

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: P588553

Luminaire Tested: **ARC-CA6-90-740-U-55-6-5-X**

Issue Date: 11/30/2021

Test Information

Test Method: LM-79-08
Report Number: P588553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2107-308-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 11/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARC-CA6-90-740-U-55-6-5-X
Description: GENERATIONS SERIES AVENUE WITH AVENUE CAGE AND TYPE V REFRACTOR
Light Source: (6) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8814 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1.33' x H: 1.25')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U3 - G3

Input Watts (W): 93.9
Input Voltage (V): 120
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: 25 FT



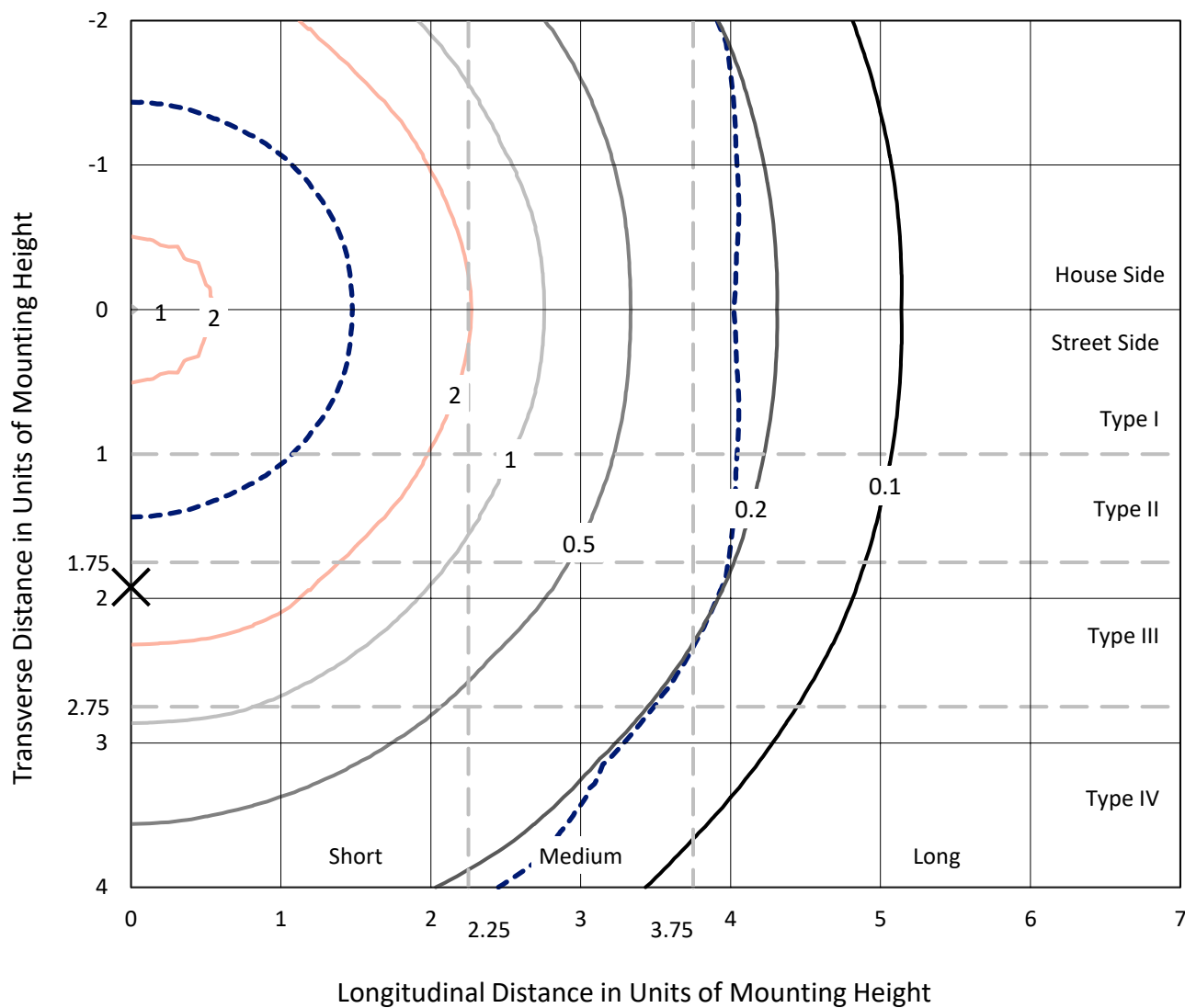
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

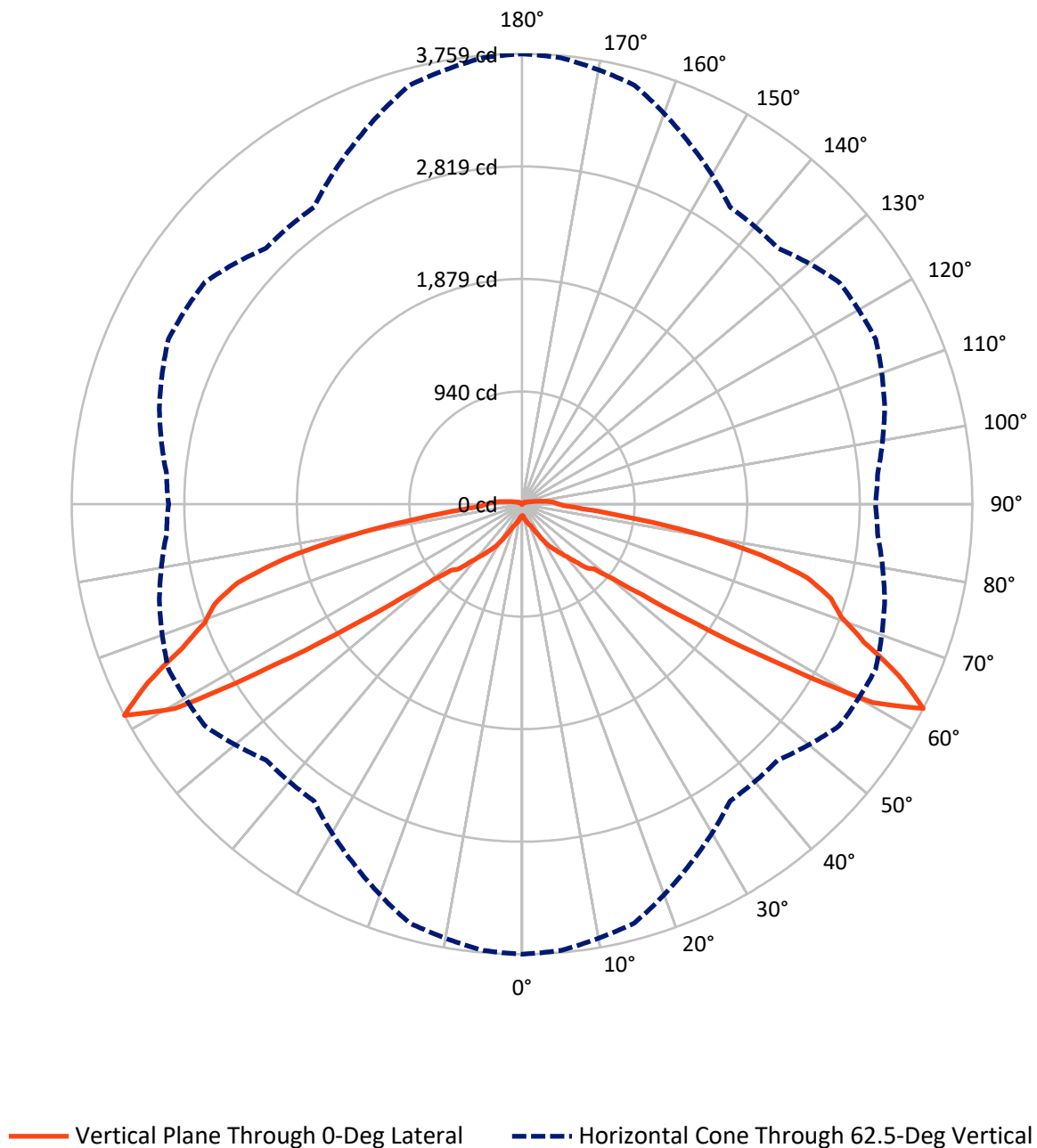


Based on 10 foot mounting height. Maximum calculated value = 4.2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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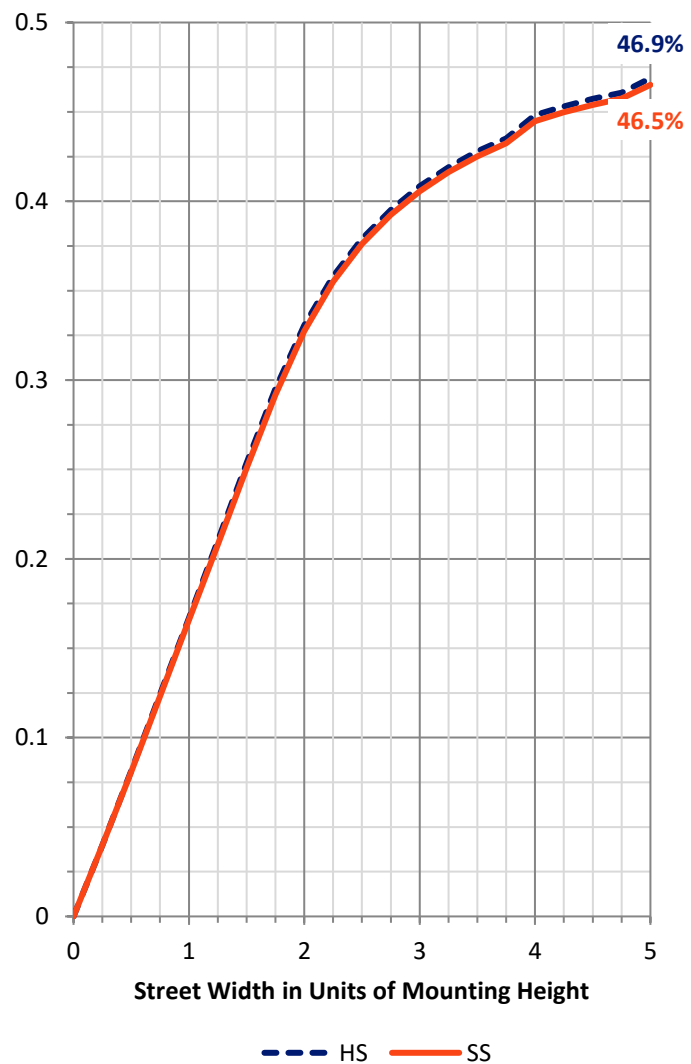
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4237.6	169.4	4407.0
	% Fixture	48.1	1.9	50.0
Street Side	Lumens	4237.6	169.4	4407.0
	% Fixture	48.1	1.9	50.0
Total	Lumens	8475.3	338.8	8814.0
	% Fixture	96.2	3.8	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.5	0.1
10°-20°	44.4	0.5
20°-30°	117.2	1.3
30°-40°	266.6	3.0
40°-50°	539.3	6.1
50°-60°	1596.3	18.1
60°-70°	2999.0	34.0
70°-80°	2229.2	25.3
80°-90°	672.9	7.6
90°-100°	218.4	2.5
100°-110°	76.5	0.9
110°-120°	29.6	0.3
120°-130°	11.7	0.1
130°-140°	2.4	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.1	0.0
170°-180°	0.1	0.0
0°-90°	8475.3	96.2
0°-180°	8814.0	100.0

Coefficient of Utilization



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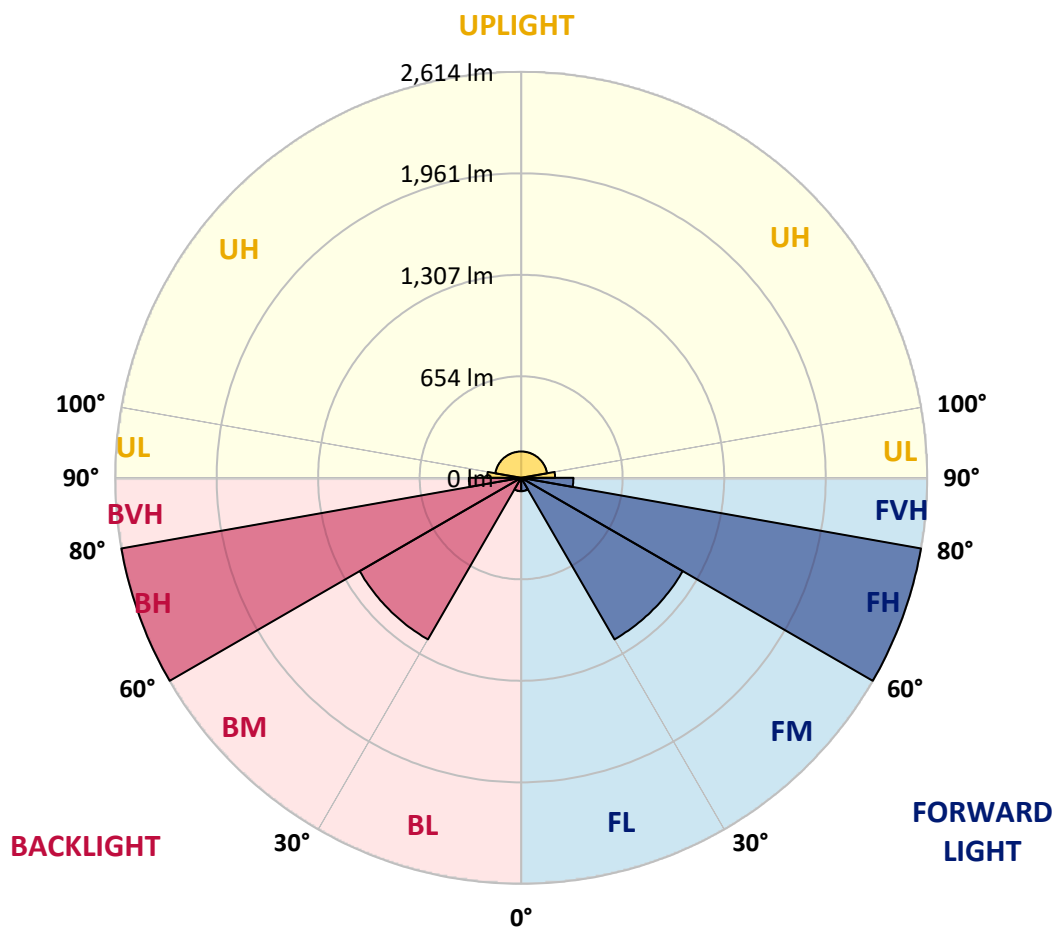
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	86.0	1.0			
FM	(30°-60°)	1201.1	13.6			
FH	(60°-80°)	2614.1	29.7			G2/5000
FVH	(80°-90°)	336.5	3.8			G3/500
BL	(0°-30°)	86.0	1.0	B0/110		
BM	(30°-60°)	1201.1	13.6	B2/2500		
BH	(60°-80°)	2614.1	29.7	B4/5000		G2/5000
BVH	(80°-90°)	336.5	3.8			G3/500
UL	(90°-100°)	218.4	2.5		U3/500	
UH	(100°-180°)	169.4	1.9		U3/500	

BUG Rating: B4-U3-G3

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9	96.9
2.5°	98.6	98.6	98.6	96.9	95.3	95.3	95.3	95.3	93.6	93.6	93.6
5°	103.6	103.6	101.9	100.3	100.3	98.6	100.3	98.6	98.6	98.6	100.3
7.5°	115.3	115.3	113.6	113.6	113.6	112.0	112.0	112.0	112.0	110.3	112.0
10°	128.7	128.7	128.7	128.7	128.7	127.0	127.0	125.3	125.3	125.3	125.3
12.5°	143.7	142.0	142.0	143.7	142.0	140.4	140.4	140.4	138.7	138.7	138.7
15°	157.1	157.1	155.4	155.4	155.4	153.7	153.7	152.1	152.1	150.4	150.4
17.5°	170.5	170.5	168.8	167.1	167.1	167.1	165.4	165.4	163.8	163.8	163.8
20°	187.2	185.5	183.8	182.2	180.5	180.5	180.5	180.5	178.8	177.1	177.1
22.5°	205.6	203.9	202.2	200.5	200.5	198.9	198.9	197.2	197.2	195.5	193.9
25°	244.0	244.0	237.3	235.6	235.6	237.3	235.6	234.0	230.6	225.6	225.6
27.5°	295.8	297.5	299.1	307.5	305.8	294.1	287.4	284.1	282.4	282.4	284.1
30°	354.3	356.0	361.0	369.3	364.3	349.3	332.6	325.9	330.9	337.6	339.2
32.5°	416.1	416.1	406.1	394.4	382.7	372.7	367.7	364.3	362.6	357.6	357.6
35°	464.6	456.2	424.5	386.0	374.3	381.0	401.1	407.8	382.7	359.3	356.0
37.5°	519.7	518.1	493.0	464.6	442.9	439.5	461.2	467.9	441.2	426.1	424.5
40°	578.2	581.6	586.6	574.9	541.5	531.4	519.7	511.4	511.4	513.1	509.7
42.5°	656.8	661.8	661.8	663.5	636.7	613.3	589.9	576.6	574.9	588.3	593.3
45°	762.1	762.1	750.4	727.0	715.3	698.6	683.5	670.1	663.5	665.1	670.1
47.5°	808.8	812.2	802.2	768.7	760.4	743.7	721.9	716.9	720.3	725.3	727.0
50°	972.6	964.3	895.7	825.6	800.5	817.2	849.0	857.3	825.6	793.8	785.5
52.5°	1260.1	1258.4	1204.9	1153.1	1118.0	1108.0	1151.4	1154.8	1099.6	1076.2	1072.9
55°	1758.1	1739.7	1779.8	1804.9	1731.3	1649.4	1619.4	1577.6	1580.9	1627.7	1629.4
57.5°	2465.0	2475.0	2520.1	2455.0	2343.0	2282.8	2241.0	2162.5	2164.2	2205.9	2209.3
60°	3362.4	3360.7	3217.0	2966.3	2794.2	2805.9	2921.2	2937.9	2759.1	2643.8	2630.4
62.5°	3758.5	3740.1	3621.4	3317.3	3026.5	3021.5	3230.4	3257.1	3133.5	2979.7	2949.6
65°	3459.3	3444.3	3494.4	3390.8	3008.1	2909.5	2973.0	2966.3	3044.9	3115.1	3123.4
67.5°	3080.0	3083.3	3203.6	3171.9	2906.2	2739.1	2658.8	2648.8	2795.9	2959.6	2981.4
70°	2826.0	2826.0	2911.2	2782.5	2655.5	2546.9	2463.3	2411.5	2506.8	2533.5	2531.8
72.5°	2695.6	2683.9	2623.7	2500.1	2403.1	2307.9	2333.0	2294.5	2249.4	2179.2	2172.5
75°	2463.3	2449.9	2366.4	2307.9	2237.7	2119.0	2140.8	2102.3	2027.1	1963.6	1953.6
77.5°	2035.5	2035.5	1982.0	1938.6	1918.5	1816.6	1806.5	1788.2	1713.0	1677.9	1664.5
80°	1457.3	1453.9	1432.2	1417.2	1442.2	1382.1	1355.3	1355.3	1325.2	1293.5	1278.4
82.5°	867.3	855.6	855.6	860.7	845.6	807.2	813.9	852.3	849.0	830.6	817.2
85°	513.1	506.4	501.4	494.7	481.3	454.6	454.6	457.9	461.2	462.9	456.2
87.5°	342.6	340.9	340.9	340.9	325.9	307.5	315.9	320.9	317.5	315.9	314.2
90°	299.1	300.8	299.1	292.5	279.1	262.4	265.7	272.4	269.1	269.1	267.4
92.5°	269.1	269.1	265.7	259.0	245.7	230.6	232.3	235.6	234.0	232.3	230.6
95°	220.6	220.6	217.3	212.2	200.5	187.2	188.8	192.2	188.8	188.8	187.2
97.5°	172.1	172.1	170.5	167.1	157.1	147.1	148.7	150.4	148.7	148.7	147.1
100°	130.4	130.4	128.7	123.7	118.7	110.3	112.0	115.3	113.6	113.6	112.0
102.5°	96.9	96.9	95.3	93.6	86.9	81.9	83.6	83.6	83.6	81.9	81.9
105°	75.2	75.2	75.2	71.9	68.5	63.5	63.5	63.5	63.5	61.8	61.8
107.5°	60.2	58.5	58.5	56.8	53.5	50.1	50.1	50.1	50.1	50.1	50.1
110°	48.5	46.8	45.1	45.1	41.8	40.1	38.4	40.1	40.1	40.1	40.1

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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	41.8	40.1	36.8	36.8	35.1	31.8	31.8	31.8	35.1	33.4	33.4
115°	36.8	35.1	30.1	30.1	28.4	26.7	26.7	26.7	30.1	26.7	26.7
117.5°	31.8	30.1	25.1	25.1	23.4	21.7	21.7	21.7	25.1	21.7	21.7
120°	23.4	23.4	20.1	20.1	20.1	18.4	18.4	18.4	20.1	18.4	18.4
122.5°	18.4	18.4	16.7	16.7	16.7	15.0	15.0	15.0	15.0	13.4	13.4
125°	18.4	21.7	13.4	13.4	11.7	11.7	11.7	10.0	11.7	10.0	10.0
127.5°	20.1	18.4	10.0	10.0	10.0	8.4	8.4	8.4	8.4	8.4	8.4
130°	6.7	10.0	6.7	6.7	6.7	6.7	6.7	6.7	5.0	5.0	5.0
132.5°	5.0	5.0	5.0	5.0	5.0	5.0	3.3	3.3	3.3	3.3	3.3
135°	3.3	3.3	3.3	3.3	3.3	3.3	1.7	1.7	1.7	1.7	1.7
137.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	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	1.7	1.7	1.7	1.7	1.7
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7
170°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7
172.5°	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
175°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
177.5°	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
180°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7

(END OF REPORT)