

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: P266258

Luminaire Tested: **UTLD-AF24-20-D-U-5WQ-CL-7027**

Issue Date: 5/28/2020

Test Information

Test Method: LM-79-08
Report Number: P266258
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1710-388-43)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 5/28/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: UTLD-AF24-20-D-U-5WQ-CL-7027
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE
(1) 70 CRI, 2700K, 260mA LIGHT ENGINE WITH 24 LEDS AND TYPE V WIDE OPTICS
AND CLEAR LENS PANELS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2086.6 lumens
Efficiency: N/A
Efficacy: 99.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.21' x L: 1.21' x H: 0.96')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B2 - U2 - G1

Input Watts (W): 21
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

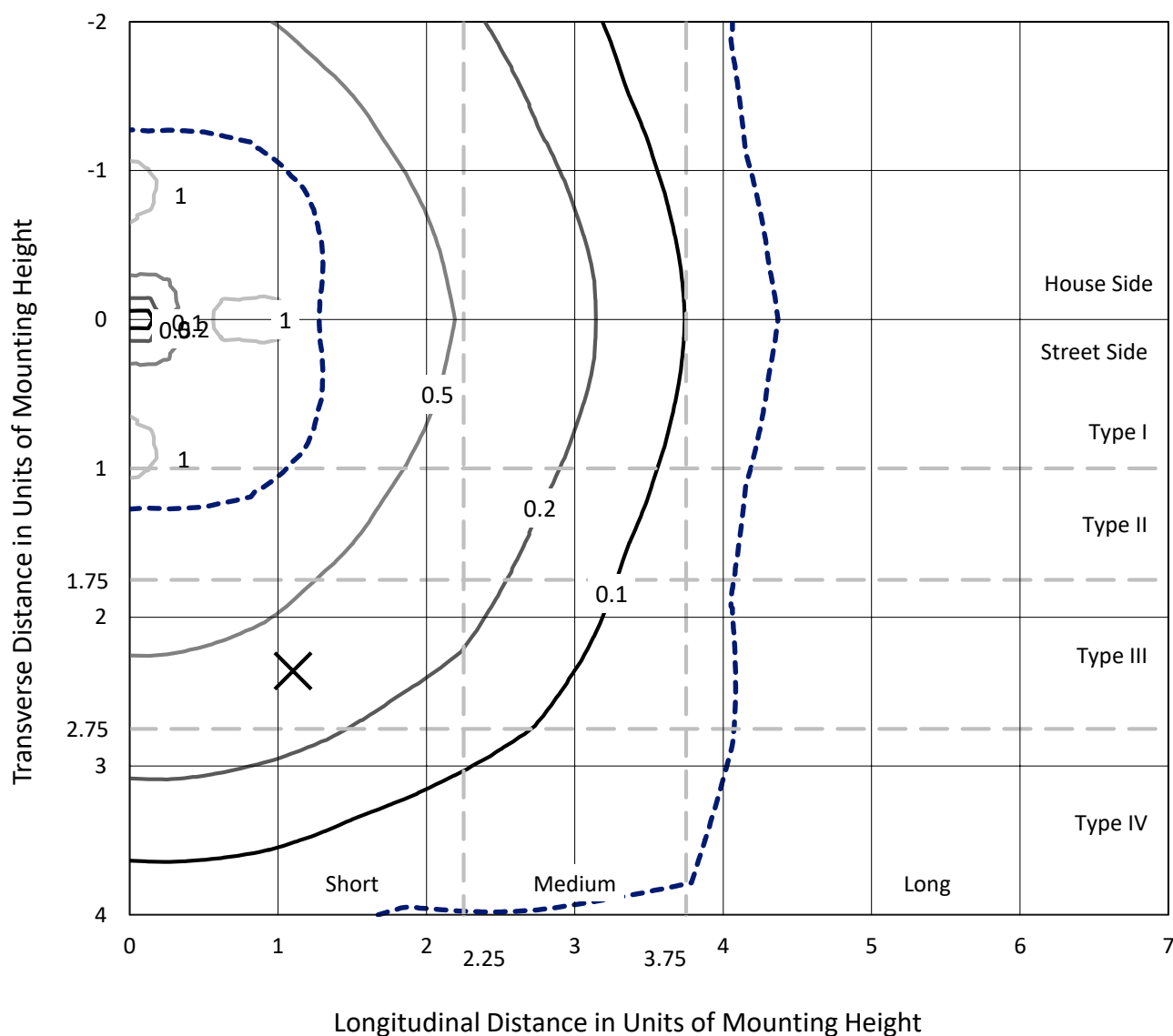


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

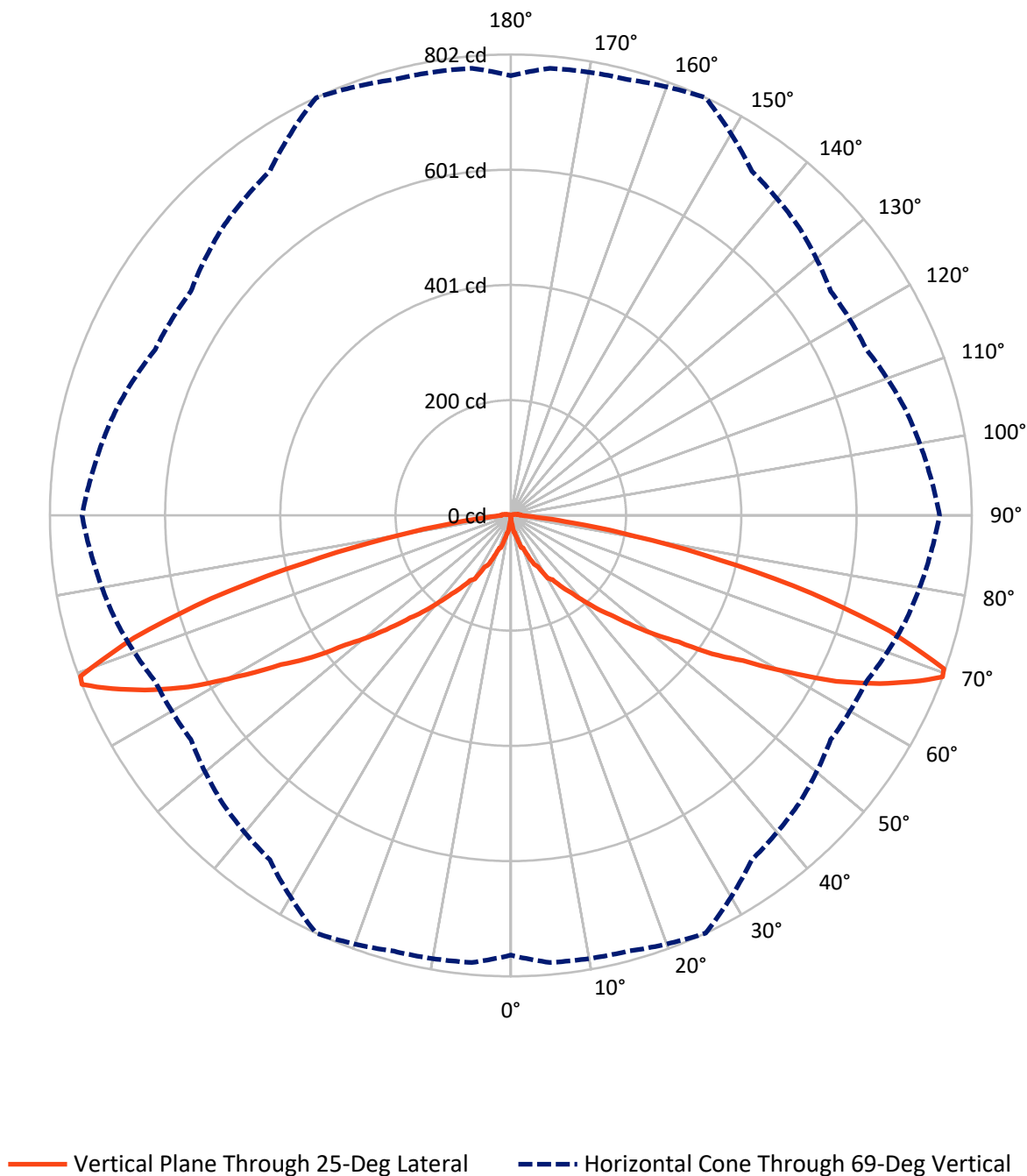


Based on 10 foot mounting height. Maximum calculated value = 1.1 fc
Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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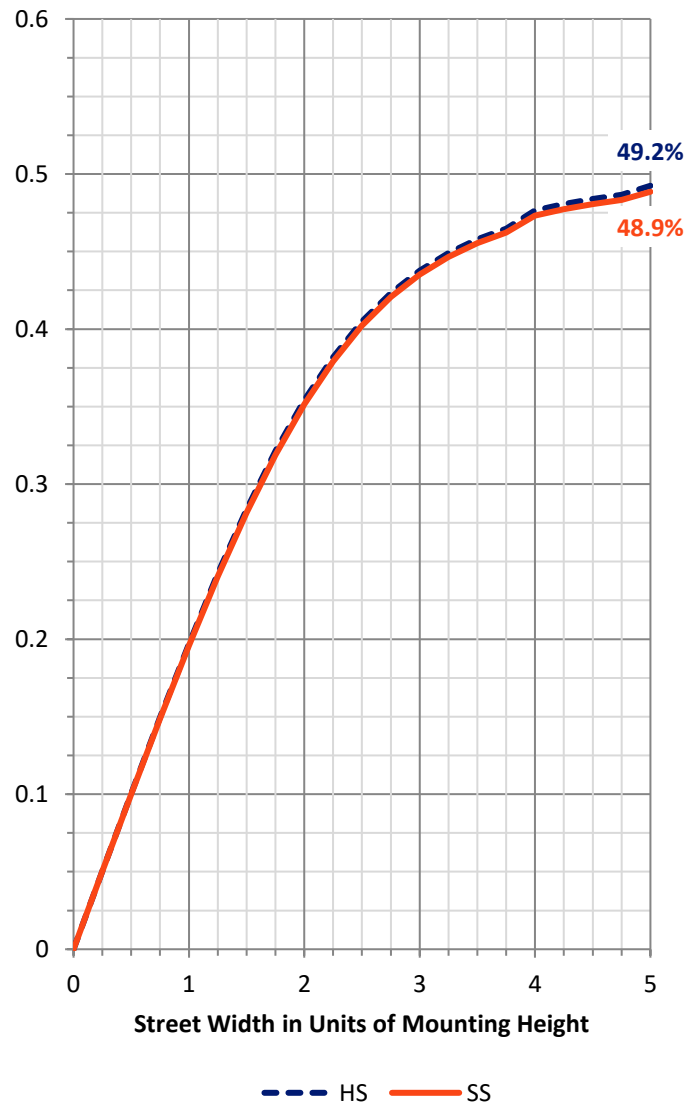
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1030.3	13.0	1043.3
	% Fixture	49.4	0.6	50.0
Street Side	Lumens	1030.3	13.0	1043.3
	% Fixture	49.4	0.6	50.0
Total	Lumens	2060.7	25.9	2086.6
	% Fixture	98.8	1.2	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.2	0.1
10°-20°	12.3	0.6
20°-30°	45.9	2.2
30°-40°	104.1	5.0
40°-50°	199.6	9.6
50°-60°	385.0	18.5
60°-70°	662.3	31.7
70°-80°	565.4	27.1
80°-90°	84.9	4.1
90°-100°	13.9	0.7
100°-110°	6.3	0.3
110°-120°	2.5	0.1
120°-130°	1.6	0.1
130°-140°	1.0	0.0
140°-150°	0.5	0.0
150°-160°	0.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2060.7	98.8
0°-180°	2086.6	100.0

Coefficient of Utilization



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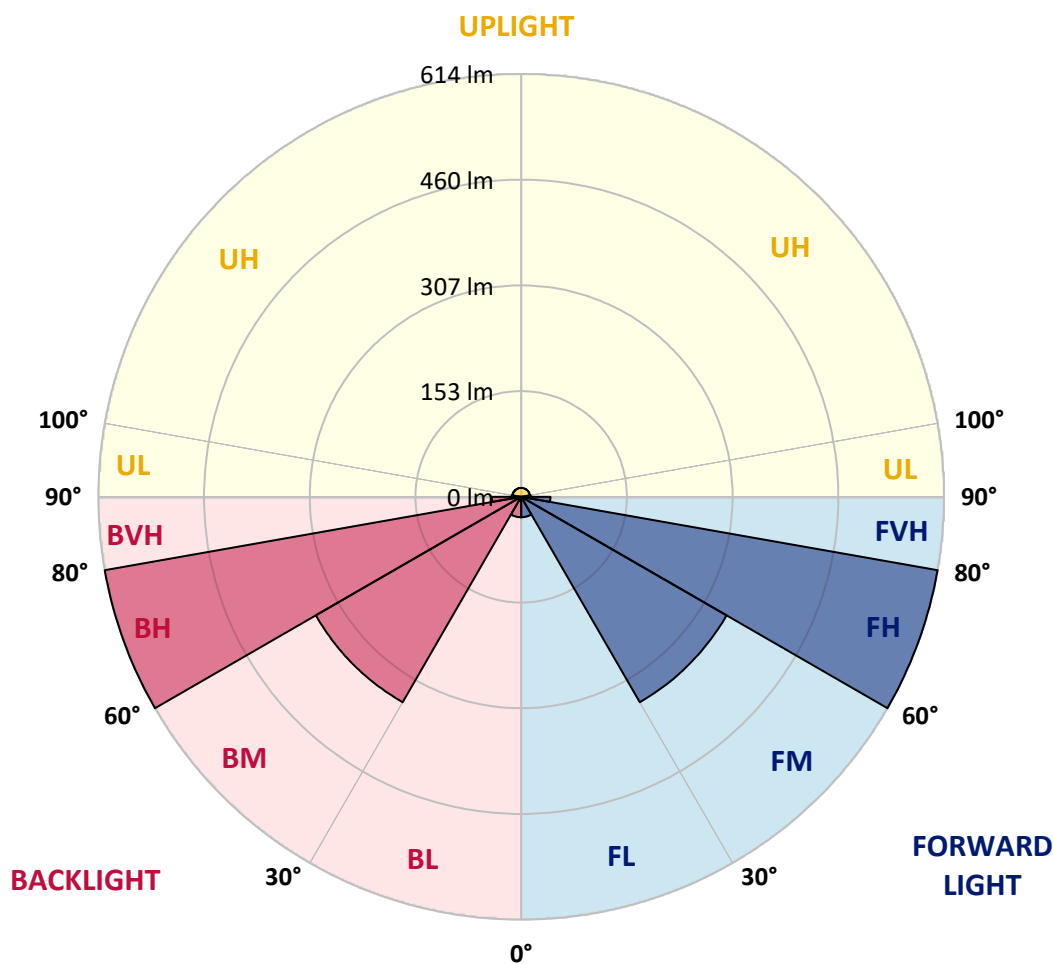
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	29.7	1.4			
FM	(30°-60°)	344.4	16.5			
FH	(60°-80°)	613.8	29.4			G0/660
FVH	(80°-90°)	42.5	2.0			G1/100
BL	(0°-30°)	29.7	1.4	B0/110		
BM	(30°-60°)	344.4	16.5	B1/1000		
BH	(60°-80°)	613.8	29.4	B2/1000		G0/660
BVH	(80°-90°)	42.5	2.0			G1/100
UL	(90°-100°)	13.9	0.7		U2/50	
UH	(100°-180°)	13.0	0.6		U2/50	

BUG Rating: B2-U2-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
2.5°	9.4	9.4	9.4	9.0	9.0	9.9	6.7	5.3	5.1	4.3	4.3
5°	10.6	10.9	10.2	9.6	9.4	9.9	10.2	9.4	5.7	4.6	4.1
7.5°	17.8	19.4	17.6	15.7	15.0	10.4	9.2	10.2	7.7	4.9	4.6
10°	31.4	31.1	31.9	29.7	21.5	16.7	13.7	9.4	11.4	8.8	8.3
12.5°	31.9	31.4	31.6	31.6	30.6	27.5	20.0	22.0	23.6	25.3	24.3
15°	55.5	54.5	49.8	42.9	30.6	37.4	37.9	39.2	35.3	33.7	33.1
17.5°	62.8	62.1	61.1	58.7	53.4	46.8	46.2	46.2	51.9	58.7	54.7
20°	69.4	68.1	61.5	60.5	65.4	58.8	56.8	68.8	74.4	80.2	78.1
22.5°	97.6	100.4	98.3	75.7	70.7	70.7	79.0	82.0	82.6	85.2	83.4
25°	99.9	101.4	99.1	94.1	89.3	82.6	88.2	91.7	106.4	111.7	110.6
27.5°	127.2	128.2	115.4	101.1	102.1	98.8	99.3	112.9	126.5	127.5	132.8
30°	137.1	138.3	132.1	126.8	112.5	112.3	117.8	127.2	143.2	154.8	164.2
32.5°	168.1	162.8	145.5	133.3	127.0	125.0	129.4	147.3	164.7	174.4	185.9
35°	185.4	187.8	184.2	152.8	138.6	145.9	146.9	154.0	170.0	186.8	193.7
37.5°	213.2	213.9	190.0	170.9	152.4	164.7	170.0	170.1	190.7	210.8	216.3
40°	231.0	237.8	222.4	195.3	169.7	177.4	178.5	199.0	218.0	231.0	239.8
42.5°	257.6	257.4	240.9	222.9	189.8	197.0	201.4	209.0	240.2	255.9	264.6
45°	286.7	286.4	271.6	249.6	220.7	213.9	220.4	242.5	275.7	288.7	284.5
47.5°	323.5	325.6	311.0	286.1	247.9	260.0	251.5	281.3	293.3	310.1	320.9
50°	361.5	363.6	345.5	325.5	284.7	285.7	289.8	312.9	332.0	358.3	369.9
52.5°	412.0	413.8	396.0	365.5	333.5	336.5	334.9	346.9	382.1	409.4	405.3
55°	467.2	466.5	444.8	425.0	397.0	386.4	379.9	411.5	432.4	453.5	457.7
57.5°	548.8	540.3	514.3	476.5	445.5	451.8	446.4	455.6	489.3	520.3	528.6
60°	608.7	614.0	595.1	552.4	505.8	503.6	508.0	525.4	549.6	568.8	580.1
62.5°	700.1	695.1	672.2	635.2	593.2	595.7	577.0	590.5	604.7	632.0	631.1
65°	741.2	740.1	725.0	705.4	667.8	653.5	635.6	642.2	656.2	670.9	693.0
67.5°	767.3	782.2	773.6	767.8	714.2	703.1	663.7	674.4	692.0	711.1	726.5
69°	764.8	780.5	784.7	801.6	730.9	708.7	679.4	682.5	710.7	733.5	745.6
70°	750.9	770.9	771.1	799.0	730.1	726.6	686.1	681.4	715.6	737.4	752.2
72.5°	663.3	676.2	685.6	689.3	689.5	727.2	680.8	642.9	672.9	716.6	716.0
75°	512.8	527.3	546.6	540.2	593.7	660.2	615.7	550.2	553.9	578.0	583.8
77.5°	322.9	324.3	349.4	369.5	457.5	526.0	481.2	391.9	350.8	351.5	365.3
80°	184.4	185.0	199.0	219.7	281.4	360.9	296.5	220.7	172.7	170.1	168.8
82.5°	88.2	86.1	91.4	108.4	146.1	182.3	148.2	84.4	67.4	74.1	75.1
85°	31.6	37.4	42.5	48.5	67.2	70.2	52.1	43.2	44.5	41.9	42.9
87.5°	19.9	20.3	24.2	26.1	27.9	29.3	32.6	29.3	29.7	24.7	23.1
90°	14.1	14.3	17.3	17.8	19.4	19.6	18.9	18.9	18.1	14.3	14.7
92.5°	10.9	10.6	13.6	15.2	16.7	15.7	16.3	14.3	13.7	10.4	10.2
95°	13.6	13.6	14.7	15.5	13.7	11.6	13.2	12.8	12.2	9.2	9.0
97.5°	7.7	8.3	11.0	11.9	11.6	9.4	11.4	11.6	11.0	7.9	6.7
100°	6.7	7.5	9.9	10.6	10.2	7.9	10.2	10.6	9.9	6.9	6.3
102.5°	6.0	6.5	8.3	9.2	8.3	6.0	8.3	9.0	8.3	5.7	5.3
105°	5.1	5.3	5.7	6.7	5.7	4.6	6.0	6.5	5.3	4.6	4.3
107.5°	4.3	4.3	4.1	4.6	4.1	3.7	4.3	4.6	3.9	3.9	3.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
110°	4.1	3.9	3.1	3.1	3.1	3.0	3.1	3.4	3.1	3.7	3.7
112.5°	3.7	3.4	2.6	2.4	2.4	2.4	2.6	2.6	2.6	3.4	3.4
115°	3.4	3.1	2.4	1.9	2.2	2.2	2.2	2.2	2.4	3.1	3.4
117.5°	3.4	3.1	2.2	1.9	1.6	1.6	1.9	1.9	2.4	3.1	3.1
120°	3.1	3.0	2.2	1.6	1.4	1.4	1.6	1.9	2.4	3.1	3.1
122.5°	3.0	3.0	1.9	1.4	1.4	1.4	1.4	1.6	2.2	3.0	3.0
125°	2.6	2.6	1.9	1.4	1.2	1.2	1.4	1.6	2.2	3.0	3.0
127.5°	2.6	2.4	1.9	1.2	1.2	1.2	1.2	1.4	1.9	2.6	3.0
130°	2.4	2.4	1.6	1.2	1.0	1.0	1.2	1.4	1.9	2.4	2.6
132.5°	2.4	2.2	1.6	1.0	1.0	1.0	1.0	1.2	1.6	2.2	2.4
135°	1.9	1.9	1.4	1.0	0.7	0.7	1.0	1.2	1.4	1.9	2.2
137.5°	1.9	1.6	1.4	1.0	0.7	0.7	0.7	1.0	1.4	1.6	1.9
140°	1.6	1.6	1.2	1.0	0.7	0.7	0.7	1.0	1.2	1.4	1.6
142.5°	1.4	1.4	1.2	1.0	0.7	0.4	0.7	0.7	1.0	1.2	1.2
145°	1.4	1.4	1.2	0.7	0.4	0.4	0.4	0.7	1.0	1.0	1.2
147.5°	1.2	1.2	1.0	0.7	0.4	0.2	0.4	0.7	0.7	1.0	1.0
150°	1.0	1.0	0.7	0.4	0.2	0.0	0.2	0.4	0.7	0.7	0.7
152.5°	0.7	0.7	0.4	0.2	0.0	0.0	0.0	0.2	0.4	0.4	0.7
155°	0.4	0.4	0.2	0.2	0.0	0.0	0.0	0.0	0.2	0.2	0.2
157.5°	0.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)