

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: P192675

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192675
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-AFL-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA 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: 33333.9 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 391
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



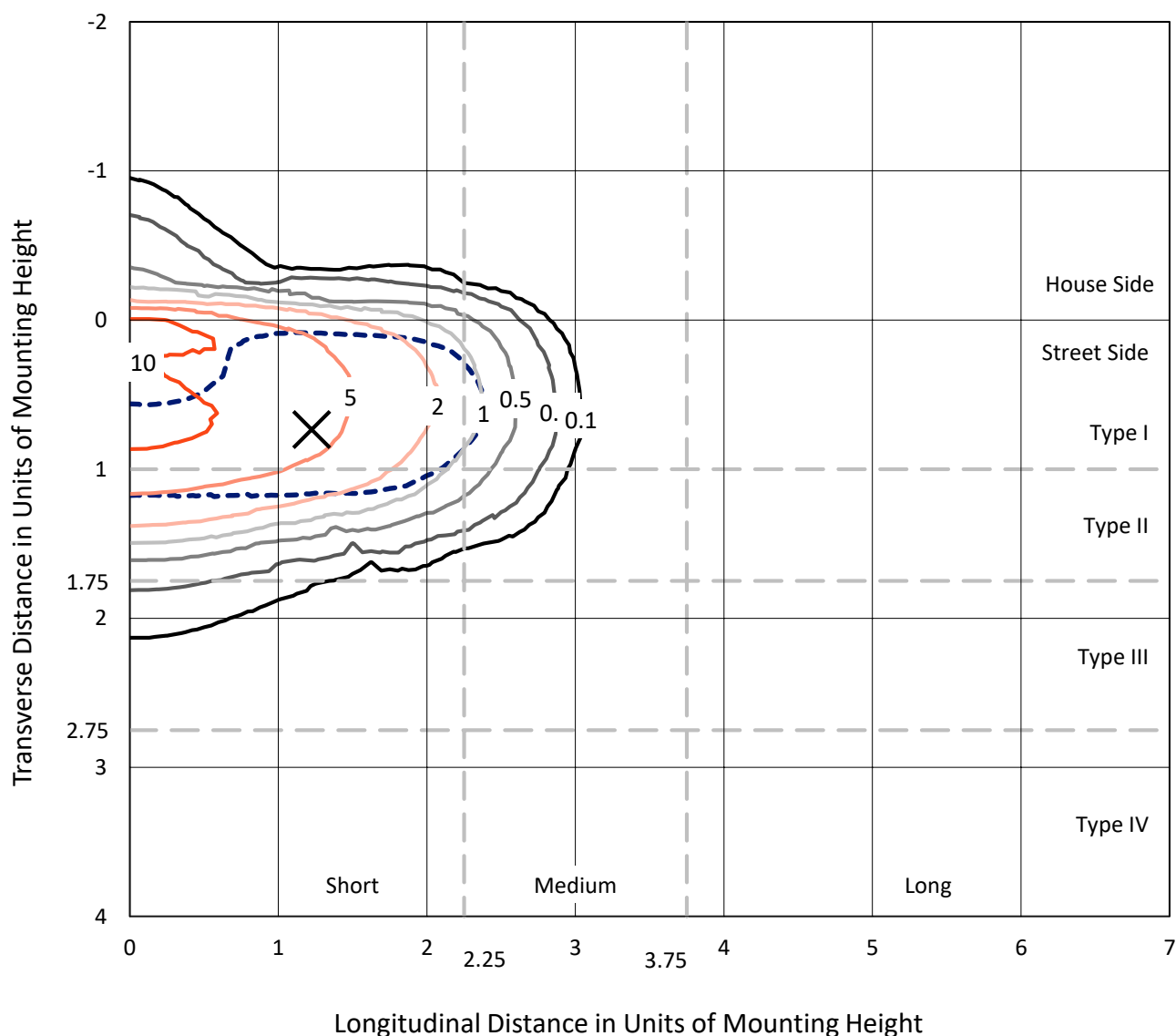
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

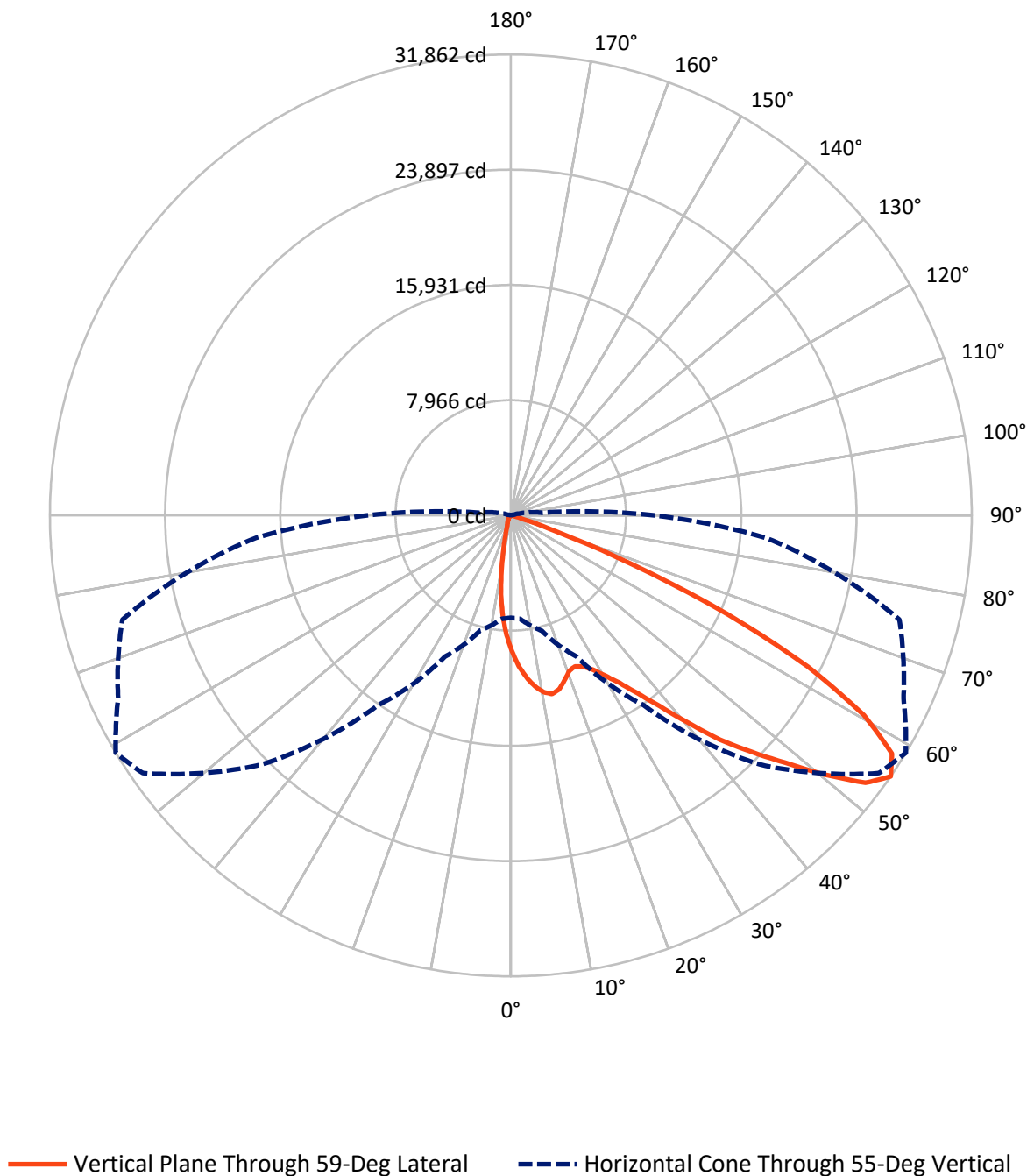


Based on 30 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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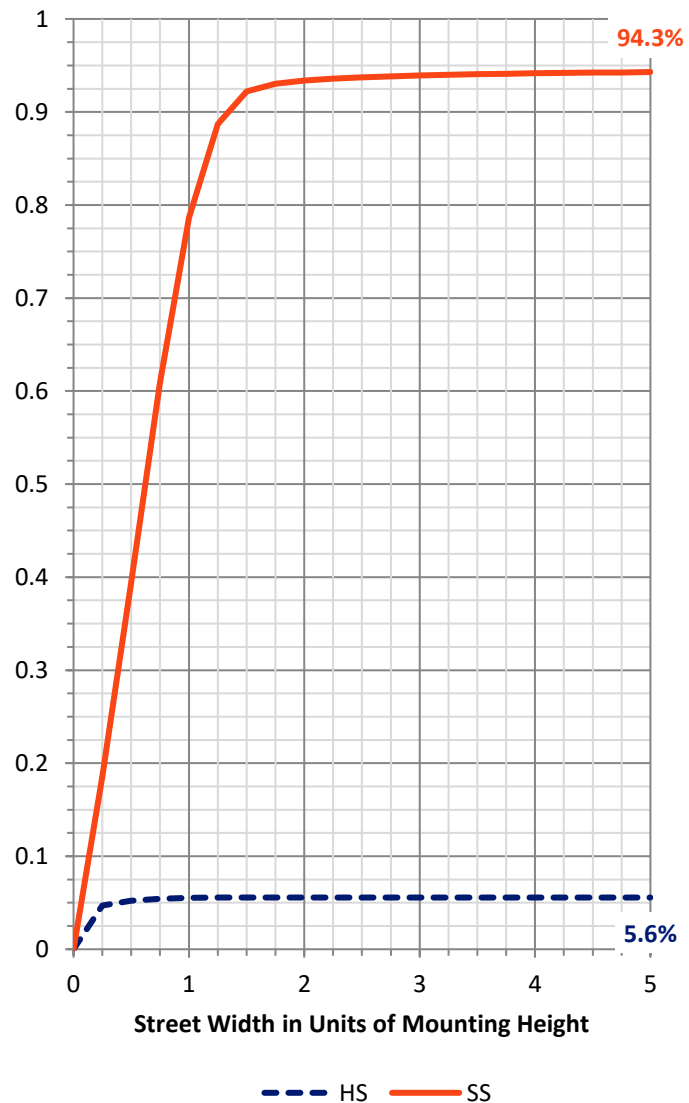
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1861.9	0.0	1861.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	31472.0	0.0	31472.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	33333.9	0.0	33333.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.0	2.4
10°-20°	1881.8	5.6
20°-30°	3202.1	9.6
30°-40°	5506.9	16.5
40°-50°	8502.1	25.5
50°-60°	8547.3	25.6
60°-70°	4383.1	13.1
70°-80°	475.0	1.4
80°-90°	49.6	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°	33333.9	100.0
0°-180°	33333.9	100.0

Coefficient of Utilization



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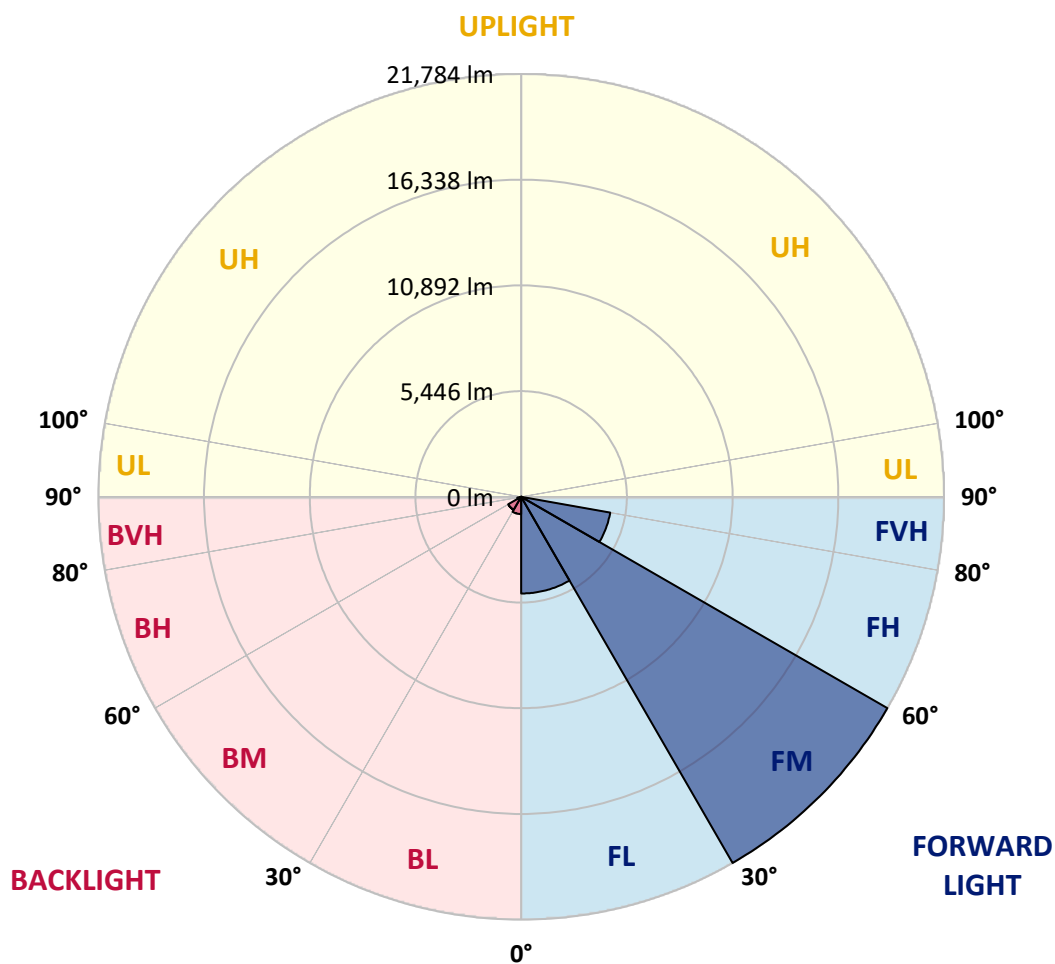
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4981.2	14.9			
FM	(30°-60°)	21783.6	65.3			
FH	(60°-80°)	4658.6	14.0			G2/5000
FVH	(80°-90°)	48.6	0.1			G1/100
BL	(0°-30°)	888.7	2.7	B2/1000		
BM	(30°-60°)	772.7	2.3	B1/1000		
BH	(60°-80°)	199.5	0.6	B1/500		G1/500
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4
2.5°	11102.7	10984.6	10949.2	10925.6	10817.4	10681.7	10496.7	10410.2	10233.2	9947.9	9597.8
5°	12119.7	12098.1	12019.4	11976.1	11860.0	11667.2	11372.1	11230.5	10949.2	10469.2	9841.7
7.5°	11675.1	11810.8	11919.1	12100.0	12328.3	12320.4	12072.5	11925.0	11610.2	10976.7	10113.1
10°	9957.8	10067.9	10245.0	10656.2	11494.2	12233.8	12524.9	12418.7	12166.9	11443.0	10374.8
12.5°	9621.4	9609.6	9641.0	9761.1	10199.8	11254.1	12448.2	12662.6	12611.5	11869.8	10622.7
15°	9800.4	9786.7	9782.7	9824.0	9930.2	10374.8	11871.8	12487.6	12883.0	12265.2	10833.2
17.5°	10302.0	10243.0	10211.6	10178.1	10146.7	10256.8	11179.4	11997.8	12924.3	12611.5	11008.2
20°	11161.7	11063.4	10947.2	10758.4	10581.4	10526.2	10888.2	11494.2	12776.8	12875.1	11122.4
22.5°	12241.6	12115.8	11915.2	11570.9	11210.9	11002.3	11031.9	11334.8	12556.4	13162.3	11175.5
25°	13455.4	13294.1	13026.6	12548.5	12019.4	11649.6	11456.8	11563.0	12456.1	13498.7	11236.4
27.5°	14755.7	14576.8	14226.5	13575.4	12975.4	12475.8	12082.3	12068.6	12627.2	13939.3	11334.8
30°	16044.1	16016.7	15560.2	14871.8	14077.1	13469.2	12902.7	12829.9	13105.2	14549.2	11529.6
32.5°	17763.5	17557.0	16998.2	16290.1	15373.5	14643.6	13972.7	13803.6	13839.0	15259.2	11830.5
35°	19931.3	19705.1	18918.2	17940.6	16915.6	16054.0	15312.3	15082.2	14995.8	16421.8	12338.1
37.5°	21331.9	21328.0	20834.2	19838.9	18739.2	17789.0	16982.5	16713.1	16537.9	17826.4	13124.9
40°	21369.3	21461.8	21526.7	21516.9	20733.9	19858.5	19142.4	18810.1	18402.9	19703.2	14142.0
42.5°	20222.5	20460.4	21033.0	22004.7	22468.9	22120.7	21516.9	21190.3	20584.5	21711.6	15381.3
45°	18672.3	18837.6	19838.9	21629.0	23409.3	24363.2	23902.9	23318.7	22520.1	23806.6	16492.6
47.5°	17977.9	18007.4	18654.6	20619.9	23480.1	26200.7	26480.0	25529.8	24278.7	25494.4	17362.2
50°	15902.5	15955.6	16848.8	18871.0	22649.9	27068.2	29068.8	28167.8	26196.8	26794.7	17678.9
52.5°	11986.0	12060.7	13193.8	15996.9	20368.0	26698.4	30921.9	30703.5	28297.7	27430.2	17696.6
55°	7072.0	7170.3	8252.3	10768.3	16020.5	24345.5	31059.5	31862.1	29955.9	27805.8	17669.1
57.5°	3302.9	3371.7	3991.3	5547.4	9963.7	19240.9	28986.2	31067.5	30870.7	28004.6	17863.8
60°	1754.7	1774.4	1923.8	2401.9	4502.8	12200.3	24939.7	28053.7	30036.7	28280.0	18101.8
62.5°	1341.6	1347.5	1339.6	1396.7	1892.4	5415.7	18851.4	23063.0	26678.7	28073.4	17838.2
65°	1162.6	1172.5	1117.4	1103.6	1213.8	1931.7	11199.1	16439.5	20964.1	25286.0	16042.2
67.5°	1042.6	1046.4	979.6	922.5	942.3	1044.5	4418.2	8999.8	13876.4	18534.6	11627.9
70°	960.0	956.0	883.3	792.7	767.2	714.1	1404.5	3299.0	6631.3	9399.1	5407.8
72.5°	849.8	851.7	816.3	698.3	637.3	499.7	651.1	961.9	1979.0	2561.2	1266.9
75°	753.5	743.6	700.4	625.5	525.2	328.6	322.7	428.9	609.7	605.9	273.4
77.5°	544.8	535.1	548.8	513.4	403.2	212.4	161.2	206.5	247.9	240.1	76.7
80°	399.4	393.5	354.1	426.8	356.0	145.6	100.3	110.2	127.9	108.1	23.6
82.5°	273.4	271.5	249.8	236.1	202.5	88.5	63.0	68.9	82.6	60.9	11.8
85°	43.2	49.1	181.0	143.5	119.9	39.4	43.2	47.2	55.0	33.5	4.0
87.5°	0.0	0.0	84.5	74.8	23.6	15.8	25.5	27.6	27.6	17.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4	9383.4
2.5°	9418.8	9222.0	8858.2	8482.5	8134.3	7719.1	7433.9	7219.6	6971.7	6904.7	7050.3
5°	9483.7	9111.9	8329.0	7477.1	6676.5	5789.3	5110.7	4573.7	4087.7	3922.5	4072.0
7.5°	9586.0	9033.2	7756.6	6354.0	4961.1	3576.3	2628.1	2004.6	1607.2	1489.1	1552.1
10°	9688.2	8919.2	7093.5	5024.2	3119.9	1740.9	1133.1	904.8	820.3	802.6	812.5
12.5°	9772.9	8765.7	6285.1	3572.3	1668.2	932.4	741.7	704.2	692.4	692.4	696.4
15°	9824.0	8533.5	5327.1	2272.0	960.0	704.2	647.2	635.4	635.4	637.3	641.3
17.5°	9818.1	8238.4	4278.6	1375.0	718.1	623.6	590.1	580.2	578.3	582.3	584.2
20°	9745.4	7852.9	3226.1	906.9	625.5	568.4	535.1	517.4	515.3	519.3	523.3
22.5°	9607.6	7376.8	2307.4	698.3	564.6	515.3	474.0	458.4	458.4	462.2	466.2
25°	9440.4	6794.7	1577.7	592.0	509.4	458.4	419.0	405.3	409.1	419.0	420.9
27.5°	9231.9	6139.5	1072.1	507.5	442.6	401.3	371.8	361.9	371.8	385.5	389.5
30°	9052.9	5457.0	765.3	438.6	375.8	346.3	328.6	328.6	342.3	367.8	373.7
32.5°	8915.2	4795.9	590.1	387.6	326.5	301.0	291.1	301.0	322.7	348.2	354.1
35°	8897.5	4251.1	499.7	346.3	291.1	265.6	261.6	279.3	301.0	320.6	324.6
37.5°	9033.2	3747.5	450.4	312.8	259.7	236.1	232.1	253.8	275.5	299.1	305.0
40°	9291.0	3352.1	415.0	281.4	234.2	208.4	200.6	216.5	246.0	277.4	285.2
42.5°	9625.3	3025.5	375.8	249.8	208.4	173.0	163.3	181.0	212.4	246.0	255.7
45°	9944.0	2744.1	332.4	214.3	175.1	133.8	129.8	153.4	169.2	202.5	210.5
47.5°	10119.0	2496.3	295.1	175.1	135.7	108.1	108.1	114.0	129.8	169.2	177.0
50°	10060.0	2297.6	255.7	129.8	94.4	82.6	82.6	80.7	104.3	135.7	141.6
52.5°	9942.0	2183.5	220.3	100.3	64.9	59.0	53.1	59.0	72.7	86.6	88.5
55°	9924.3	2163.9	184.8	80.7	45.3	39.4	29.5	29.5	29.5	27.6	23.6
57.5°	10062.0	2195.3	155.3	64.9	33.5	25.5	15.8	0.0	0.0	0.0	0.0
60°	10203.7	2228.8	133.8	45.3	23.6	13.7	1.9	0.0	0.0	0.0	0.0
62.5°	9967.6	2154.0	112.1	27.6	17.7	5.9	0.0	0.0	0.0	0.0	0.0
65°	8755.8	1833.4	88.5	19.6	11.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6228.0	1227.5	59.0	11.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2842.6	513.4	37.3	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	607.8	159.3	25.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	123.9	116.1	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	39.4	182.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	23.6	131.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.0	19.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	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)