

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: P324904

Luminaire Tested: **GAN-SA0D-760-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324904
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-760-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62868 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

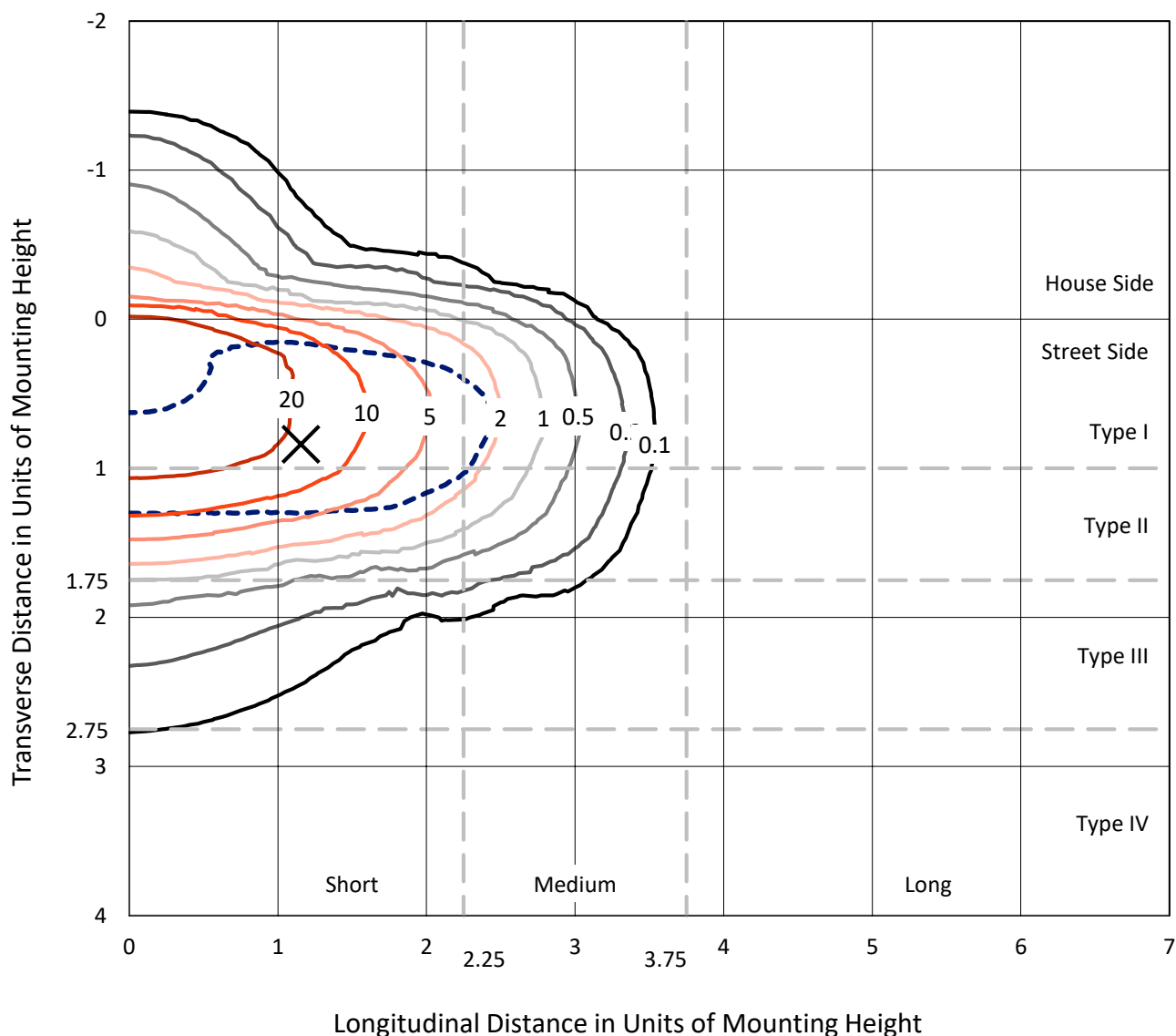
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

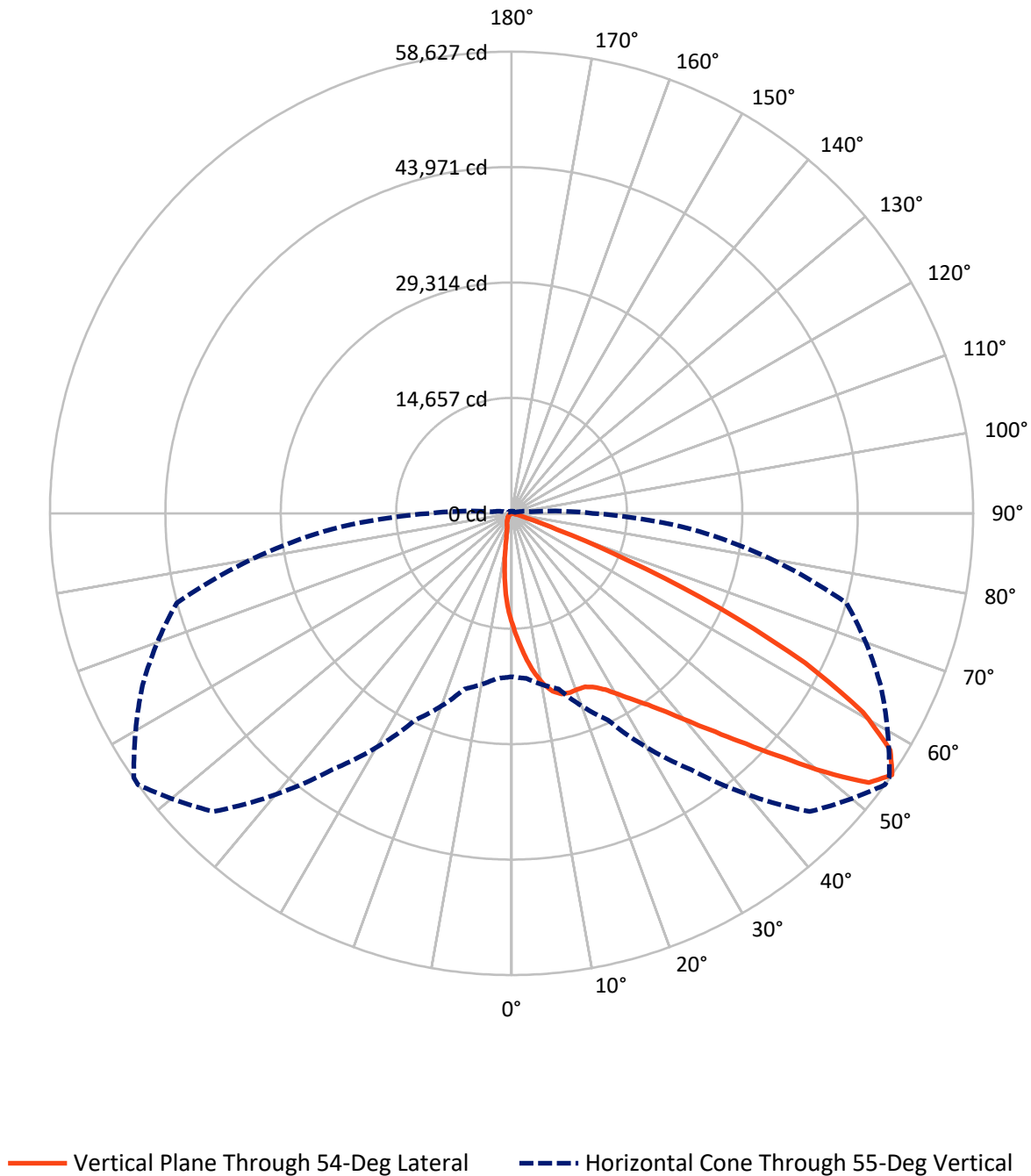
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 34.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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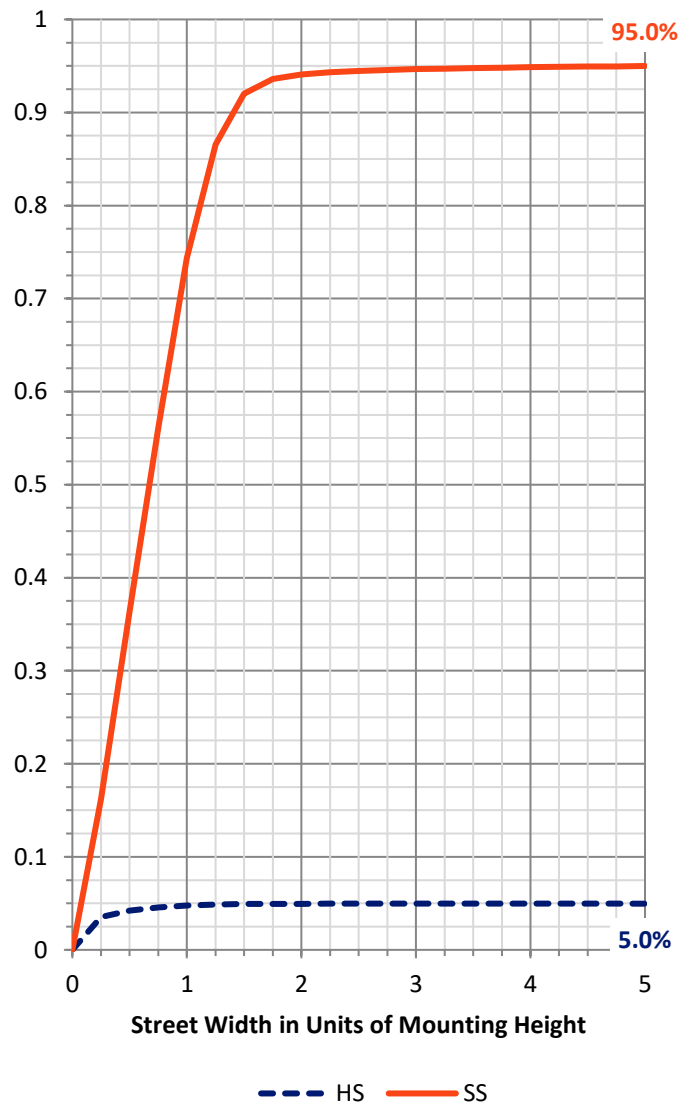
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3136.6	0.0	3136.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	59731.4	0.0	59731.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	62868.0	0.0	62868.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1296.6	2.1
10°-20°	3556.0	5.7
20°-30°	6071.2	9.7
30°-40°	9743.3	15.5
40°-50°	15569.8	24.8
50°-60°	16683.4	26.5
60°-70°	8565.8	13.6
70°-80°	1297.5	2.1
80°-90°	84.5	0.1
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°	62868.0	100.0
0°-180°	62868.0	100.0

Coefficient of Utilization



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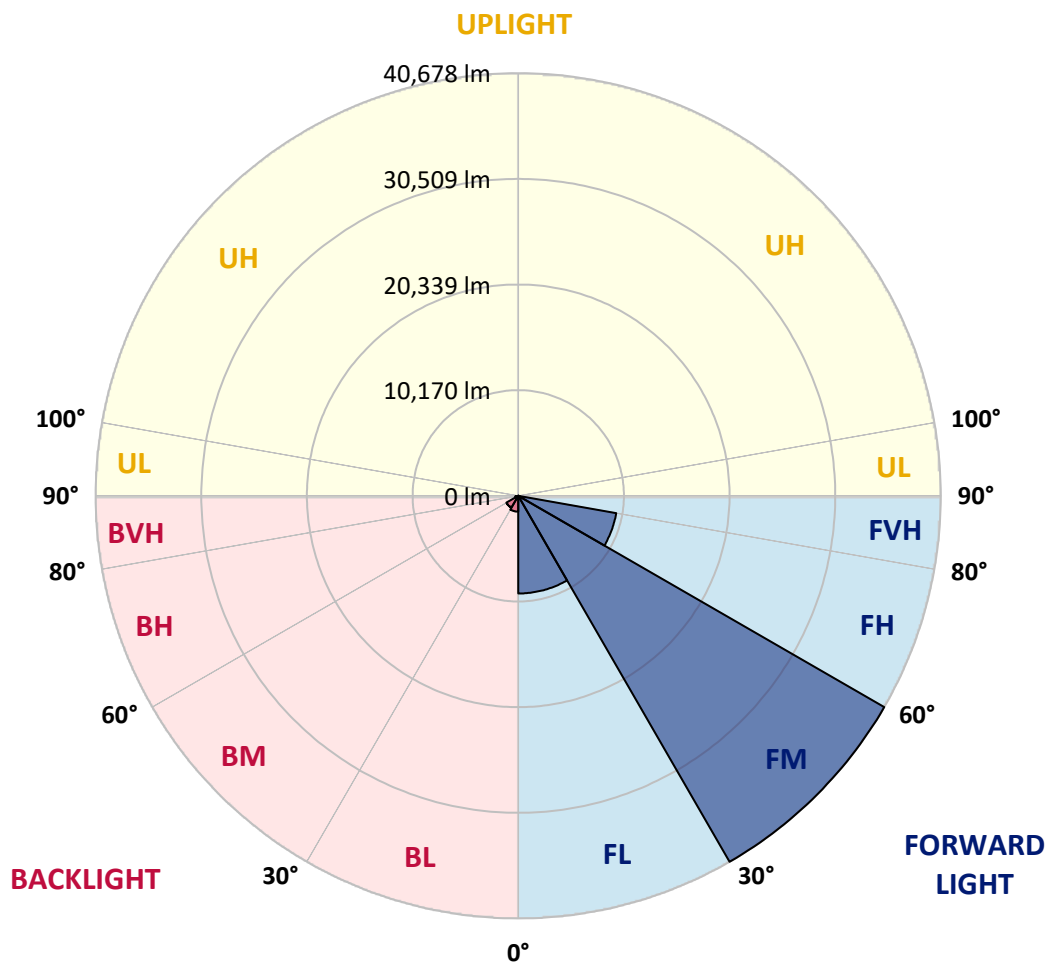
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	9397.7	14.9			
FM	(30°-60°)	40678.4	64.7			
FH	(60°-80°)	9574.2	15.2			G4/12000
FVH	(80°-90°)	81.1	0.1			G1/100
BL	(0°-30°)	1526.1	2.4	B3/2500		
BM	(30°-60°)	1318.1	2.1	B2/2500		
BH	(60°-80°)	289.1	0.5	B1/500		G1/500
BVH	(80°-90°)	3.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9
2.5°	17669.1	17405.8	17413.9	17294.5	16857.3	16515.2	16159.6	16075.4	15521.6	14940.6	14381.3
5°	20723.5	20530.7	20484.6	20253.8	19645.6	19002.2	18312.6	18152.4	17069.1	15879.9	14709.8
7.5°	22292.7	22295.5	22257.4	22173.3	21793.2	21168.7	20327.1	20158.8	18684.5	16900.8	15051.9
10°	21836.6	21939.8	22151.6	22431.2	22721.7	22643.0	22010.4	21858.3	20256.5	17981.3	15432.0
12.5°	20772.3	20785.9	21022.1	21481.0	22317.2	23175.1	23186.0	23134.4	21757.9	19110.8	15850.1
15°	20242.9	20294.5	20381.4	20677.3	21470.1	22843.9	23826.7	23900.0	23134.4	20310.8	16295.3
17.5°	20590.4	20663.7	20590.4	20625.7	21084.6	22319.9	23938.0	24125.4	24337.1	21497.2	16716.2
20°	21532.5	21600.4	21470.1	21326.2	21415.8	22167.8	23859.3	24111.8	25279.2	22550.7	17069.1
22.5°	22803.2	22830.3	22632.1	22395.9	22330.7	22683.7	23924.4	24185.1	26034.0	23503.6	17291.7
25°	24201.4	24225.8	23978.7	23707.2	23552.5	23696.4	24459.3	24654.8	26699.2	24413.1	17419.3
27.5°	25724.5	25746.2	25436.7	25102.7	24923.6	24929.0	25341.7	25550.7	27407.8	25450.3	17522.5
30°	27334.5	27323.6	27038.5	26574.3	26346.2	26340.8	26612.3	26824.0	28434.0	26780.6	17663.7
32.5°	29142.6	29120.9	28716.4	28140.8	27882.9	27920.9	28162.5	28284.7	29707.4	28197.8	17916.2
35°	31523.7	31461.2	30850.4	30136.3	29661.2	29647.6	29851.3	29949.0	31330.9	29913.7	18337.0
37.5°	34613.3	34556.3	33728.3	32691.1	32023.2	31773.5	32015.1	32140.0	33646.8	32115.5	19013.0
40°	37659.5	37602.5	37111.1	36160.9	35131.9	34531.9	34721.9	34855.0	36538.3	34787.1	19865.5
42.5°	39760.9	39809.8	39980.9	40059.6	39095.8	37836.0	37922.9	38061.4	39576.3	37643.3	20840.2
45°	40314.8	40420.7	41387.2	43285.0	43646.1	42663.3	41753.7	41829.8	42663.3	40499.4	21814.9
47.5°	38650.5	38846.0	40711.2	44240.7	47297.7	47992.8	46271.5	46171.0	45625.3	42809.9	22507.2
50°	34868.5	35047.7	37464.1	42685.0	48405.5	53080.7	51685.2	51389.2	48223.6	44191.8	22751.6
52.5°	29395.1	29612.3	31575.3	37787.2	46317.6	55350.4	56811.0	56564.0	50129.5	44300.4	22792.3
55°	20758.8	21022.1	23099.1	28960.7	39701.2	53544.9	58627.4	58554.1	51712.3	44012.6	22879.2
57.5°	11666.3	11856.3	14096.2	18565.1	29077.5	46638.0	56729.6	57215.6	52668.0	43513.1	23009.5
60°	5180.2	5231.8	6391.1	9241.8	17023.0	35642.3	51296.9	52116.8	51848.1	42845.2	23229.4
62.5°	2872.5	2829.0	2829.0	3841.7	7398.3	22064.7	41829.8	43184.5	48348.4	42055.1	23240.3
65°	2250.7	2210.0	2093.3	2109.5	2818.2	9792.9	28966.2	31374.4	41702.2	39739.2	22458.4
67.5°	1908.6	1873.3	1756.6	1710.4	1751.2	3230.8	15915.2	18415.7	31643.1	33720.1	19452.9
70°	1612.7	1588.3	1528.5	1471.5	1368.4	1596.4	6089.7	7789.3	19499.0	22431.2	13279.0
72.5°	1297.8	1286.9	1308.6	1259.8	1134.9	1064.3	2082.4	2522.2	8758.5	10010.1	5470.7
75°	1118.6	1113.1	1124.0	1075.1	934.0	741.2	1058.8	1156.6	2470.6	2448.9	1107.7
77.5°	727.6	735.8	931.2	909.5	803.6	494.1	548.4	591.9	749.3	562.0	336.7
80°	464.3	458.8	472.4	754.8	722.2	377.4	274.2	287.8	361.1	276.9	162.9
82.5°	282.4	276.9	309.5	352.9	363.8	263.4	168.3	171.0	225.3	179.2	86.9
85°	24.4	32.6	187.3	173.8	124.9	81.4	81.4	86.9	119.5	105.9	48.9
87.5°	0.0	0.0	32.6	48.9	27.1	29.9	29.9	32.6	46.2	46.2	24.4
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°	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9	14079.9
2.5°	14090.8	13808.4	13238.3	12689.8	12225.6	11777.6	11267.2	10762.2	10526.0	10431.0	10333.2
5°	14115.2	13534.2	12358.6	11174.9	9947.7	8842.7	7900.6	6934.1	6450.8	6239.0	6141.3
7.5°	14147.8	13262.7	11362.2	9374.8	7398.3	5899.7	4591.0	3749.4	3385.6	3328.6	3187.4
10°	14153.2	12934.2	10205.6	7387.5	4960.3	3556.6	2736.7	2302.3	2142.1	2115.0	2068.8
12.5°	14164.1	12545.9	8921.4	5470.7	3306.9	2378.3	1979.2	1835.3	1791.9	1789.2	1789.2
15°	14196.7	12138.7	7588.4	3942.2	2375.6	1884.2	1737.6	1680.6	1664.3	1672.4	1669.7
17.5°	14196.7	11658.1	6279.8	2937.6	1919.5	1694.2	1612.7	1574.7	1569.3	1577.4	1580.1
20°	14093.5	11074.4	5079.7	2286.0	1702.3	1572.0	1498.7	1463.4	1449.8	1455.2	1457.9
22.5°	13846.4	10357.7	4102.3	1892.3	1558.4	1460.7	1381.9	1327.6	1305.9	1308.6	1308.6
25°	13460.9	9507.9	3209.1	1637.1	1441.7	1341.2	1248.9	1186.4	1172.9	1170.2	1175.6
27.5°	12966.8	8568.5	2554.8	1441.7	1303.2	1208.2	1115.9	1064.3	1053.4	1056.1	1058.8
30°	12480.8	7593.8	2014.5	1276.0	1148.4	1058.8	988.3	963.8	963.8	972.0	974.7
32.5°	12035.5	6657.1	1593.7	1132.1	1010.0	928.5	887.8	885.1	898.7	904.1	906.8
35°	11652.7	5791.1	1319.5	1020.8	901.4	830.8	817.2	828.1	844.4	855.2	857.9
37.5°	11381.2	5017.3	1153.9	928.5	817.2	760.2	757.5	779.2	800.9	825.4	830.8
40°	11267.2	4363.0	1039.8	847.1	749.3	705.9	697.8	727.6	768.3	803.6	809.1
42.5°	11172.2	3828.1	942.1	768.3	695.0	632.6	629.9	667.9	716.8	752.1	760.2
45°	11090.7	3399.2	852.5	684.2	624.4	543.0	551.1	600.0	638.0	676.0	684.2
47.5°	10922.4	3046.2	754.8	594.6	515.8	464.3	480.6	524.0	553.9	610.9	619.0
50°	10621.0	2758.4	654.3	486.0	420.8	401.8	426.3	456.1	494.1	543.0	548.4
52.5°	10417.4	2541.2	567.4	407.2	347.5	352.9	377.4	388.2	410.0	429.0	423.5
55°	10300.7	2421.8	496.8	352.9	295.9	312.2	317.7	304.1	293.2	274.2	266.1
57.5°	10287.1	2313.2	442.5	306.8	260.6	268.8	249.8	203.6	165.6	143.9	138.5
60°	10265.4	2180.1	399.1	257.9	230.8	219.9	179.2	111.3	78.7	73.3	73.3
62.5°	10029.2	1973.8	366.5	217.2	195.5	165.6	103.2	51.6	43.4	46.2	46.2
65°	9277.1	1686.0	333.9	176.5	154.8	119.5	51.6	29.9	16.3	19.0	19.0
67.5°	7887.0	1343.9	298.6	135.7	116.7	76.0	29.9	13.6	0.0	0.0	0.0
70°	5280.6	833.5	252.5	95.0	76.0	46.2	21.7	2.7	0.0	0.0	0.0
72.5°	2025.4	450.7	203.6	57.0	48.9	32.6	13.6	0.0	0.0	0.0	0.0
75°	456.1	295.9	141.2	40.7	35.3	21.7	5.4	0.0	0.0	0.0	0.0
77.5°	173.8	214.5	81.4	27.1	24.4	13.6	0.0	0.0	0.0	0.0	0.0
80°	84.2	127.6	38.0	16.3	13.6	5.4	0.0	0.0	0.0	0.0	0.0
82.5°	43.4	48.9	16.3	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.4	24.4	8.1	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.6	8.1	2.7	2.7	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)