

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: P192662

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192662
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-04-LED-U-AFL-7030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 800mA 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: 15359.7 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 171
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



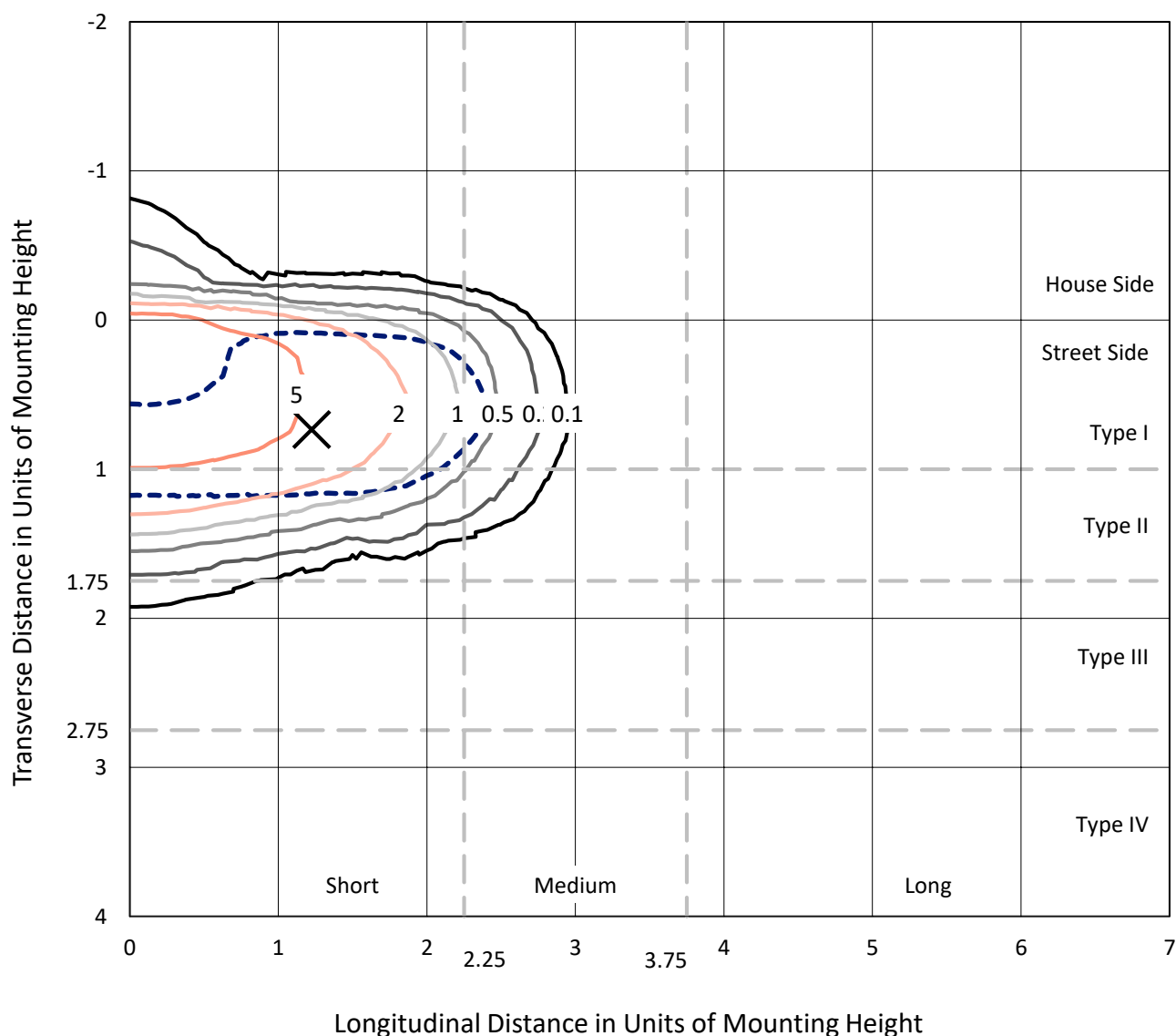
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

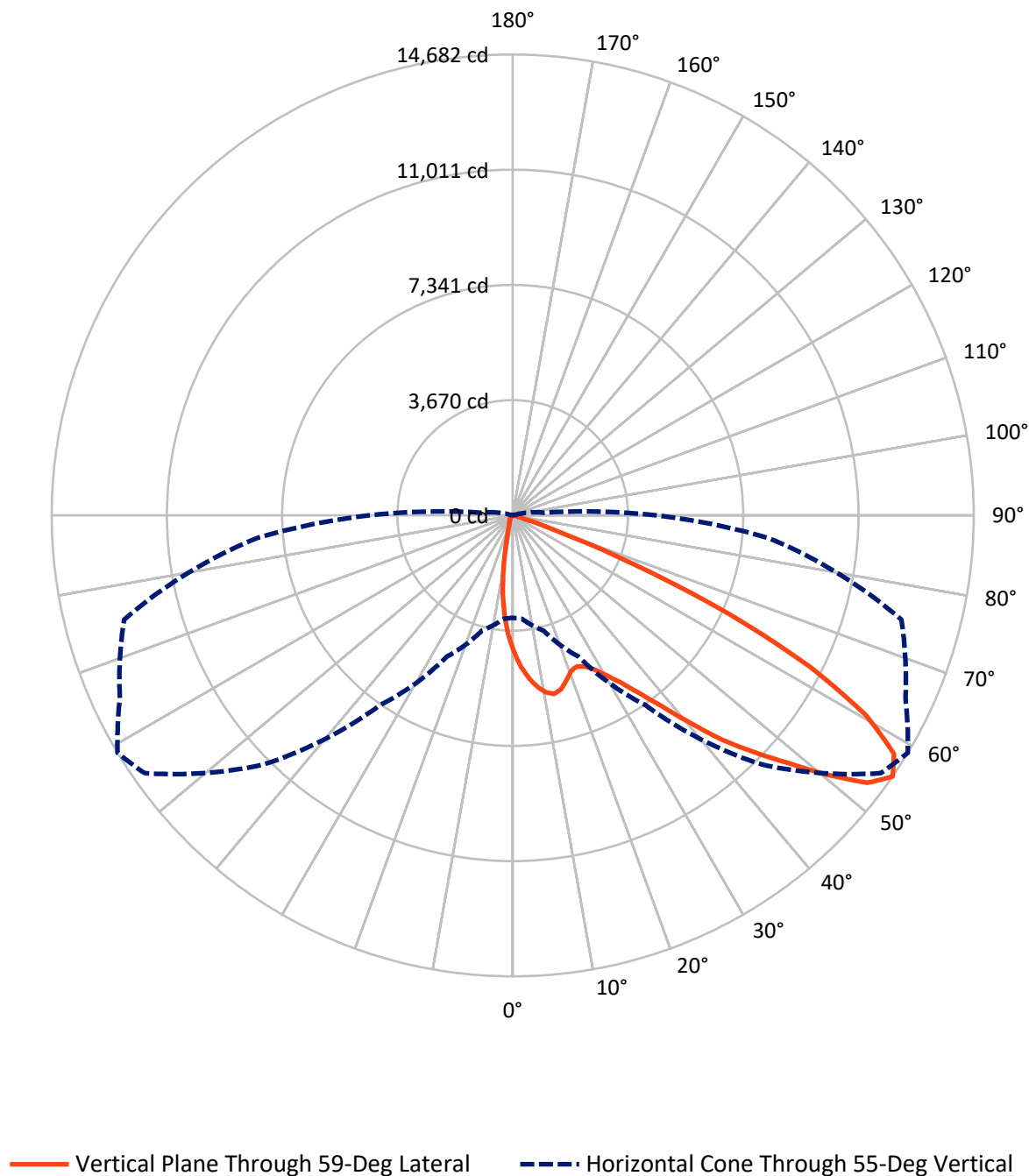


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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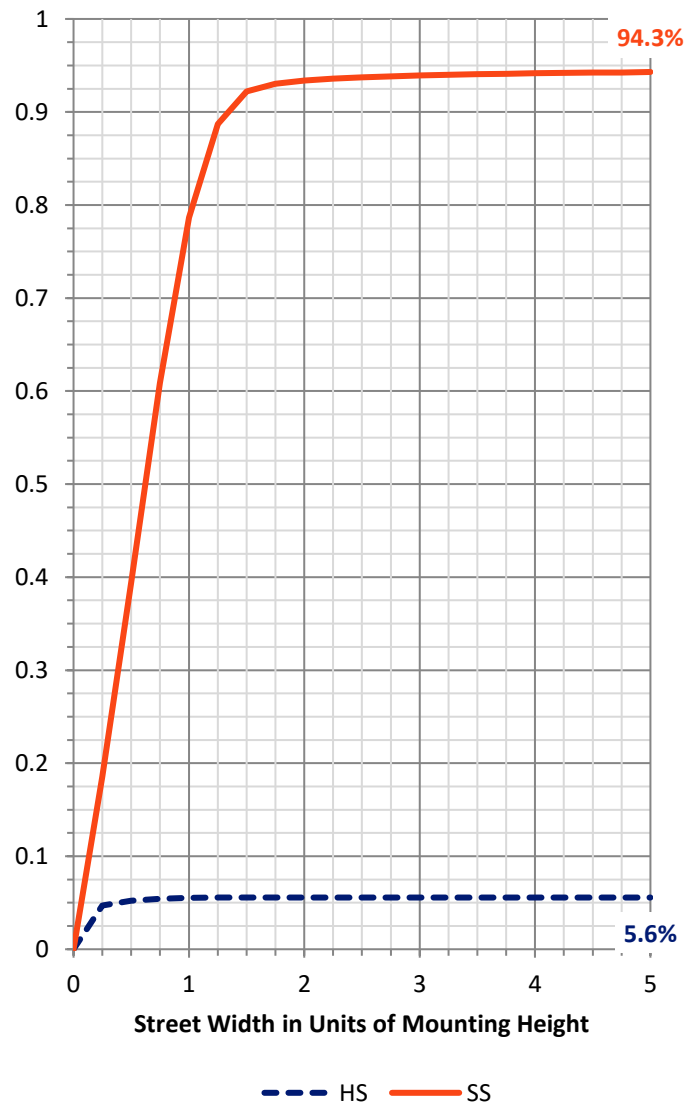
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	857.9	0.0	857.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	14501.7	0.0	14501.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	15359.7	0.0	15359.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	362.2	2.4
10°-20°	867.1	5.6
20°-30°	1475.5	9.6
30°-40°	2537.5	16.5
40°-50°	3917.6	25.5
50°-60°	3938.4	25.6
60°-70°	2019.7	13.1
70°-80°	218.9	1.4
80°-90°	22.9	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°	15359.7	100.0
0°-180°	15359.7	100.0

Coefficient of Utilization



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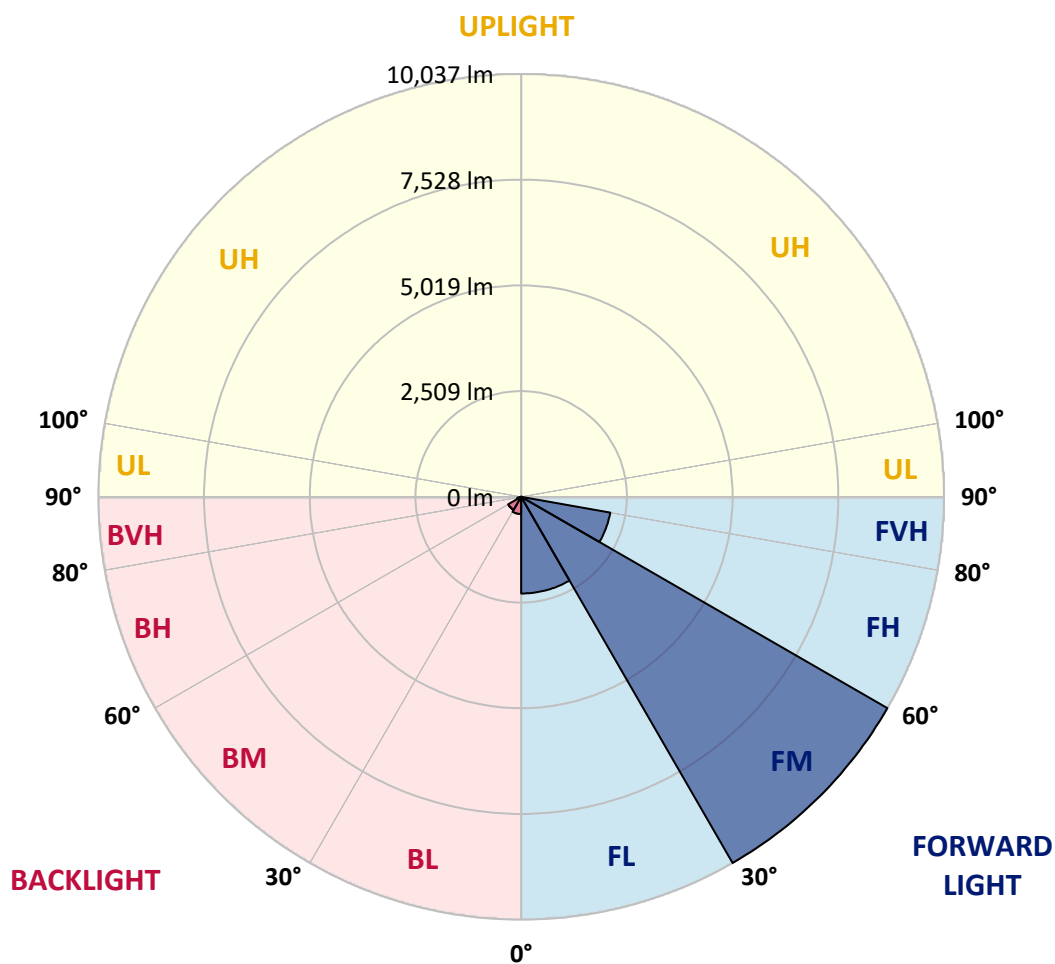
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2295.2	14.9			
FM	(30°-60°)	10037.5	65.3			
FH	(60°-80°)	2146.6	14.0			G2/5000
FVH	(80°-90°)	22.4	0.1			G1/100
BL	(0°-30°)	409.5	2.7	B1/500		
BM	(30°-60°)	356.0	2.3	B1/1000		
BH	(60°-80°)	91.9	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°	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7
2.5°	5115.9	5061.6	5045.3	5034.3	4984.5	4921.9	4836.7	4796.8	4715.3	4583.9	4422.5
5°	5584.6	5574.5	5538.4	5518.3	5464.9	5376.1	5240.1	5174.8	5045.3	4824.1	4535.0
7.5°	5379.7	5442.2	5492.1	5575.5	5680.6	5677.0	5562.8	5494.7	5349.8	5057.9	4660.0
10°	4588.4	4639.1	4720.6	4910.1	5296.4	5637.1	5771.3	5722.4	5606.3	5272.8	4780.5
12.5°	4433.4	4427.9	4442.5	4497.7	4699.9	5185.7	5735.9	5834.7	5811.2	5469.4	4894.7
15°	4515.9	4509.4	4507.7	4526.7	4575.7	4780.5	5470.3	5754.0	5936.3	5651.7	4991.7
17.5°	4747.0	4719.8	4705.2	4689.9	4675.4	4726.1	5151.2	5528.3	5955.2	5811.2	5072.4
20°	5143.2	5097.8	5044.3	4957.3	4875.7	4850.3	5017.0	5296.4	5887.3	5932.6	5125.1
22.5°	5640.7	5582.7	5490.3	5331.7	5165.8	5069.7	5083.3	5222.9	5785.8	6065.0	5149.5
25°	6200.0	6125.7	6002.3	5782.1	5538.4	5367.9	5279.1	5328.0	5739.5	6219.9	5177.6
27.5°	6799.2	6716.7	6555.3	6255.3	5978.8	5748.5	5567.3	5561.0	5818.4	6423.1	5222.9
30°	7392.9	7380.1	7169.9	6852.6	6486.4	6206.4	5945.4	5911.8	6038.6	6704.0	5312.6
32.5°	8185.0	8089.9	7832.5	7506.2	7083.9	6747.6	6438.4	6360.4	6376.8	7031.2	5451.3
35°	9184.0	9079.8	8717.1	8266.7	7794.4	7397.4	7055.6	6949.7	6909.8	7566.9	5685.2
37.5°	9829.4	9827.6	9600.1	9141.4	8634.6	8196.8	7825.2	7701.0	7620.4	8214.1	6047.7
40°	9846.6	9889.2	9919.1	9914.6	9553.8	9150.5	8820.5	8667.3	8479.7	9078.9	6516.3
42.5°	9318.1	9427.9	9691.7	10139.4	10353.3	10192.9	9914.6	9764.1	9484.9	10004.4	7087.4
45°	8603.8	8680.0	9141.4	9966.2	10786.6	11226.2	11014.1	10744.9	10376.9	10969.6	7599.5
47.5°	8283.9	8297.4	8595.8	9501.3	10819.2	12072.8	12201.5	11763.7	11187.2	11747.3	8000.2
50°	7327.6	7352.0	7763.6	8695.4	10436.7	12472.5	13394.4	12979.2	12071.0	12346.6	8146.2
52.5°	5522.9	5557.4	6079.4	7371.1	9385.3	12302.1	14248.3	14147.7	13039.1	12639.3	8154.2
55°	3258.6	3304.0	3802.4	4961.8	7382.0	11217.9	14311.7	14681.5	13803.2	12812.4	8141.6
57.5°	1521.9	1553.6	1839.2	2556.1	4591.1	8865.9	13356.3	14315.3	14224.7	12903.9	8231.4
60°	808.5	817.6	886.5	1106.8	2074.9	5621.7	11491.8	12926.7	13840.3	13031.0	8341.0
62.5°	618.2	620.9	617.4	643.5	872.0	2495.4	8686.3	10627.0	12293.1	12935.7	8219.6
65°	535.7	540.3	514.8	508.5	559.3	890.1	5160.4	7575.1	9659.8	11651.3	7391.9
67.5°	480.4	482.3	451.4	425.1	434.2	481.3	2035.8	4146.9	6394.0	8540.5	5358.0
70°	442.4	440.6	407.0	365.3	353.6	329.1	647.2	1520.2	3055.6	4330.9	2491.7
72.5°	391.5	392.5	376.2	321.8	293.7	230.2	300.0	443.3	911.9	1180.2	583.8
75°	347.1	342.6	322.7	288.2	242.0	151.4	148.7	197.6	281.1	279.1	125.9
77.5°	251.1	246.6	252.9	236.5	185.8	97.9	74.3	95.2	114.1	110.6	35.4
80°	184.0	181.3	163.2	196.6	164.1	67.0	46.2	50.8	58.9	49.8	10.9
82.5°	125.9	125.1	115.2	108.8	93.4	40.8	29.0	31.6	38.0	28.1	5.5
85°	20.0	22.6	83.4	66.2	55.2	18.1	20.0	21.8	25.3	15.4	1.8
87.5°	0.0	0.0	39.0	34.4	10.9	7.2	11.8	12.7	12.7	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°	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7	4323.7
2.5°	4340.0	4249.3	4081.7	3908.5	3748.1	3556.8	3425.4	3326.6	3212.4	3181.6	3248.6
5°	4370.0	4198.7	3837.8	3445.4	3076.4	2667.7	2354.9	2107.5	1883.5	1807.4	1876.3
7.5°	4417.1	4162.3	3574.1	2927.8	2286.0	1647.8	1211.0	923.7	740.6	686.1	715.2
10°	4464.3	4109.8	3268.6	2314.9	1437.7	802.2	522.1	417.0	378.0	369.9	374.3
12.5°	4503.1	4039.1	2896.0	1646.1	768.6	429.6	341.8	324.5	319.0	319.0	320.9
15°	4526.7	3932.1	2454.6	1046.9	442.4	324.5	298.2	292.9	292.9	293.7	295.5
17.5°	4524.0	3796.1	1971.5	633.6	330.8	287.4	271.9	267.3	266.5	268.3	269.3
20°	4490.4	3618.4	1486.6	417.9	288.2	262.0	246.6	238.4	237.5	239.3	241.1
22.5°	4427.0	3399.2	1063.2	321.8	260.1	237.5	218.4	211.2	211.2	213.0	214.8
25°	4349.9	3130.9	727.0	272.8	234.8	211.2	193.1	186.8	188.6	193.1	193.9
27.5°	4253.9	2828.9	494.0	233.9	204.0	184.8	171.3	166.7	171.3	177.6	179.5
30°	4171.4	2514.5	352.6	202.1	173.1	159.5	151.4	151.4	157.8	169.5	172.2
32.5°	4107.9	2209.9	271.9	178.5	150.4	138.6	134.2	138.6	148.7	160.4	163.2
35°	4099.9	1958.8	230.2	159.5	134.2	122.4	120.5	128.7	138.6	147.7	149.5
37.5°	4162.3	1726.8	207.6	144.1	119.6	108.8	107.0	116.9	126.8	137.7	140.5
40°	4281.1	1544.6	191.2	129.6	107.8	96.0	92.5	99.8	113.3	127.9	131.4
42.5°	4435.2	1394.1	173.1	115.2	96.0	79.8	75.3	83.4	97.9	113.3	117.9
45°	4582.0	1264.4	153.2	98.8	80.7	61.6	59.9	70.7	77.9	93.4	97.0
47.5°	4662.7	1150.3	135.9	80.7	62.5	49.8	49.8	52.6	59.9	77.9	81.6
50°	4635.6	1058.7	117.9	59.9	43.4	38.0	38.0	37.1	48.1	62.5	65.2
52.5°	4581.1	1006.2	101.5	46.2	29.9	27.2	24.5	27.2	33.6	39.9	40.8
55°	4572.9	997.1	85.2	37.1	20.9	18.1	13.5	13.5	13.5	12.7	10.9
57.5°	4636.4	1011.6	71.6	29.9	15.4	11.8	7.2	0.0	0.0	0.0	0.0
60°	4701.7	1027.0	61.6	20.9	10.9	6.3	0.9	0.0	0.0	0.0	0.0
62.5°	4592.9	992.5	51.7	12.7	8.2	2.7	0.0	0.0	0.0	0.0	0.0
65°	4034.5	844.8	40.8	9.1	5.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2869.8	565.6	27.2	5.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1309.8	236.5	17.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	280.1	73.4	11.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	57.2	53.4	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.1	84.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.9	60.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.8	9.1	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)