

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: P458130

Luminaire Tested: **GLAN-SA9C-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458130
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45445 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 481
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

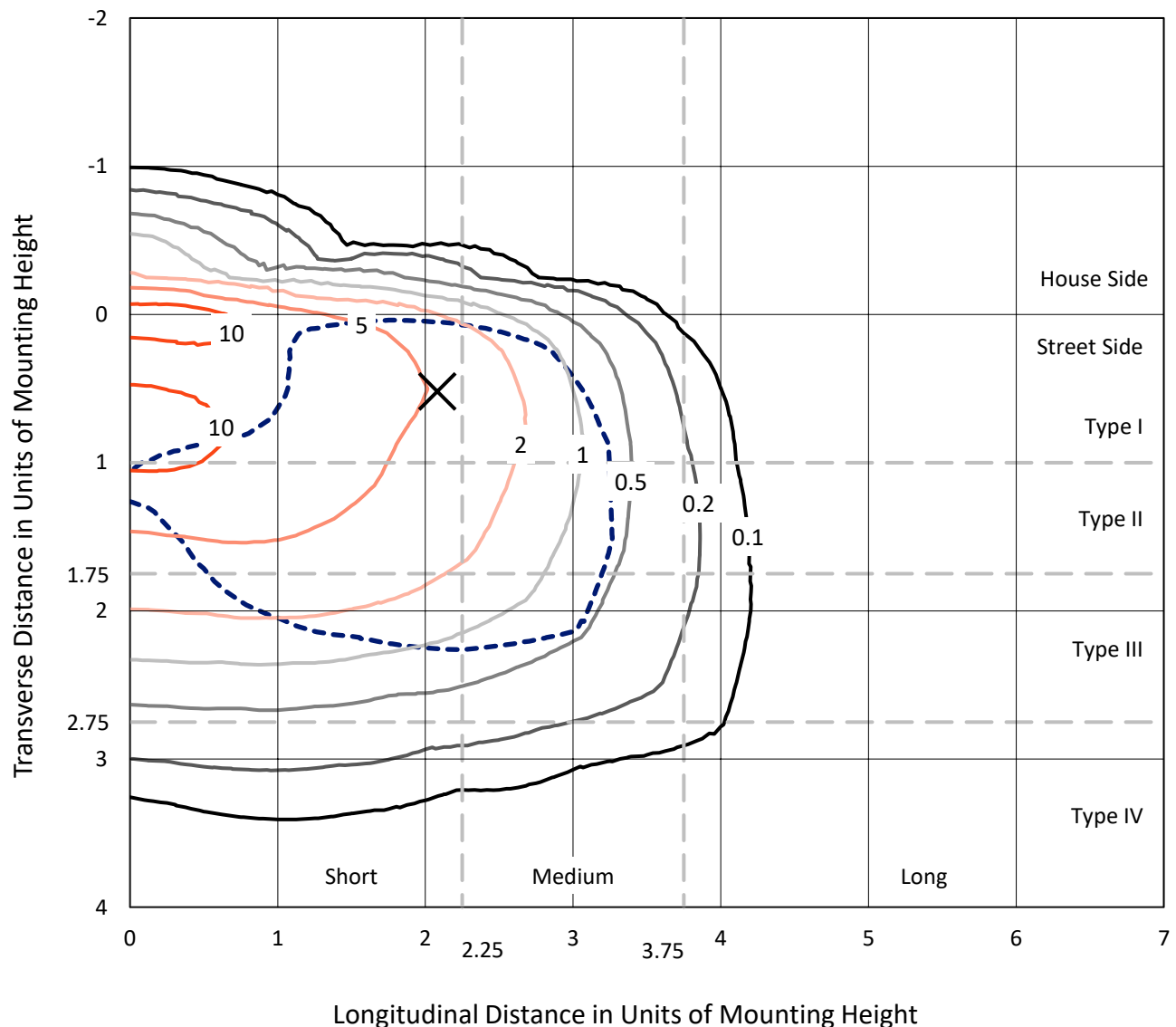


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

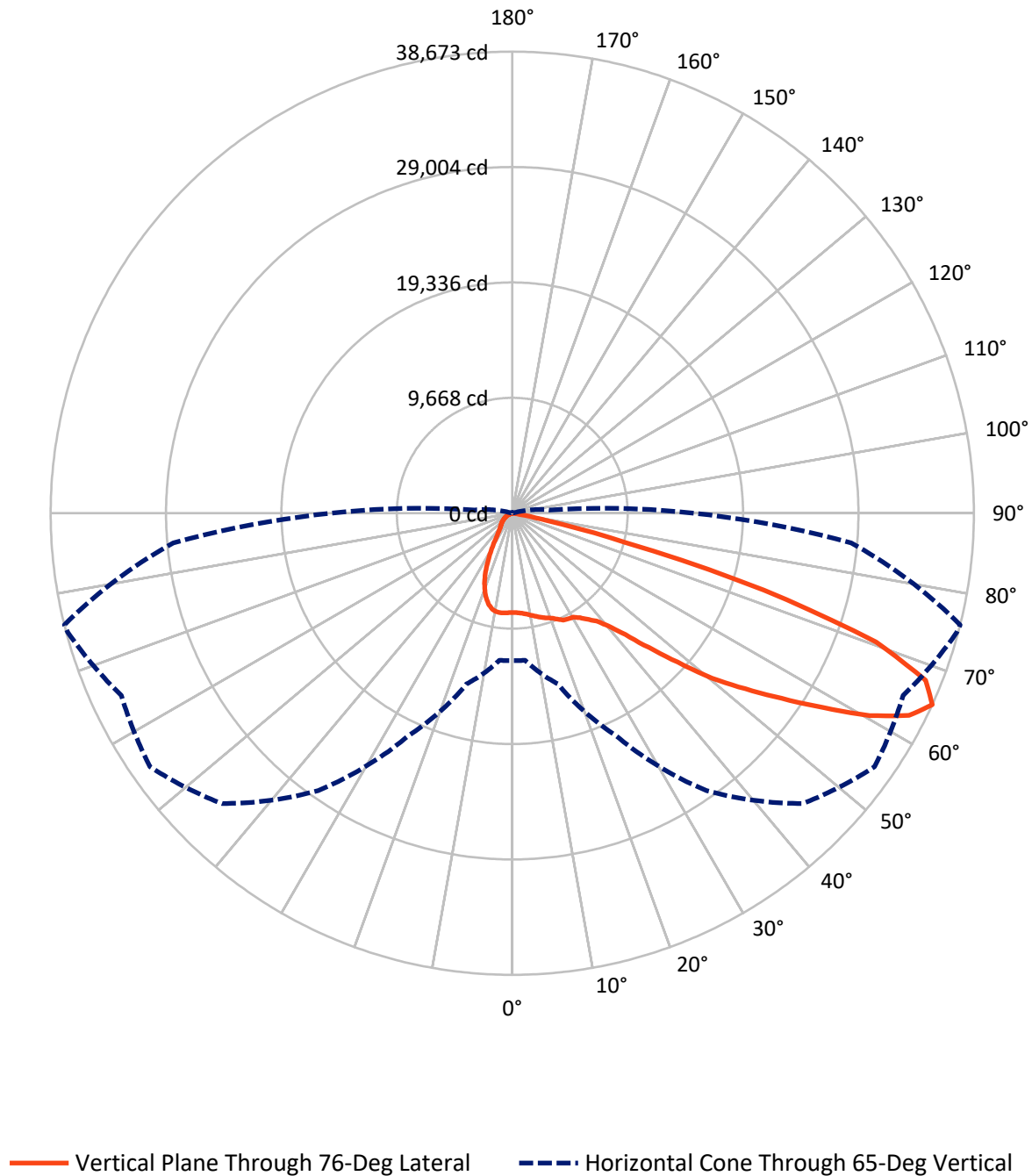


Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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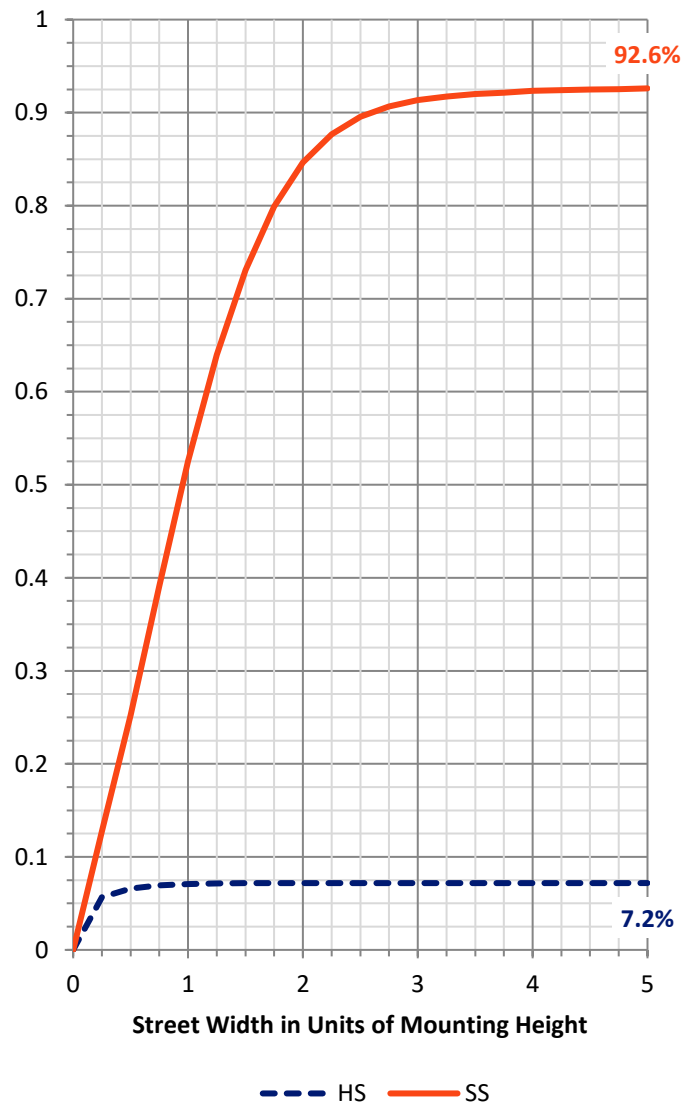
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3282.0	0.0	3282.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	42163.0	0.0	42163.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	45445.0	0.0	45445.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.8	1.5
10°-20°	1524.8	3.4
20°-30°	2457.1	5.4
30°-40°	4272.3	9.4
40°-50°	7059.7	15.5
50°-60°	10905.8	24.0
60°-70°	13317.5	29.3
70°-80°	5054.3	11.1
80°-90°	168.7	0.4
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°	45445.0	100.0
0°-180°	45445.0	100.0

Coefficient of Utilization



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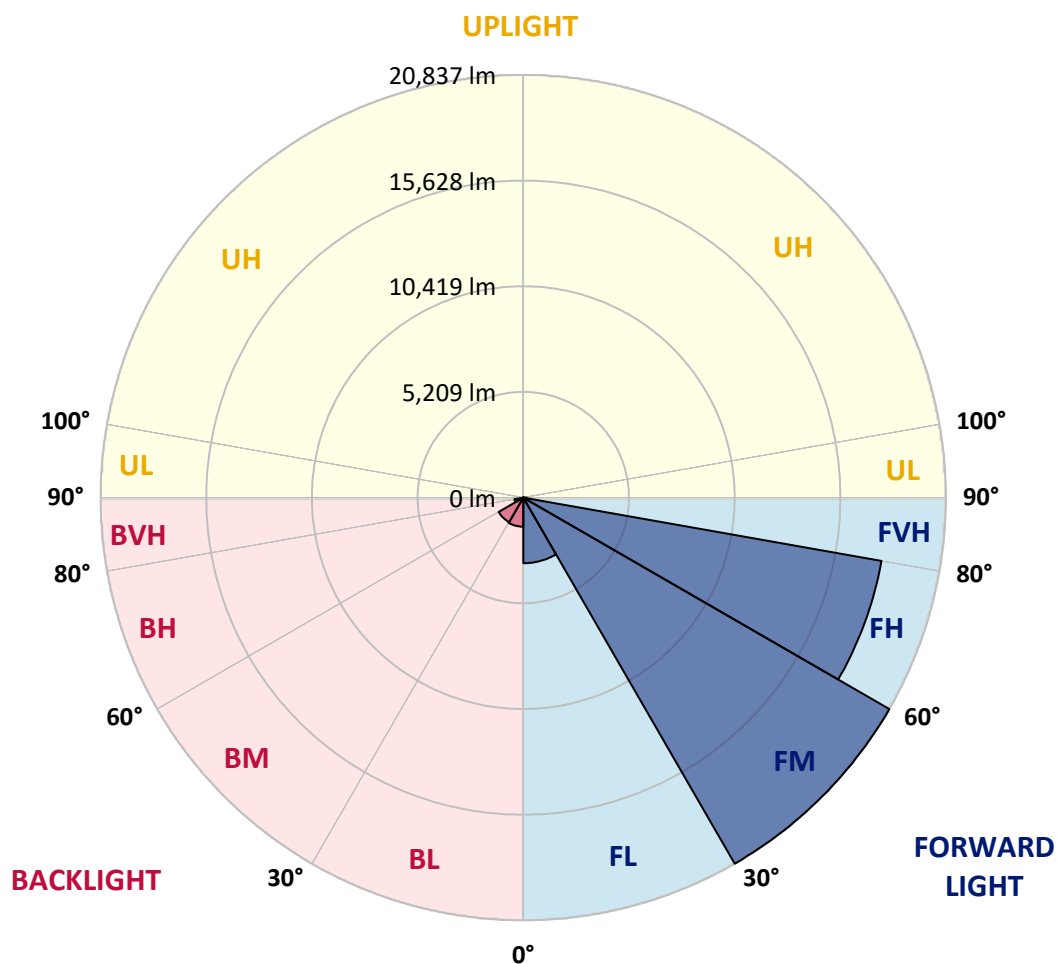
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3232.9	7.1			
FM	(30°-60°)	20837.2	45.9			
FH	(60°-80°)	17926.5	39.4			G5
FVH	(80°-90°)	166.4	0.4			G2/225
BL	(0°-30°)	1433.9	3.2	B3/2500		
BM	(30°-60°)	1400.5	3.1	B2/2500		
BH	(60°-80°)	445.3	1.0	B1/500		G1/500
BVH	(80°-90°)	2.3	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-G5

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3
2.5°	7944.4	7947.6	7966.8	8014.9	8088.7	8149.7	8201.0	8284.5	8342.2	8348.6	8367.9
5°	7395.7	7357.2	7395.7	7520.8	7633.1	7803.2	8011.7	8220.3	8406.4	8419.2	8509.1
7.5°	6779.7	6811.7	6872.7	7001.0	7212.8	7472.7	7774.3	8146.5	8499.4	8531.5	8708.0
10°	6154.0	6224.6	6324.0	6519.8	6815.0	7151.8	7562.5	8095.2	8647.0	8691.9	8996.8
12.5°	5576.5	5608.5	5730.5	5993.6	6359.3	6834.2	7402.1	8066.3	8810.7	8865.2	9304.8
15°	5133.7	5175.4	5281.3	5518.7	5926.2	6535.8	7270.6	8056.7	8971.1	9048.1	9612.8
17.5°	5050.3	5075.9	5120.8	5281.3	5637.4	6298.4	7151.8	8053.4	9125.1	9218.2	9898.4
20°	5393.6	5371.1	5326.2	5310.1	5505.9	6115.5	7065.2	8079.1	9272.7	9378.6	10200.0
22.5°	6253.5	6282.3	6019.2	5708.0	5643.8	6086.6	7052.4	8201.0	9506.9	9632.1	10536.9
25°	8079.1	7857.7	7447.0	6702.7	6141.2	6263.1	7196.8	8489.8	9779.6	9917.6	10841.7
27.5°	10097.3	10029.9	9391.4	8165.7	7119.8	6635.3	7453.5	8711.2	9869.5	10010.7	11014.9
30°	12080.2	12160.4	11428.8	10074.8	8541.1	7325.1	7694.1	8794.6	9949.7	10097.3	11236.3
32.5°	13918.7	14014.9	13373.2	12032.0	10216.0	8518.7	8108.0	9118.7	10286.6	10437.4	11605.3
35°	15365.7	15378.6	14894.1	13825.6	12044.9	9969.0	9003.2	9686.6	10742.2	10918.7	11996.8
37.5°	16694.1	16674.8	16106.9	15186.0	13568.9	11409.6	10129.4	10341.1	11262.0	11444.9	12561.5
40°	17679.1	17691.9	17509.0	16642.7	14990.3	12741.1	11021.4	10954.0	12134.7	12420.3	13382.8
42.5°	18336.8	18455.6	18545.4	18105.8	16777.5	14380.7	12391.4	12266.3	13649.2	13886.6	14544.3
45°	18869.5	19081.2	19530.4	19508.0	18494.1	16392.5	14271.6	14014.9	15795.7	16049.1	16023.5
47.5°	19257.7	19472.7	20217.0	20666.2	20108.0	18343.3	16636.3	16414.9	18359.3	18635.2	17656.6
50°	19456.6	19713.3	20663.0	21532.5	21368.9	20223.5	19331.5	19344.3	21455.5	21721.9	19549.7
52.5°	18991.4	19325.1	20900.5	22466.2	22783.9	22023.5	21856.6	22280.1	24211.7	24439.5	21259.8
55°	17505.8	17926.1	20576.4	23262.0	24423.4	24147.5	24725.1	25370.0	27224.5	27372.1	23014.9
57.5°	16565.7	17011.7	19620.3	23939.0	26393.5	26817.0	27731.5	28203.1	30333.6	30709.0	25029.9
60°	15773.2	16122.9	18834.2	24083.3	28395.6	30083.3	30972.1	31459.8	34171.0	34414.9	27247.0
62.5°	14454.5	14855.6	17505.8	23075.9	29403.1	32698.3	34540.0	34321.8	37138.9	37309.0	28607.4
65°	12333.6	12368.9	14810.6	20544.3	28363.5	34395.6	37045.9	36131.4	38557.1	38672.6	28501.5
67.5°	9205.3	9545.4	11393.5	16148.6	23958.2	32945.3	37857.6	36179.6	37661.9	37341.1	26239.5
70°	5929.4	6189.3	7723.0	11197.8	17274.8	27494.0	35165.7	33699.4	33054.4	32342.1	21478.0
72.5°	2736.9	3070.6	4588.2	6397.8	10244.9	19585.0	28546.4	27378.5	23791.4	22033.1	13652.4
75°	1193.6	1277.0	2265.2	3375.4	4803.2	10357.2	18821.3	16995.7	10745.4	9814.9	5464.2
77.5°	728.3	782.9	1187.2	1809.6	1886.6	3946.5	10139.0	7414.9	3320.8	2929.4	1482.3
80°	494.1	555.1	863.1	946.5	644.9	1100.5	3805.3	1979.7	670.6	641.7	317.6
82.5°	240.6	304.8	638.5	529.4	279.1	352.9	1106.9	423.5	195.7	182.9	112.3
85°	35.3	61.0	359.4	346.5	125.1	83.4	195.7	105.9	67.4	64.2	51.3
87.5°	0.0	0.0	121.9	54.5	12.8	12.8	22.5	22.5	25.7	22.5	25.7
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3	8313.3
2.5°	8377.5	8393.6	8332.6	8246.0	8152.9	8059.9	7928.3	7809.6	7739.0	7780.7	7678.0
5°	8528.3	8515.5	8355.1	8092.0	7742.2	7321.9	6904.8	6548.6	6433.1	6259.9	6240.6
7.5°	8736.9	8701.6	8361.5	7758.3	6969.0	6179.7	5409.6	4899.4	4607.5	4360.4	4366.8
10°	9028.8	8926.2	8287.7	7171.1	5871.6	4681.3	3699.5	3025.7	2733.7	2640.6	2566.8
12.5°	9330.4	9131.5	8082.3	6378.6	4572.2	3198.9	2249.2	1838.5	1658.8	1601.1	1594.6
15°	9600.0	9285.5	7723.0	5425.7	3324.1	2043.8	1533.7	1398.9	1376.5	1379.7	1376.5
17.5°	9866.3	9407.5	7225.6	4415.0	2258.8	1466.3	1318.7	1286.6	1296.3	1309.1	1305.9
20°	10087.7	9433.1	6590.4	3369.0	1597.9	1286.6	1238.5	1232.1	1241.7	1251.3	1251.3
22.5°	10328.3	9452.4	5836.3	2332.6	1305.9	1196.8	1171.1	1171.1	1184.0	1196.8	1200.0
25°	10508.0	9346.5	4934.7	1674.9	1151.9	1110.2	1097.3	1100.5	1113.4	1119.8	1116.6
27.5°	10536.9	9048.1	3978.6	1283.4	1046.0	1004.3	991.4	1004.3	988.2	997.9	991.4
30°	10562.5	8669.5	3009.6	1081.3	949.7	885.6	866.3	847.1	834.2	818.2	815.0
32.5°	10642.7	8223.5	2197.9	972.2	859.9	789.3	744.4	689.8	648.1	635.3	632.1
35°	10678.0	7687.7	1613.9	885.6	779.7	702.7	622.5	545.5	484.5	462.0	478.1
37.5°	10812.8	7167.9	1251.3	821.4	709.1	612.8	510.2	413.9	356.1	343.3	349.7
40°	11088.7	6603.2	1049.2	766.8	648.1	529.4	404.3	311.2	272.7	259.9	256.7
42.5°	11531.5	6041.7	933.7	715.5	587.2	446.0	317.6	243.8	211.8	202.1	202.1
45°	12070.5	5502.7	853.5	661.0	523.0	359.4	250.3	195.7	176.5	170.1	170.1
47.5°	12779.6	5031.0	786.1	606.4	452.4	285.6	202.1	170.1	157.2	160.4	163.6
50°	13498.4	4681.3	712.3	545.5	372.2	234.2	173.3	150.8	147.6	150.8	150.8
52.5°	14040.6	4475.9	612.8	462.0	292.0	195.7	154.0	141.2	138.0	131.6	131.6
55°	14772.1	4431.0	487.7	375.4	231.0	163.6	138.0	128.3	118.7	112.3	109.1
57.5°	15712.2	4482.3	375.4	292.0	179.7	134.8	121.9	105.9	93.0	80.2	80.2
60°	16296.2	4366.8	292.0	224.6	131.6	109.1	93.0	77.0	61.0	51.3	48.1
62.5°	16110.1	3879.1	231.0	166.8	93.0	80.2	61.0	51.3	35.3	25.7	22.5
65°	15150.8	3131.5	186.1	115.5	67.4	48.1	32.1	32.1	16.0	3.2	0.0
67.5°	13260.9	2319.8	147.6	77.0	38.5	22.5	16.0	9.6	0.0	0.0	0.0
70°	10793.5	1674.9	115.5	48.1	22.5	16.0	6.4	3.2	0.0	0.0	0.0
72.5°	6853.5	959.4	89.8	28.9	16.0	6.4	0.0	0.0	0.0	0.0	0.0
75°	2650.3	375.4	61.0	19.3	6.4	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	750.8	176.5	35.3	9.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	195.7	77.0	19.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	93.0	32.1	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	54.5	12.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.7	3.2	0.0	0.0	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)