

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: P192683

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7030-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192683
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-05-LED-U-AFL-7030-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 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: 25838.7 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 320
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

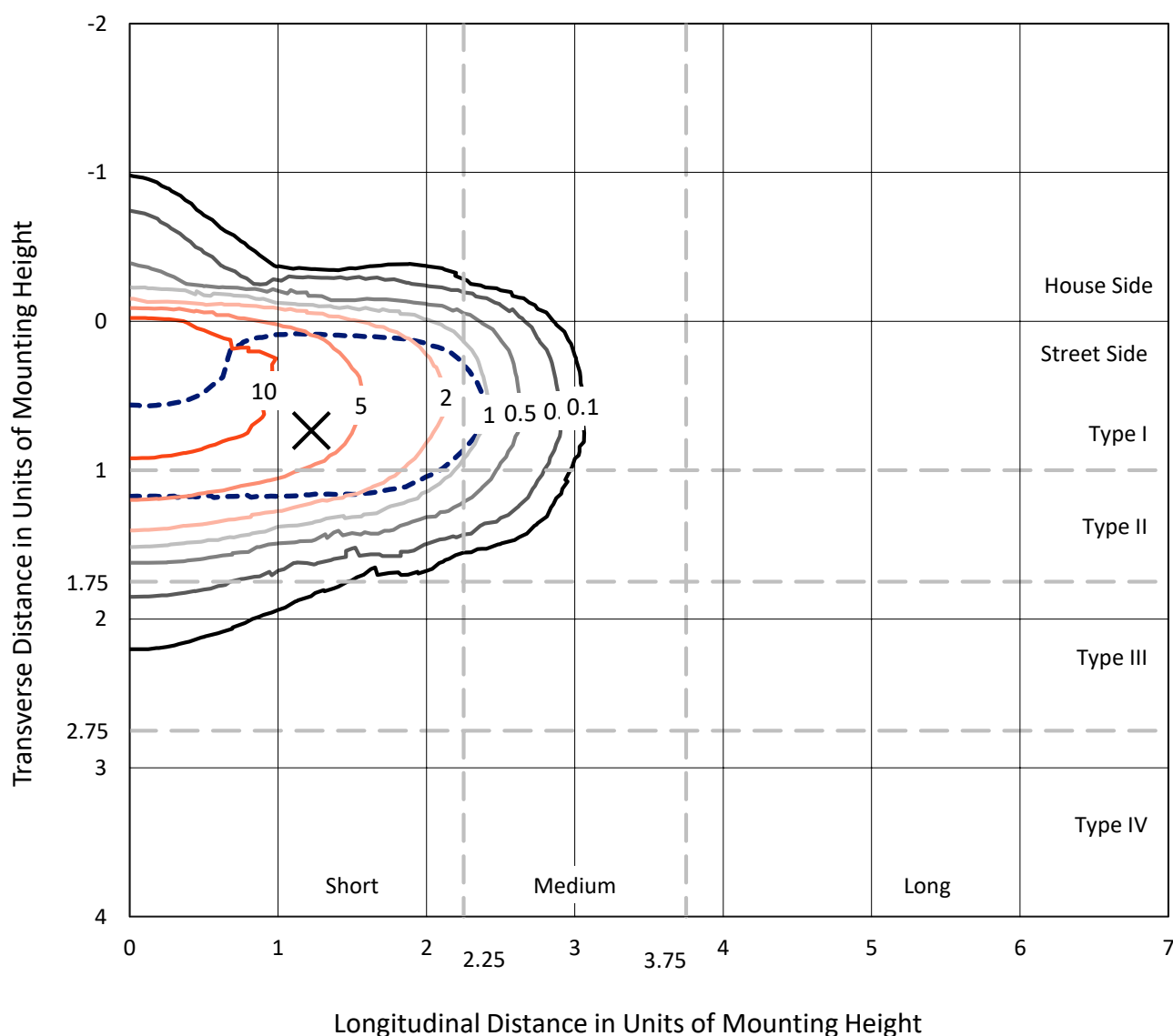


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

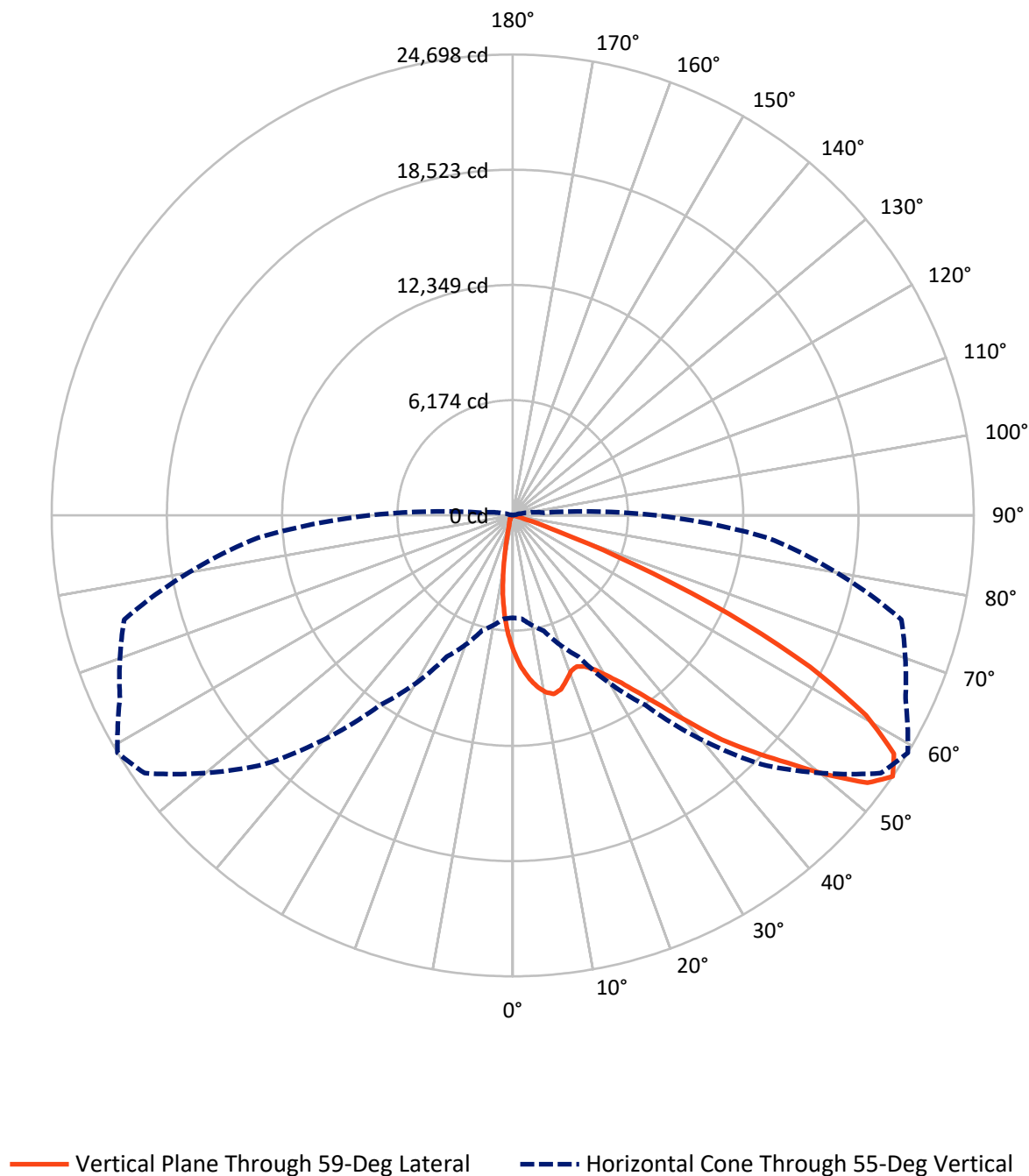


Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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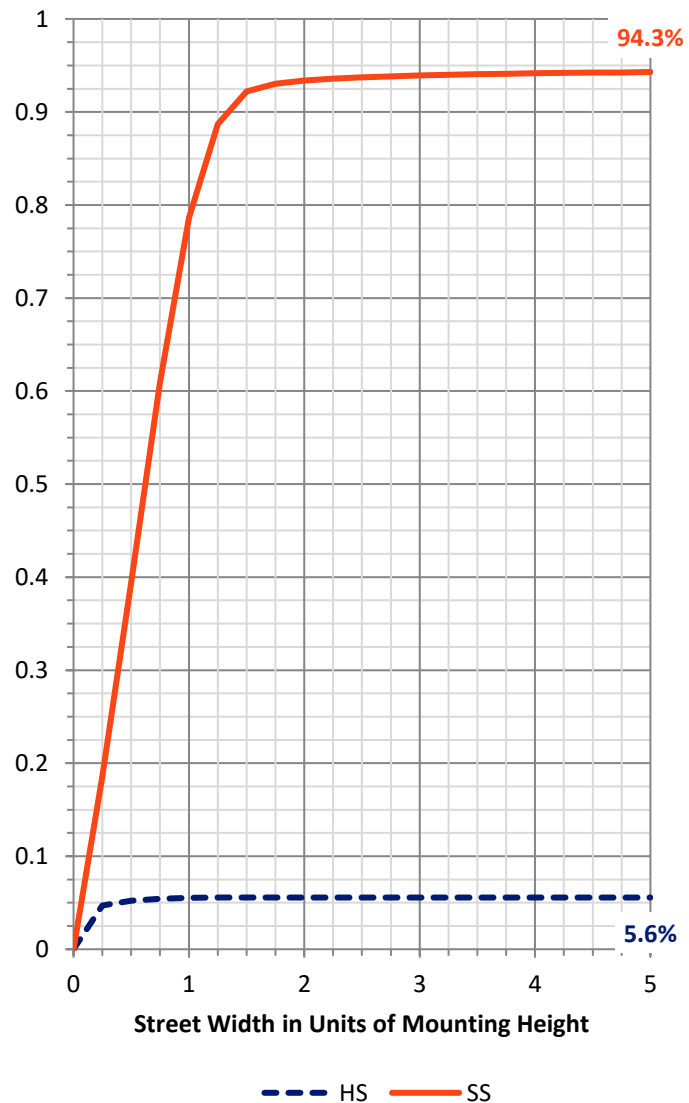
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1443.2	0.0	1443.2
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	24395.5	0.0	24395.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	25838.7	0.0	25838.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	609.2	2.4
10°-20°	1458.7	5.6
20°-30°	2482.1	9.6
30°-40°	4268.7	16.5
40°-50°	6590.4	25.5
50°-60°	6625.4	25.6
60°-70°	3397.6	13.1
70°-80°	368.2	1.4
80°-90°	38.5	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°	25838.7	100.0
0°-180°	25838.7	100.0

Coefficient of Utilization



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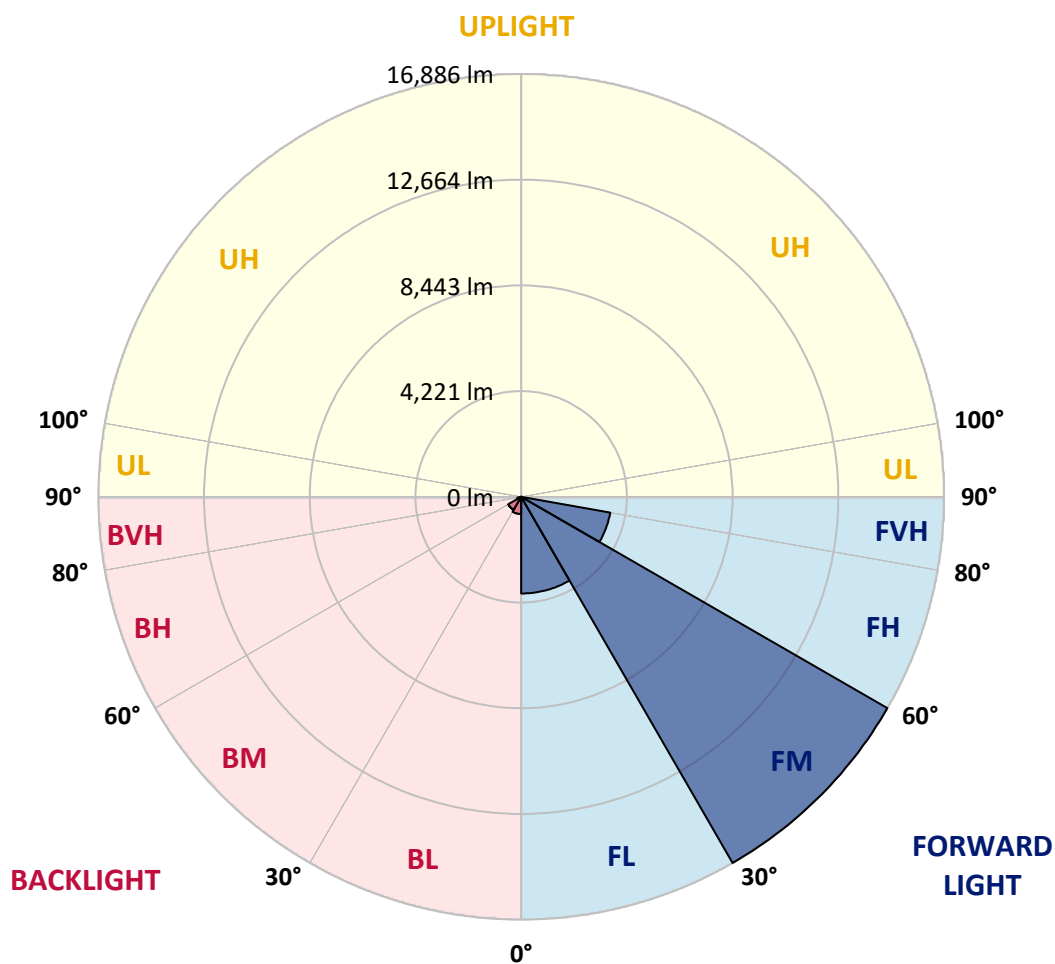
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3861.2	14.9			
FM	(30°-60°)	16885.5	65.3			
FH	(60°-80°)	3611.1	14.0			G2/5000
FVH	(80°-90°)	37.7	0.1			G1/100
BL	(0°-30°)	688.9	2.7	B2/1000		
BM	(30°-60°)	599.0	2.3	B1/1000		
BH	(60°-80°)	154.6	0.6	B1/500		G1/500
BVH	(80°-90°)	0.8	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°	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5
2.5°	8606.3	8514.7	8487.3	8469.0	8385.1	8279.8	8136.5	8069.5	7932.2	7711.2	7439.7
5°	9394.5	9377.8	9316.7	9283.2	9193.3	9043.8	8815.1	8705.3	8487.3	8115.2	7628.8
7.5°	9050.0	9155.2	9239.1	9379.4	9556.3	9550.2	9357.9	9243.6	8999.6	8508.7	7839.3
10°	7718.7	7804.2	7941.4	8260.1	8909.6	9483.0	9708.7	9626.4	9431.1	8870.0	8042.0
12.5°	7458.0	7448.9	7473.3	7566.3	7906.3	8723.6	9649.2	9815.5	9775.8	9200.9	8234.1
15°	7596.8	7586.1	7583.0	7615.1	7697.5	8042.0	9202.5	9679.8	9986.2	9507.4	8397.3
17.5°	7985.6	7939.9	7915.5	7889.5	7865.1	7950.6	8665.7	9300.0	10018.2	9775.8	8533.0
20°	8651.9	8575.8	8485.7	8339.3	8202.1	8159.5	8440.1	8909.6	9904.0	9980.1	8621.4
22.5°	9489.0	9391.5	9236.0	8969.1	8690.1	8528.4	8551.2	8786.2	9733.1	10202.7	8662.6
25°	10429.9	10304.9	10097.5	9727.1	9316.7	9030.2	8880.7	8963.1	9655.4	10463.4	8709.9
27.5°	11437.8	11299.0	11027.6	10523.0	10057.9	9670.5	9365.6	9354.9	9788.0	10805.0	8786.2
30°	12436.7	12415.2	12061.5	11527.8	10911.8	10440.6	10001.5	9945.0	10158.5	11277.7	8937.1
32.5°	13769.3	13609.3	13176.2	12627.2	11916.7	11351.0	10831.0	10699.9	10727.3	11828.2	9170.4
35°	15449.7	15274.3	14664.4	13906.6	13112.1	12444.3	11869.4	11691.0	11623.9	12729.4	9563.8
37.5°	16535.4	16532.3	16149.6	15378.0	14525.7	13789.2	13164.0	12955.1	12819.4	13818.1	10173.7
40°	16564.4	16636.1	16686.4	16678.8	16071.8	15393.3	14838.3	14580.5	14264.9	15272.8	10962.1
42.5°	15675.4	15859.8	16303.6	17056.9	17416.8	17146.8	16678.8	16425.6	15956.0	16829.8	11922.8
45°	14473.8	14602.0	15378.0	16765.7	18145.7	18885.3	18528.4	18075.6	17456.5	18453.7	12784.3
47.5°	13935.6	13958.4	14460.1	15983.4	18200.5	20309.4	20525.9	19789.5	18819.6	19761.9	13458.2
50°	12326.8	12368.0	13060.3	14627.8	17557.1	20981.8	22532.6	21834.3	20306.4	20769.8	13703.8
52.5°	9290.9	9348.8	10227.1	12400.1	15788.3	20695.3	23969.1	23799.7	21934.9	21262.4	13717.5
55°	5481.9	5558.0	6396.7	8347.0	12418.3	18871.5	24075.8	24697.9	23220.4	21553.7	13696.2
57.5°	2560.2	2613.6	3093.9	4300.0	7723.3	14914.6	22468.6	24081.9	23929.4	21707.6	13847.1
60°	1360.2	1375.3	1491.3	1861.9	3490.4	9457.1	19332.0	21745.8	23282.8	21921.1	14031.6
62.5°	1039.9	1044.5	1038.4	1082.6	1467.0	4197.8	14612.6	17877.3	20679.9	21761.0	13827.3
65°	901.2	908.8	866.1	855.4	940.8	1497.4	8680.9	12743.1	16250.2	19600.3	12435.2
67.5°	808.2	811.2	759.4	715.1	730.4	809.7	3424.8	6976.2	10756.2	14367.0	9013.4
70°	744.2	741.1	684.6	614.5	594.7	553.5	1088.8	2557.2	5140.2	7285.7	4191.8
72.5°	658.8	660.3	632.8	541.3	494.1	387.4	504.8	745.7	1534.0	1985.4	982.0
75°	584.0	576.4	542.8	484.9	407.1	254.7	250.1	332.3	472.6	469.7	212.0
77.5°	422.4	414.7	425.4	398.0	312.6	164.7	125.0	160.1	192.1	186.1	59.4
80°	309.5	305.0	274.5	330.8	276.0	112.9	77.8	85.4	99.1	83.9	18.2
82.5°	212.0	210.5	193.6	183.0	157.0	68.7	48.8	53.3	64.0	47.3	9.2
85°	33.6	38.1	140.3	111.3	93.0	30.5	33.6	36.6	42.7	25.9	3.1
87.5°	0.0	0.0	65.5	57.9	18.2	12.2	19.7	21.3	21.3	13.7	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°	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5	7273.5
2.5°	7300.9	7148.5	6866.4	6575.1	6305.3	5983.5	5762.4	5596.2	5404.1	5352.2	5465.0
5°	7351.3	7063.1	6456.2	5795.9	5175.3	4487.6	3961.5	3545.3	3168.6	3040.5	3156.4
7.5°	7430.6	7002.1	6012.4	4925.3	3845.7	2772.1	2037.1	1553.7	1245.8	1154.4	1203.1
10°	7509.8	6913.6	5498.6	3894.4	2418.5	1349.5	878.3	701.5	635.9	622.1	629.8
12.5°	7575.4	6794.8	4871.9	2769.0	1293.1	722.8	574.8	545.9	536.8	536.8	539.7
15°	7615.1	6614.8	4129.2	1761.2	744.2	545.9	501.7	492.5	492.5	494.1	497.1
17.5°	7610.5	6386.1	3316.6	1065.9	556.5	483.4	457.5	449.8	448.3	451.4	452.9
20°	7554.0	6087.2	2500.7	703.0	484.9	440.7	414.7	401.0	399.6	402.5	405.6
22.5°	7447.3	5718.2	1788.7	541.3	437.6	399.6	367.4	355.3	355.3	358.4	361.4
25°	7317.7	5266.9	1222.9	459.0	395.0	355.3	324.8	314.1	317.2	324.8	326.3
27.5°	7156.1	4759.0	831.0	393.5	343.1	311.1	288.2	280.6	288.2	298.9	301.9
30°	7017.2	4230.0	593.2	340.1	291.2	268.3	254.7	254.7	265.3	285.1	289.7
32.5°	6910.6	3717.5	457.5	300.4	253.2	233.3	225.7	233.3	250.1	269.9	274.5
35°	6896.9	3295.2	387.4	268.3	225.7	205.9	202.7	216.6	233.3	248.6	251.7
37.5°	7002.1	2904.8	349.2	242.4	201.2	183.0	180.0	196.6	213.5	231.7	236.3
40°	7201.9	2598.3	321.8	218.1	181.5	161.6	155.5	167.7	190.6	215.0	221.1
42.5°	7461.1	2345.2	291.2	193.6	161.6	134.2	126.5	140.3	164.7	190.6	198.2
45°	7708.1	2127.2	257.8	166.2	135.7	103.7	100.6	119.0	131.1	157.0	163.2
47.5°	7843.8	1935.0	228.7	135.7	105.2	83.9	83.9	88.4	100.6	131.1	137.2
50°	7798.1	1781.0	198.2	100.6	73.2	64.0	64.0	62.5	80.9	105.2	109.8
52.5°	7706.6	1692.5	170.8	77.8	50.4	45.8	41.2	45.8	56.4	67.0	68.7
55°	7692.8	1677.3	143.3	62.5	35.1	30.5	22.8	22.8	22.8	21.3	18.2
57.5°	7799.6	1701.7	120.5	50.4	25.9	19.7	12.2	0.0	0.0	0.0	0.0
60°	7909.4	1727.6	103.7	35.1	18.2	10.7	1.5	0.0	0.0	0.0	0.0
62.5°	7726.4	1669.7	87.0	21.3	13.7	4.6	0.0	0.0	0.0	0.0	0.0
65°	6787.0	1421.1	68.7	15.3	9.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4827.6	951.5	45.8	9.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	2203.4	398.0	29.0	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	471.1	123.5	19.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	96.0	89.9	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	30.5	141.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.2	102.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.1	15.3	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)