

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: P192653

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192653
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-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 15519.2 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 162
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



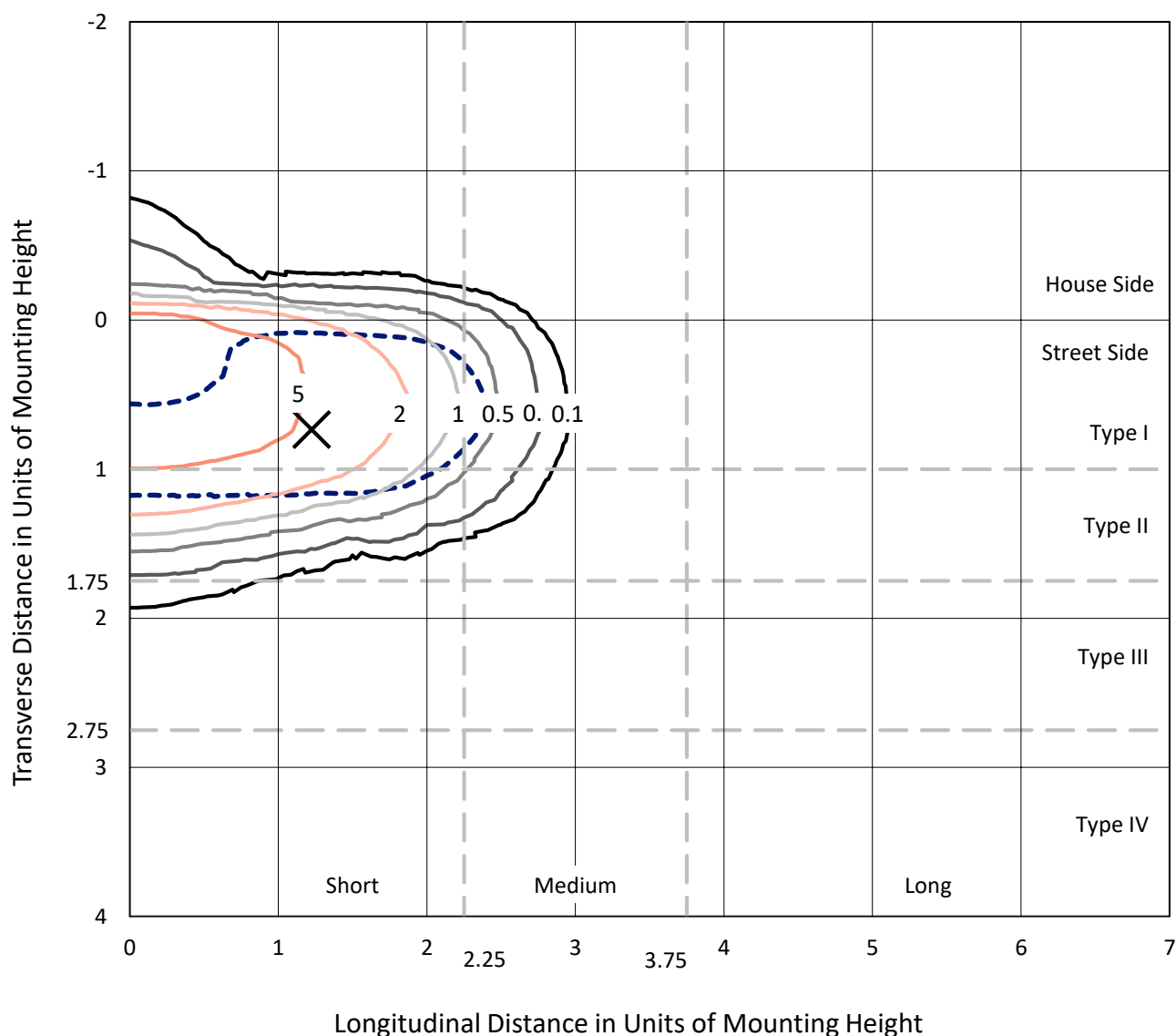
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

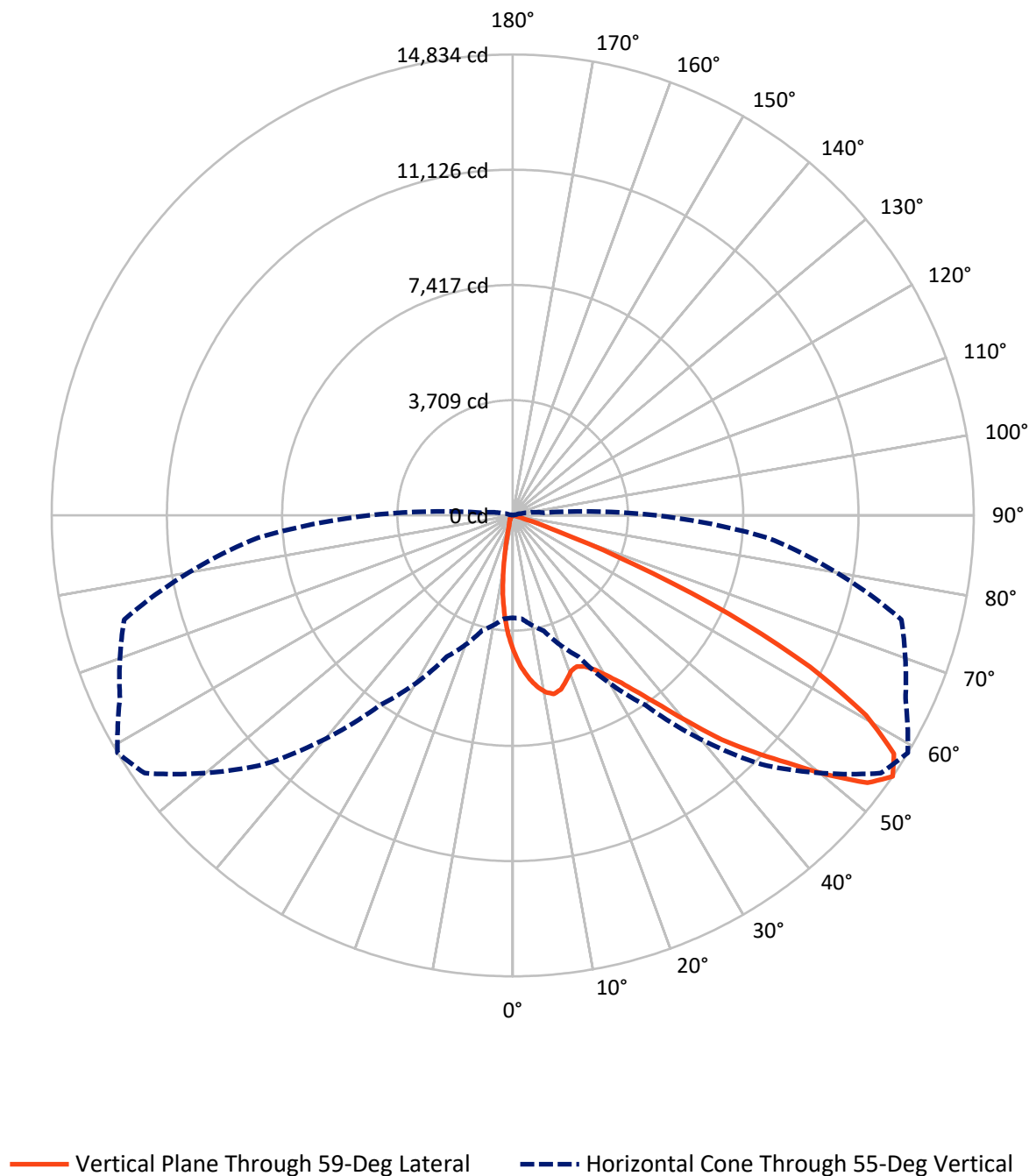


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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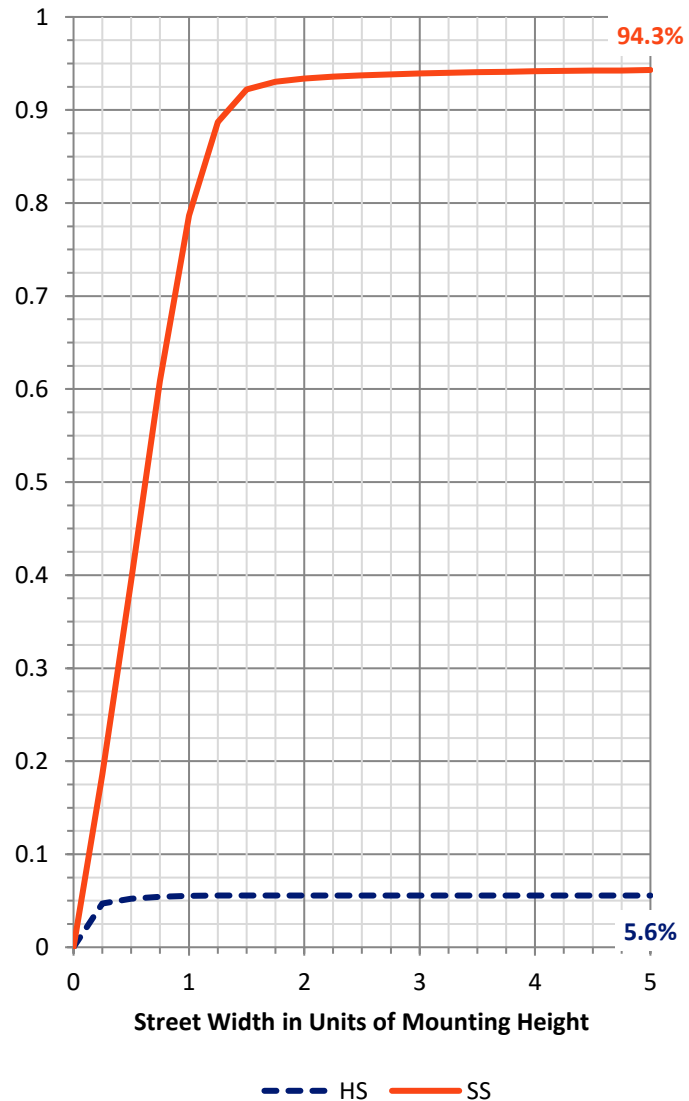
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	866.8	0.0	866.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	14652.4	0.0	14652.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	15519.2	0.0	15519.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.9	2.4
10°-20°	876.1	5.6
20°-30°	1490.8	9.6
30°-40°	2563.8	16.5
40°-50°	3958.3	25.5
50°-60°	3979.3	25.6
60°-70°	2040.6	13.1
70°-80°	221.1	1.4
80°-90°	23.1	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°	15519.2	100.0
0°-180°	15519.2	100.0

Coefficient of Utilization



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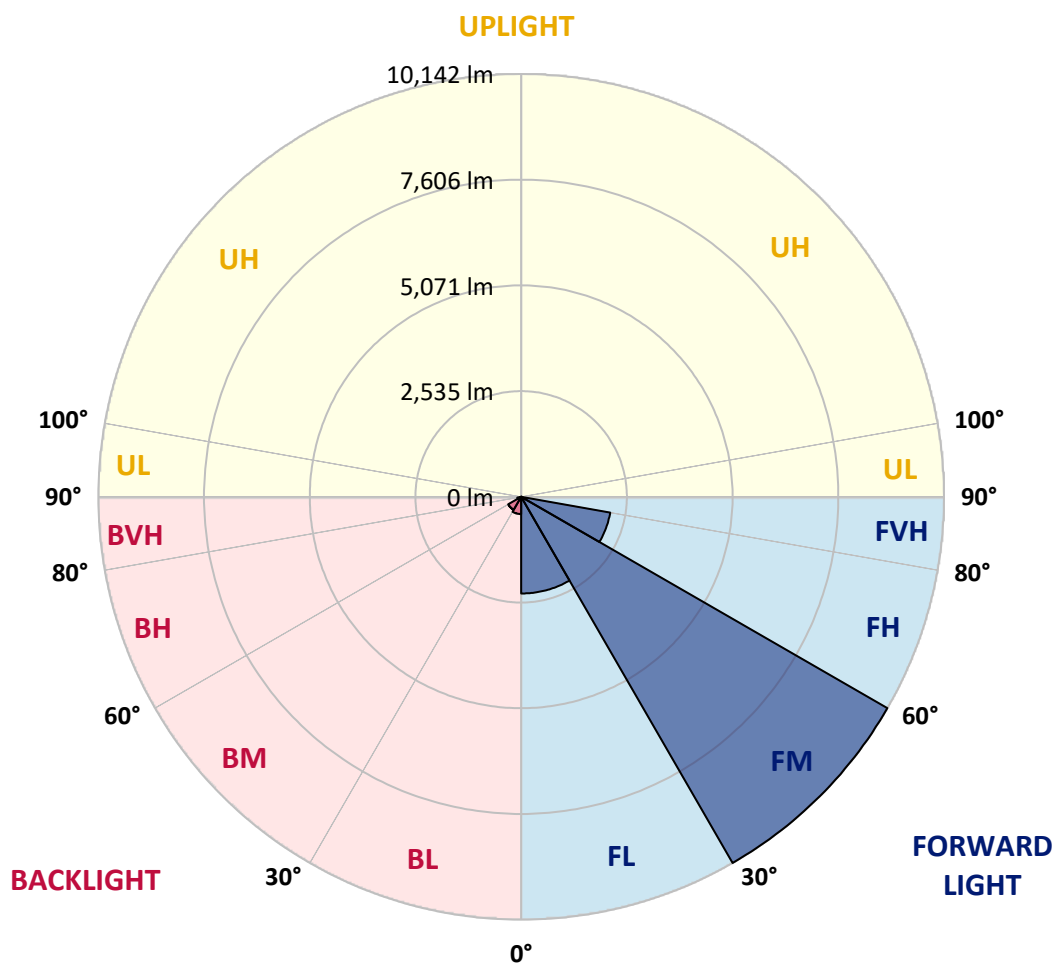
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2319.1	14.9			
FM	(30°-60°)	10141.7	65.3			
FH	(60°-80°)	2168.9	14.0			G2/5000
FVH	(80°-90°)	22.6	0.1			G1/100
BL	(0°-30°)	413.7	2.7	B1/500		
BM	(30°-60°)	359.8	2.3	B1/1000		
BH	(60°-80°)	92.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6
2.5°	5169.0	5114.1	5097.6	5086.6	5036.2	4973.1	4886.9	4846.6	4764.2	4631.4	4468.3
5°	5642.5	5632.5	5595.8	5575.7	5521.6	5432.0	5294.4	5228.6	5097.6	4874.2	4582.0
7.5°	5435.5	5498.8	5549.2	5633.4	5739.6	5736.0	5620.6	5551.9	5405.4	5110.4	4708.4
10°	4636.0	4687.3	4769.7	4961.1	5351.3	5695.6	5831.1	5781.8	5664.5	5327.5	4830.2
12.5°	4479.4	4473.9	4488.6	4544.4	4748.6	5239.5	5795.4	5895.3	5871.5	5526.3	4945.6
15°	4562.7	4556.3	4554.5	4573.7	4623.2	4830.2	5527.1	5813.8	5997.9	5710.3	5043.6
17.5°	4796.3	4768.8	4754.2	4738.6	4724.0	4775.2	5204.8	5585.8	6017.1	5871.5	5125.2
20°	5196.5	5150.7	5096.7	5008.8	4926.4	4900.8	5069.2	5351.3	5948.4	5994.2	5178.3
22.5°	5699.3	5640.7	5547.3	5387.0	5219.5	5122.3	5136.1	5277.1	5845.8	6128.0	5202.9
25°	6264.4	6189.3	6064.8	5842.2	5595.8	5423.6	5333.9	5383.3	5799.2	6284.6	5231.4
27.5°	6869.7	6786.4	6623.4	6320.3	6041.0	5808.3	5625.1	5618.7	5878.8	6489.7	5277.1
30°	7469.6	7456.8	7244.3	6923.8	6553.8	6270.8	6007.1	5973.2	6101.4	6773.6	5367.8
32.5°	8270.2	8173.9	7913.8	7584.1	7157.3	6817.6	6505.3	6426.5	6443.0	7104.2	5507.9
35°	9279.4	9174.1	8807.7	8352.6	7875.4	7474.2	7128.9	7021.8	6981.5	7645.5	5744.2
37.5°	9931.4	9929.6	9699.7	9236.3	8724.4	8282.0	7906.5	7781.0	7699.5	8299.5	6110.6
40°	9948.8	9991.9	10022.2	10017.6	9653.0	9245.5	8912.2	8757.3	8567.8	9173.1	6584.1
42.5°	9414.9	9525.8	9792.3	10244.7	10460.8	10298.7	10017.6	9865.6	9583.4	10108.2	7161.0
45°	8693.2	8770.1	9236.3	10069.8	10898.6	11342.8	11128.5	10856.4	10484.6	11083.6	7678.5
47.5°	8370.0	8383.7	8685.0	9599.9	10931.6	12198.1	12328.3	11885.9	11303.4	11869.4	8083.3
50°	7403.7	7428.4	7844.3	8785.7	10545.0	12602.1	13533.5	13114.1	12196.4	12474.7	8230.7
52.5°	5580.3	5615.1	6142.5	7447.6	9482.7	12429.9	14396.2	14294.6	13174.5	12770.6	8239.0
55°	3292.5	3338.3	3842.0	5013.4	7458.7	11334.5	14460.4	14834.0	13946.5	12945.5	8226.1
57.5°	1537.8	1569.7	1858.3	2582.7	4638.8	8957.9	13495.0	14464.0	14372.4	13038.0	8316.9
60°	816.9	826.1	895.7	1118.3	2096.3	5680.1	11611.1	13061.0	13984.1	13166.2	8427.6
62.5°	624.6	627.3	623.7	650.2	881.0	2521.3	8776.6	10737.5	12420.7	13070.0	8304.9
65°	541.3	545.9	520.2	513.7	565.1	899.3	5214.0	7653.7	9760.2	11772.3	7468.8
67.5°	485.4	487.2	456.0	429.5	438.6	486.3	2057.1	4190.0	6460.4	8629.1	5413.6
70°	447.0	445.1	411.3	369.1	357.2	332.4	653.9	1535.8	3087.3	4376.0	2517.7
72.5°	395.6	396.6	380.1	325.1	296.7	232.6	303.2	447.9	921.4	1192.4	589.8
75°	350.7	346.3	326.0	291.2	244.5	153.0	150.2	199.6	284.0	282.1	127.3
77.5°	253.7	249.1	255.5	239.1	187.7	98.9	75.1	96.1	115.4	111.8	35.7
80°	186.0	183.1	164.9	198.8	165.7	67.7	46.7	51.3	59.5	50.4	11.0
82.5°	127.3	126.4	116.4	110.0	94.3	41.2	29.3	32.0	38.5	28.4	5.5
85°	20.1	23.0	84.2	66.8	55.8	18.3	20.1	22.0	25.6	15.6	1.8
87.5°	0.0	0.0	39.4	34.9	11.0	7.3	11.9	12.8	12.8	8.2	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°	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6	4368.6
2.5°	4385.1	4293.5	4124.1	3949.1	3787.0	3593.7	3461.0	3361.2	3245.8	3214.6	3282.3
5°	4415.2	4242.2	3877.7	3481.1	3108.4	2695.3	2379.3	2129.4	1903.1	1826.2	1895.7
7.5°	4462.9	4205.6	3611.2	2958.2	2309.7	1665.0	1223.6	933.3	748.2	693.2	722.6
10°	4510.6	4152.5	3302.6	2339.0	1452.5	810.4	527.5	421.3	381.9	373.6	378.2
12.5°	4549.9	4081.1	2926.2	1663.2	776.7	434.1	345.3	327.9	322.5	322.5	324.2
15°	4573.7	3973.0	2480.0	1057.8	447.0	327.9	301.3	295.8	295.8	296.7	298.6
17.5°	4571.0	3835.5	1992.1	640.1	334.4	290.3	274.8	270.2	269.3	271.1	272.0
20°	4537.1	3656.1	1502.0	422.2	291.2	264.6	249.1	240.9	240.0	241.8	243.6
22.5°	4473.0	3434.4	1074.2	325.1	262.9	240.0	220.7	213.4	213.4	215.2	217.1
25°	4395.2	3163.4	734.6	275.7	237.2	213.4	195.0	188.7	190.5	195.0	196.0
27.5°	4298.0	2858.3	499.1	236.3	206.1	186.9	173.0	168.5	173.0	179.5	181.4
30°	4214.7	2540.6	356.3	204.2	175.0	161.1	153.0	153.0	159.4	171.2	174.0
32.5°	4150.6	2232.8	274.8	180.4	152.0	140.1	135.6	140.1	150.2	162.1	164.9
35°	4142.3	1979.1	232.6	161.1	135.6	123.7	121.9	130.0	140.1	149.2	151.1
37.5°	4205.6	1744.7	209.8	145.7	120.8	110.0	108.0	118.1	128.3	139.2	141.9
40°	4325.6	1560.7	193.3	131.0	108.9	97.1	93.4	100.7	114.5	129.2	132.8
42.5°	4481.3	1408.6	175.0	116.4	97.1	80.7	76.1	84.2	98.9	114.5	119.1
45°	4629.7	1277.6	154.8	99.9	81.5	62.3	60.4	71.4	78.7	94.3	98.0
47.5°	4711.2	1162.2	137.3	81.5	63.2	50.4	50.4	53.1	60.4	78.7	82.4
50°	4683.6	1069.7	119.1	60.4	43.9	38.5	38.5	37.5	48.5	63.2	66.0
52.5°	4628.7	1016.5	102.6	46.7	30.3	27.5	24.7	27.5	33.9	40.3	41.2
55°	4620.5	1007.5	86.1	37.5	21.1	18.3	13.7	13.7	13.7	12.8	11.0
57.5°	4684.6	1022.1	72.3	30.3	15.6	11.9	7.3	0.0	0.0	0.0	0.0
60°	4750.5	1037.6	62.3	21.1	11.0	6.4	0.9	0.0	0.0	0.0	0.0
62.5°	4640.6	1002.9	52.2	12.8	8.2	2.7	0.0	0.0	0.0	0.0	0.0
65°	4076.5	853.6	41.2	9.2	5.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2899.5	571.5	27.5	5.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1323.3	239.1	17.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	283.0	74.2	11.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	57.7	54.1	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.3	85.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.0	61.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	9.2	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)