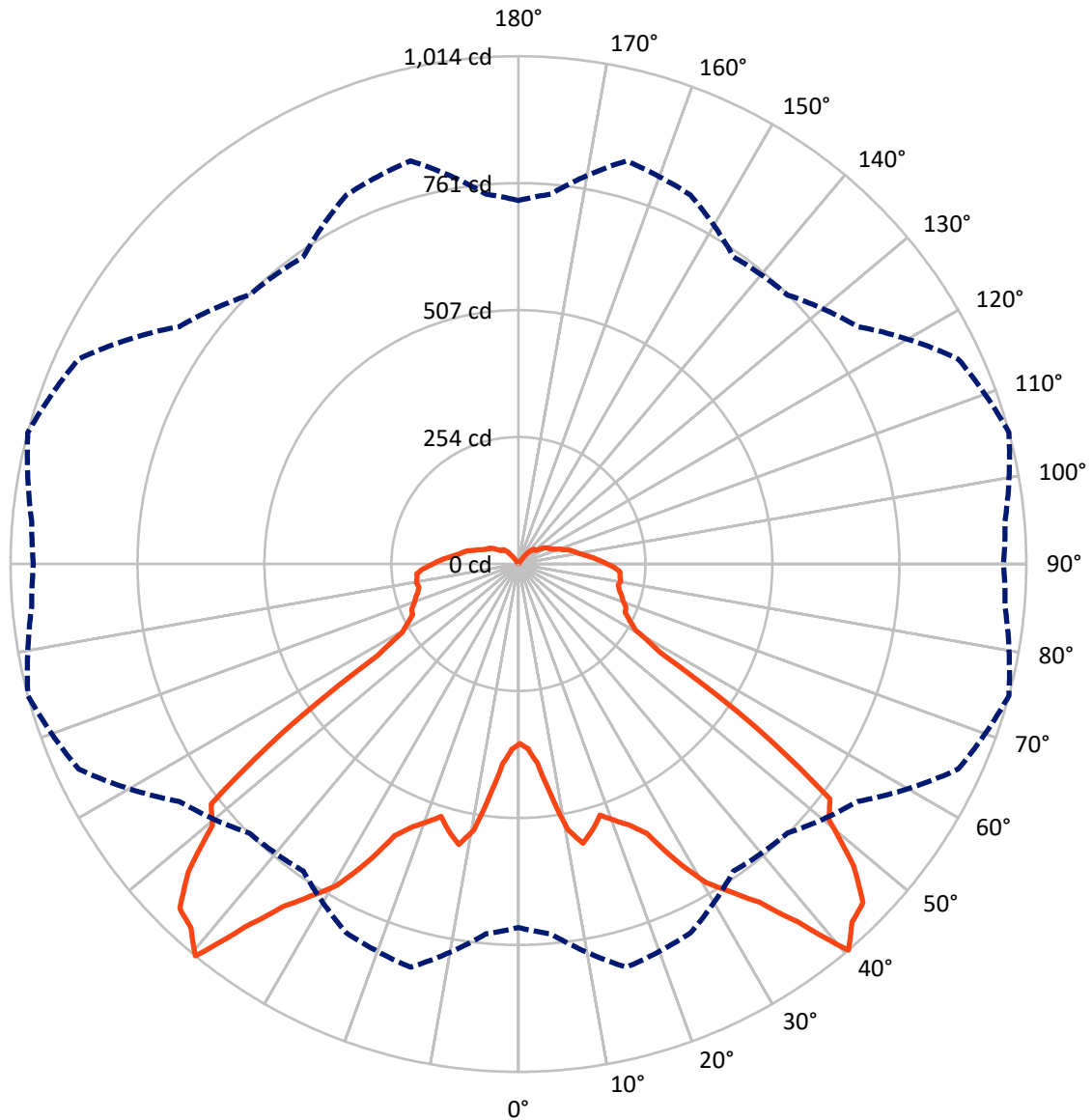
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 fc  
 Type V - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 40-Deg Vertical

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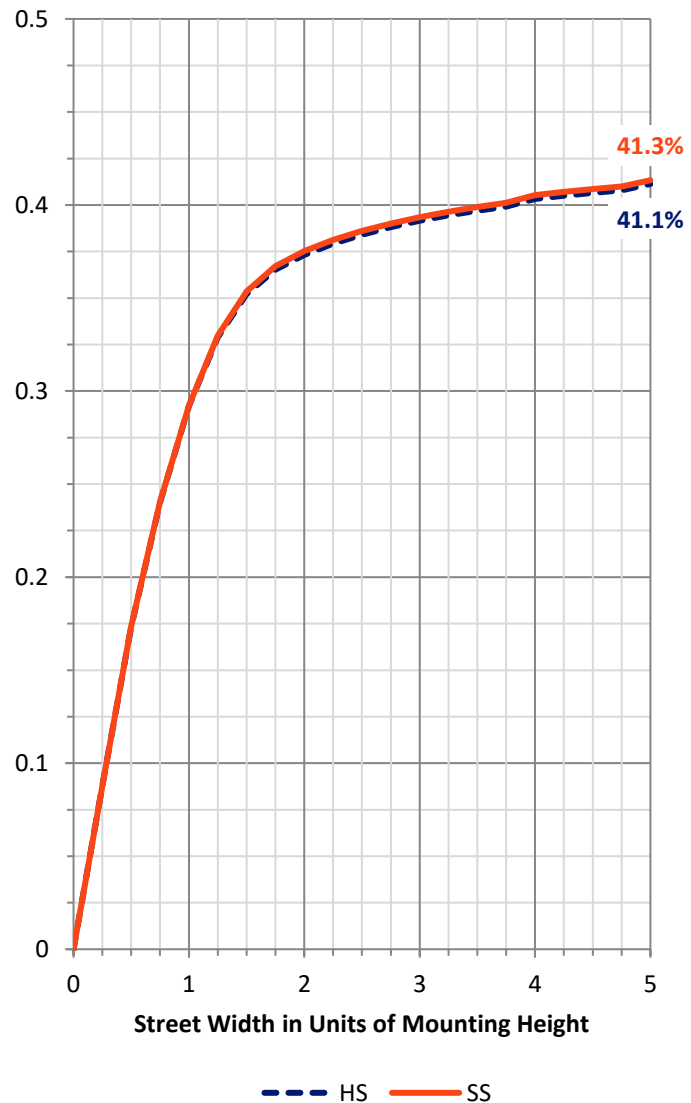
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1426.4	223.5	1649.9
	% Fixture	43.2	6.8	50.0
<b>Street Side</b>	Lumens	1426.4	223.5	1649.9
	% Fixture	43.2	6.8	50.0
<b>Total</b>	Lumens	2852.7	447.1	3299.8
	% Fixture	86.5	13.5	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	42.3	1.3
10°-20°	171.9	5.2
20°-30°	307.0	9.3
30°-40°	486.0	14.7
40°-50°	652.2	19.8
50°-60°	519.1	15.7
60°-70°	238.2	7.2
70°-80°	217.2	6.6
80°-90°	218.8	6.6
90°-100°	168.2	5.1
100°-110°	117.5	3.6
110°-120°	77.6	2.4
120°-130°	48.5	1.5
130°-140°	28.4	0.9
140°-150°	6.5	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2852.7	86.5
0°-180°	3299.8	100.0



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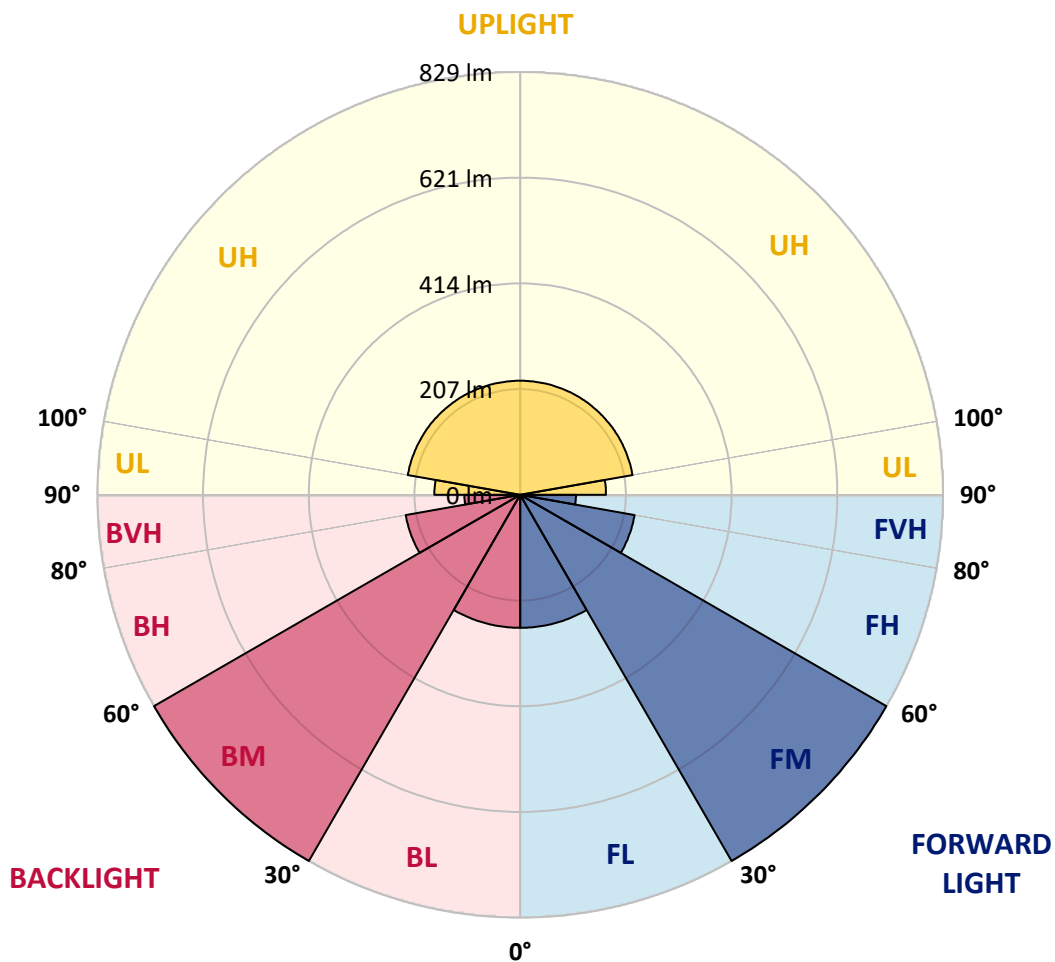
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	260.6	7.9			
FM (30°-60°)	828.6	25.1			
FH (60°-80°)	227.7	6.9			G0/660
FVH (80°-90°)	109.4	3.3			G2/225
BL (0°-30°)	260.6	7.9	B1/500		
BM (30°-60°)	828.6	25.1	B1/1000		
BH (60°-80°)	227.7	6.9	B1/500		G0/660
BVH (80°-90°)	109.4	3.3			G2/225
UL (90°-100°)	168.2	5.1		U3/500	
UH (100°-180°)	223.5	6.8		U3/500	

**BUG Rating: B1-U3-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6	358.6
2.5°	368.2	368.2	368.2	367.3	368.2	369.2	370.0	370.0	369.6	368.2	367.3
5°	394.1	394.1	393.6	394.5	394.5	392.7	393.6	396.8	399.8	397.7	396.8
7.5°	457.0	455.7	452.6	450.0	446.8	446.8	453.5	457.3	464.5	465.3	463.2
10°	520.3	522.0	523.7	523.7	531.3	539.6	545.4	543.6	538.3	534.3	531.6
12.5°	538.8	540.1	555.4	594.0	622.6	645.9	626.2	596.3	572.5	557.2	555.4
15°	552.7	556.3	575.6	624.0	695.6	715.0	674.1	598.0	551.9	529.9	525.1
17.5°	566.8	570.8	603.3	673.2	729.9	725.0	675.7	594.5	527.2	498.3	494.7
20°	554.6	558.9	604.6	698.3	739.6	716.2	699.2	622.6	546.2	512.8	508.8
22.5°	559.4	563.7	609.9	700.9	726.3	727.6	701.2	655.7	565.9	527.8	521.6
25°	568.2	571.6	628.8	720.6	721.1	717.6	704.4	679.3	595.8	559.4	554.1
27.5°	568.2	571.2	635.5	712.3	717.0	709.2	725.9	735.2	670.9	638.4	639.8
30°	593.6	595.3	661.7	711.4	700.4	706.5	753.6	781.6	737.8	685.4	685.0
32.5°	643.2	651.6	721.5	741.7	698.6	704.4	760.5	809.8	781.3	718.5	711.4
35°	707.0	709.2	773.4	768.1	711.4	708.4	777.4	854.2	830.0	768.1	765.9
37.5°	727.6	730.7	807.1	793.2	726.8	729.5	805.1	908.2	907.4	857.7	841.9
40°	725.9	741.3	833.5	812.8	748.7	759.7	826.5	968.9	1014.1	975.5	968.5
42.5°	856.9	864.8	918.7	844.0	768.9	768.9	835.3	957.1	977.3	903.3	889.0
45°	870.5	870.0	929.3	869.6	774.2	756.3	804.2	911.8	964.5	915.7	894.2
47.5°	842.3	853.3	927.1	855.0	764.5	720.3	750.5	859.9	900.8	825.6	808.5
50°	812.0	820.3	876.6	788.7	716.7	685.0	707.9	786.9	803.3	712.7	699.5
52.5°	729.0	729.9	796.6	727.2	674.8	642.4	660.9	734.3	778.7	692.1	682.8
55°	617.9	629.6	714.4	671.5	625.7	597.6	601.1	613.5	574.2	444.8	414.4
57.5°	472.4	487.7	586.7	588.7	553.6	508.8	459.7	389.3	335.2	215.4	207.0
60°	321.7	334.8	409.4	428.0	442.1	390.7	318.1	277.7	269.3	186.8	180.6
62.5°	199.1	210.1	279.9	286.5	317.2	285.1	252.2	239.8	249.5	178.5	174.0
65°	184.2	191.6	243.0	233.3	240.7	238.9	224.5	222.3	234.2	174.0	170.9
67.5°	178.0	184.2	224.9	218.0	221.1	223.7	213.5	215.4	231.6	177.5	174.0
70°	174.9	181.5	219.2	214.4	217.5	220.2	213.9	211.3	221.9	178.9	174.0
72.5°	172.7	179.8	210.5	207.4	215.8	222.8	216.6	210.9	215.4	179.8	174.9
75°	168.7	175.8	202.6	204.4	217.1	225.5	217.5	208.8	208.2	178.0	172.2
77.5°	167.9	175.8	194.3	205.3	217.5	228.4	222.3	209.6	203.8	178.9	171.8
80°	166.5	175.3	198.2	212.2	221.1	226.7	224.0	215.4	207.0	185.4	178.0
82.5°	174.0	181.8	201.7	217.5	220.2	219.2	219.2	213.5	204.4	185.9	178.9
85°	183.3	189.5	210.1	219.2	217.1	211.3	208.8	208.2	203.8	190.7	185.1
87.5°	181.5	185.9	200.0	208.8	209.6	198.2	198.6	196.0	191.1	178.0	173.2
90°	169.6	172.7	188.6	197.7	192.0	182.7	178.9	173.6	174.0	162.1	158.6
92.5°	161.7	165.2	176.6	181.8	181.0	165.6	163.0	162.6	160.0	149.8	147.6
95°	151.2	153.3	163.0	170.0	165.6	149.8	147.2	144.9	145.4	141.6	141.9
97.5°	148.5	150.2	157.4	155.9	148.5	134.8	133.0	132.3	131.8	129.6	129.1
100°	142.8	142.8	144.9	141.0	132.3	122.2	119.6	120.0	120.5	117.8	116.9
102.5°	133.0	133.6	134.4	131.0	122.6	112.1	109.5	111.6	112.5	111.6	111.2
105°	126.1	125.7	126.1	122.2	112.9	103.8	100.6	102.9	105.0	105.5	104.6
107.5°	115.5	115.2	115.2	111.2	104.2	96.7	94.1	92.7	92.7	92.7	92.7
110°	100.3	100.6	100.6	98.9	95.3	91.0	87.5	84.8	85.7	85.2	86.1



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	93.2	93.2	92.3	91.0	87.5	83.1	79.1	77.3	76.4	76.0	76.4
115°	85.7	86.1	83.5	82.6	79.1	76.4	72.6	71.1	71.1	72.6	73.4
117.5°	79.1	79.1	77.3	75.2	72.0	69.9	68.1	67.3	67.3	69.0	69.0
120°	71.7	71.7	69.9	67.3	65.9	62.8	63.3	62.8	64.1	66.4	66.7
122.5°	63.3	63.3	61.5	59.3	60.1	58.0	57.1	55.3	58.0	60.6	61.1
125°	56.2	55.9	54.1	51.5	54.9	54.9	52.7	47.0	50.6	52.7	53.2
127.5°	51.5	50.9	48.8	46.2	50.6	53.2	48.2	42.6	44.3	46.6	47.5
130°	48.8	48.2	46.2	43.1	44.3	50.6	43.5	40.9	43.1	45.3	45.3
132.5°	47.0	46.6	44.8	41.7	39.5	46.2	39.0	40.0	43.1	45.3	45.3
135°	43.5	43.5	41.3	36.9	31.6	33.9	31.6	36.0	39.5	41.3	41.7
137.5°	37.4	37.4	35.7	31.6	25.5	24.2	25.1	30.7	34.8	36.6	36.6
140°	29.5	28.9	27.3	23.7	16.7	11.4	16.3	23.3	27.3	28.9	28.9
142.5°	20.7	20.2	18.1	14.6	8.9	4.0	8.9	14.1	18.1	19.8	20.2
145°	13.1	13.1	11.4	8.9	4.4	1.3	3.6	8.4	11.0	12.8	12.8
147.5°	8.4	8.4	7.0	4.9	1.3	0.9	1.3	4.0	6.6	7.9	8.4
150°	4.9	4.9	3.6	1.7	0.9	0.4	0.9	1.3	2.6	4.0	4.0
152.5°	1.7	1.3	0.9	0.9	0.4	0.4	0.4	0.9	0.9	1.3	1.3
155°	0.9	0.9	0.9	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
157.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
160°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.0
162.5°	0.4	0.4	0.4	0.4	0.4	0.0	0.0	0.4	0.4	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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)