

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: P321440

Luminaire Tested: **GAN-SA6B-830-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321440
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-830-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21923 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

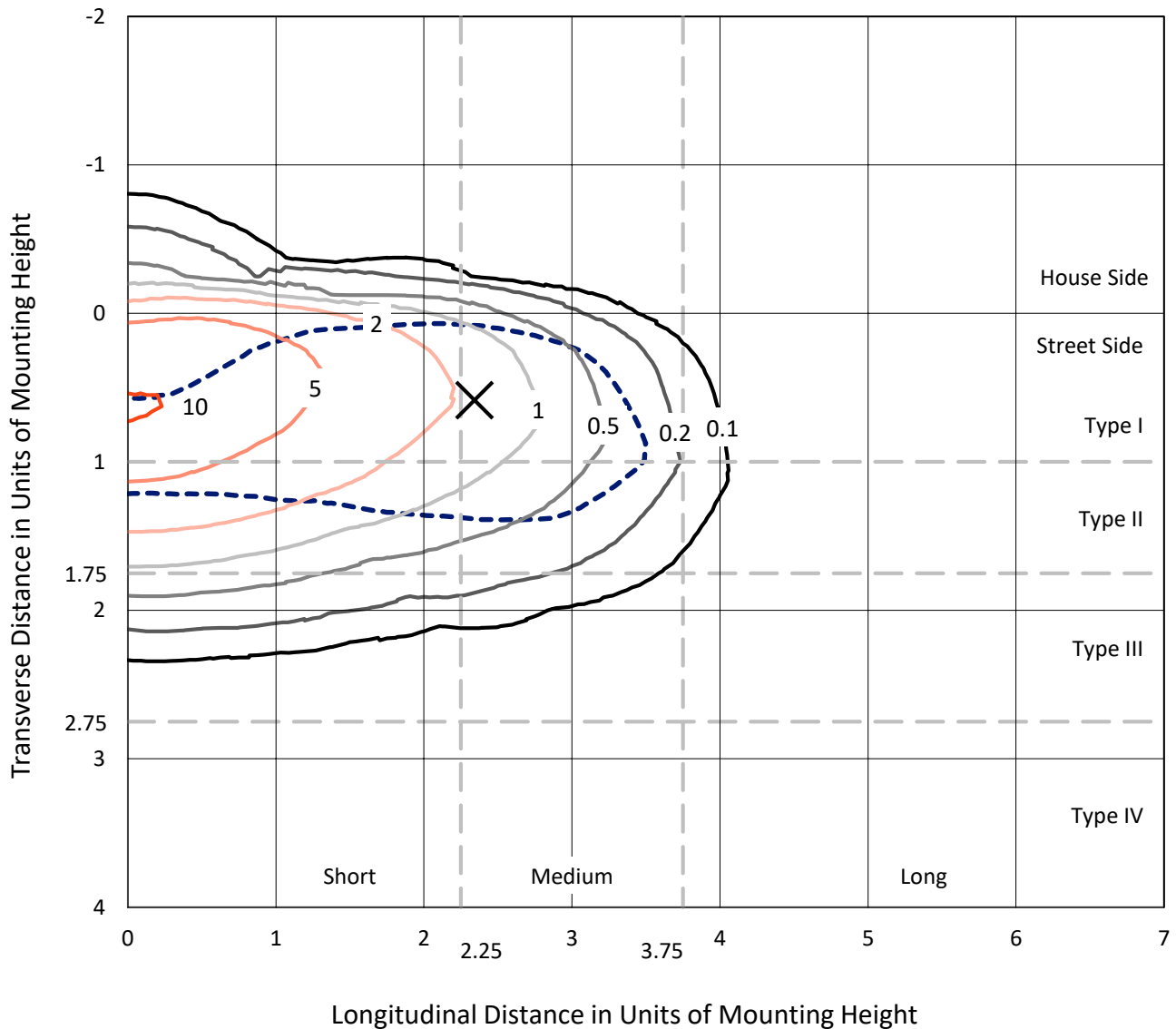
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

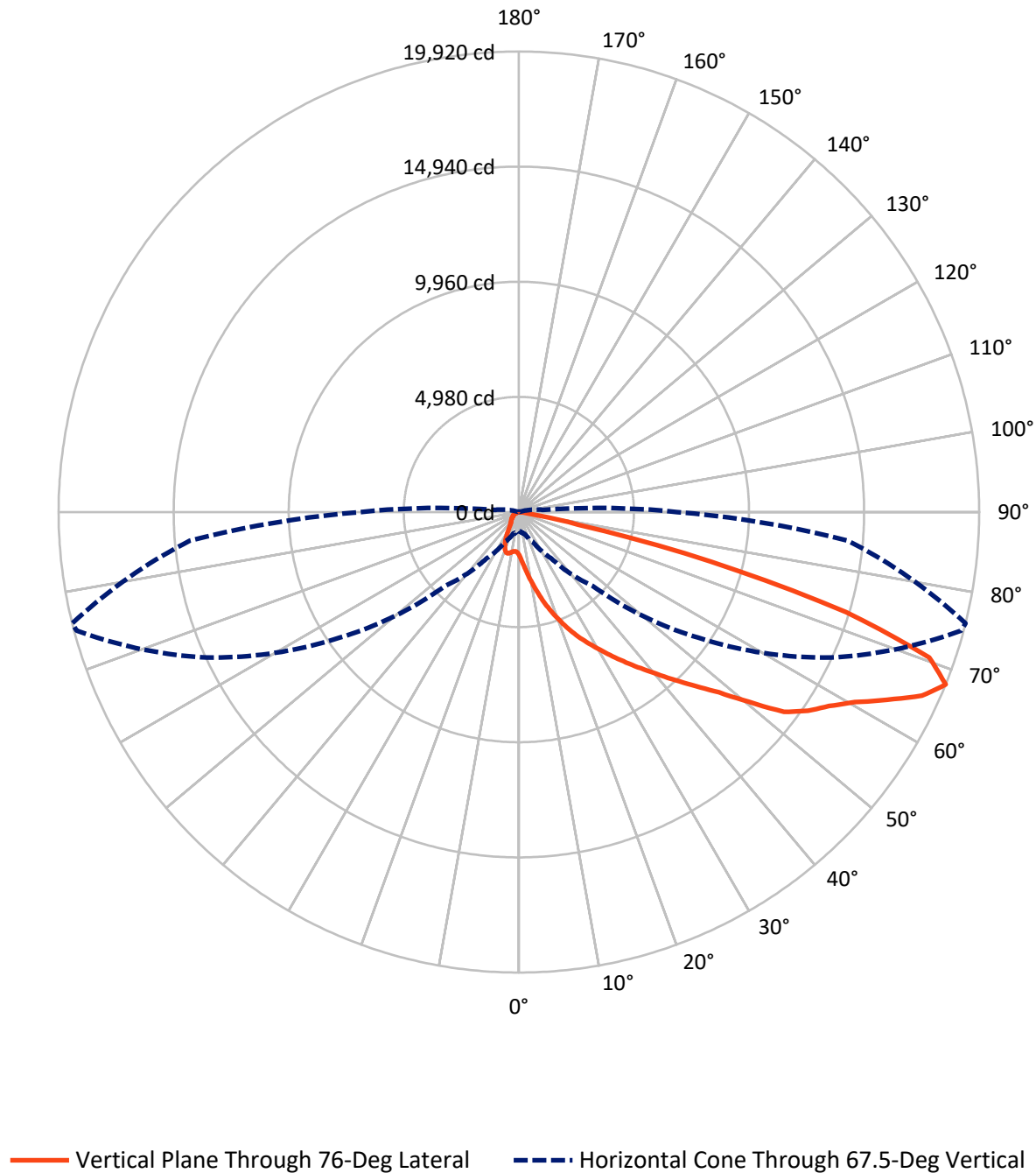
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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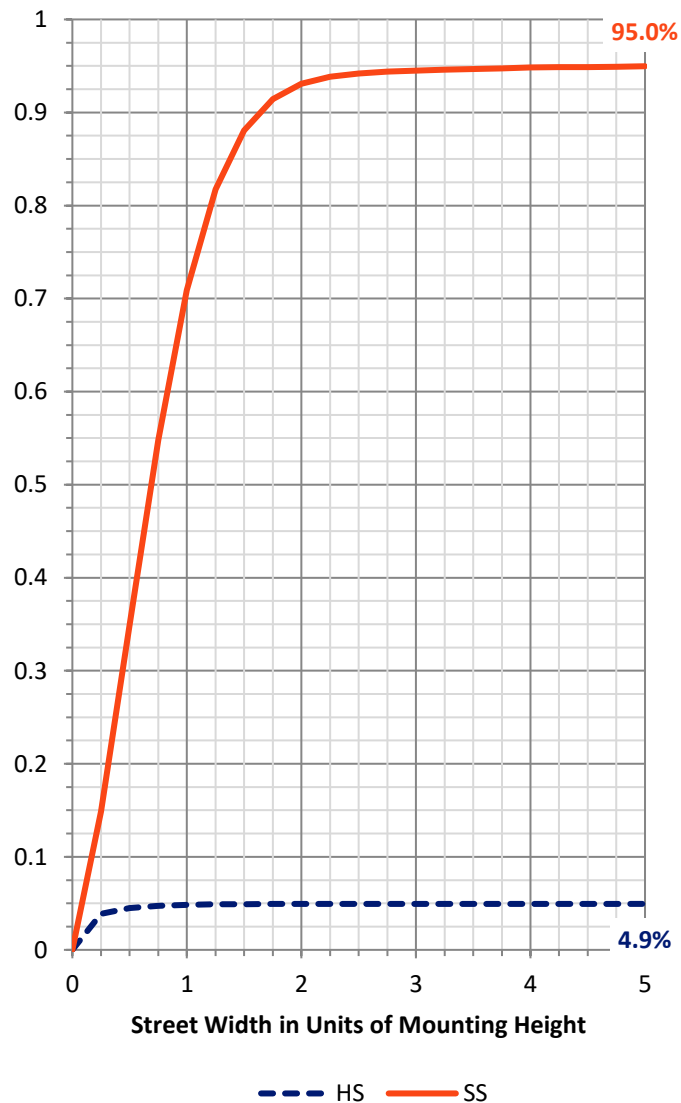
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1088.6	0.0	1088.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	20834.4	0.0	20834.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	21923.0	0.0	21923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	1.1
10°-20°	916.7	4.2
20°-30°	1865.2	8.5
30°-40°	3237.4	14.8
40°-50°	4574.0	20.9
50°-60°	5187.2	23.7
60°-70°	4302.3	19.6
70°-80°	1558.4	7.1
80°-90°	50.5	0.2
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°	21923.0	100.0
0°-180°	21923.0	100.0

Coefficient of Utilization



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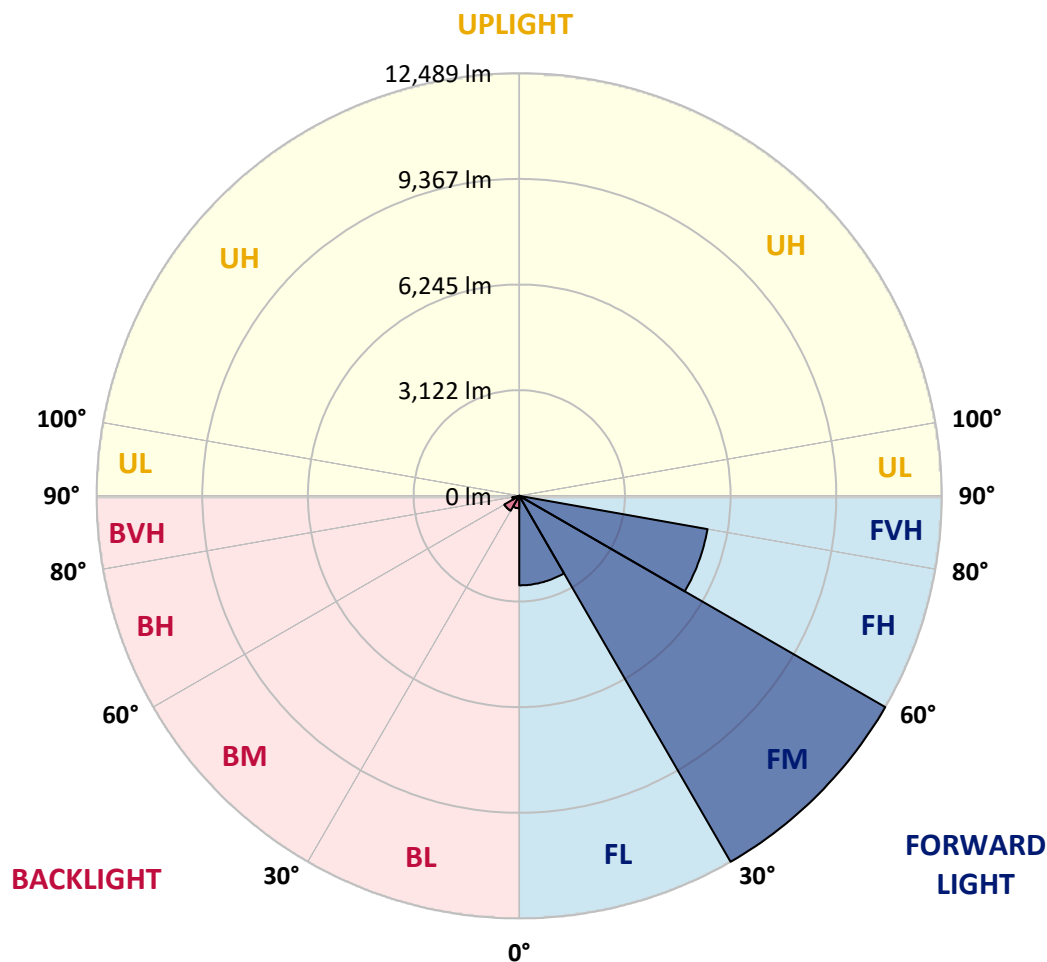
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2646.0	12.1			
FM	(30°-60°)	12489.1	57.0			
FH	(60°-80°)	5650.3	25.8			G3/7500
FVH	(80°-90°)	48.9	0.2			G1/100
BL	(0°-30°)	367.1	1.7	B1/500		
BM	(30°-60°)	509.5	2.3	B1/1000		
BH	(60°-80°)	210.4	1.0	B1/500		G1/500
BVH	(80°-90°)	1.6	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-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7
2.5°	2776.1	2713.7	2728.1	2687.7	2614.7	2464.9	2337.1	2216.1	2074.9	2070.1	1953.8
5°	3743.4	3690.6	3683.9	3602.2	3469.7	3215.1	2967.3	2684.9	2369.8	2346.7	2099.9
7.5°	4621.4	4579.1	4563.8	4466.8	4219.9	3972.0	3649.3	3234.3	2741.5	2699.3	2296.8
10°	5295.7	5275.6	5279.4	5210.2	4998.9	4768.4	4344.8	3815.5	3163.2	3097.9	2533.1
12.5°	5806.8	5811.6	5846.2	5803.9	5685.7	5514.8	5062.3	4435.1	3630.1	3540.7	2803.0
15°	6182.4	6206.4	6269.8	6322.6	6314.0	6166.0	5751.1	5064.2	4125.7	4026.8	3103.7
17.5°	6425.4	6452.3	6544.5	6661.7	6769.3	6734.7	6415.8	5671.3	4627.2	4512.9	3425.5
20°	6638.6	6670.3	6769.3	6923.9	7124.7	7167.9	6958.5	6260.2	5127.6	4988.4	3757.8
22.5°	7100.7	7099.7	7160.2	7250.5	7441.7	7553.1	7420.6	6806.8	5622.3	5477.3	4096.9
25°	7936.4	7904.7	7883.6	7812.5	7854.8	7923.9	7850.0	7317.8	6119.9	5973.0	4440.8
27.5°	8929.7	8948.9	8777.9	8586.7	8438.8	8367.7	8246.7	7791.4	6598.3	6436.9	4777.0
30°	9977.7	9983.4	9781.7	9537.7	9212.1	8942.1	8732.7	8243.8	7090.1	6914.3	5103.6
32.5°	10922.9	10885.4	10685.6	10353.3	9942.1	9638.6	9203.4	8749.1	7610.8	7440.7	5466.7
35°	11672.1	11628.0	11384.9	11082.3	10655.8	10350.4	9826.9	9253.4	8158.3	7992.1	5830.8
37.5°	12219.7	12167.8	11918.1	11606.8	11238.9	11061.2	10550.2	9801.9	8755.8	8577.1	6214.1
40°	12409.9	12364.7	12208.2	11980.5	11684.6	11644.3	11317.7	10433.0	9406.1	9215.9	6648.3
42.5°	12296.5	12252.3	12196.6	12119.8	11996.8	12035.3	12042.0	11152.5	10128.5	9941.2	7127.6
45°	11847.0	11807.6	11865.2	11977.6	12130.4	12320.5	12702.9	11925.7	10935.4	10735.6	7681.9
47.5°	11185.1	11156.3	11315.8	11596.3	12042.9	12567.4	13307.1	12738.4	11841.2	11655.8	8373.5
50°	10243.7	10238.9	10557.9	11069.9	11756.7	12686.5	13931.5	13662.5	13099.6	12904.6	9335.0
52.5°	8777.9	8787.5	9414.8	10234.1	11254.3	12605.8	14333.0	14849.8	14563.5	14360.8	10167.9
55°	7382.1	7439.8	7884.5	9066.1	10483.9	12306.1	14471.3	15404.0	15371.4	15179.3	10630.9
57.5°	6015.2	6119.9	6548.4	7652.1	9359.0	11615.5	14395.4	15644.2	15972.7	15825.7	11241.8
60°	4534.0	4582.0	5075.8	6107.4	7915.3	10355.2	13845.0	15774.8	16795.0	16693.2	12128.4
62.5°	2884.7	3004.7	3442.8	4437.9	6163.2	8605.0	12917.1	15772.9	17823.8	17879.5	13272.5
65°	1519.7	1659.9	1892.4	2750.2	4235.2	6650.2	11521.3	15625.0	19086.0	19163.8	14166.8
67.5°	819.4	859.7	982.7	1427.4	2456.2	4505.2	9470.5	14894.9	19817.0	19919.8	14291.7
70°	599.4	621.5	667.6	789.6	1236.3	2616.7	6910.5	13239.8	18874.7	18836.2	12698.1
72.5°	460.1	494.7	529.3	578.3	710.8	1396.7	4302.5	10367.7	15060.2	14806.6	9491.6
75°	363.1	368.9	417.9	462.0	533.1	795.4	1910.6	6038.3	9191.9	8591.5	4922.1
77.5°	290.1	293.9	322.8	361.2	428.4	522.6	591.7	2375.5	2934.6	2618.6	1068.2
80°	171.9	181.6	240.1	278.6	355.4	329.5	216.1	515.8	458.2	415.0	179.6
82.5°	96.1	103.7	135.4	220.0	247.8	157.5	107.6	139.3	107.6	104.7	50.9
85°	0.0	4.8	87.4	136.4	100.9	34.6	45.1	46.1	31.7	29.8	20.2
87.5°	0.0	0.0	26.9	25.9	3.8	5.8	10.6	15.4	12.5	12.5	10.6
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°	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7	1859.7
2.5°	1896.2	1844.3	1746.4	1650.3	1569.6	1503.3	1443.8	1419.8	1400.5	1397.7	1382.3
5°	1980.7	1876.0	1688.7	1535.0	1432.2	1359.2	1296.8	1258.4	1228.6	1217.1	1206.5
7.5°	2108.5	1950.0	1681.0	1504.3	1381.3	1258.4	1143.1	1018.2	940.4	910.6	893.4
10°	2264.1	2048.0	1709.9	1495.6	1280.5	1021.1	830.0	671.5	607.1	586.0	580.2
12.5°	2445.7	2170.0	1759.8	1441.8	1065.3	725.2	572.5	518.7	504.3	497.6	497.6
15°	2654.1	2303.5	1795.3	1286.2	787.7	548.5	495.7	470.7	455.3	446.7	447.6
17.5°	2867.4	2434.1	1778.1	1060.5	581.2	488.0	448.6	421.7	400.6	391.9	390.0
20°	3082.5	2555.2	1682.0	789.6	491.8	442.8	398.6	368.9	347.7	339.1	337.2
22.5°	3305.4	2658.0	1512.9	579.2	441.9	392.9	349.7	319.9	299.7	292.0	288.2
25°	3522.5	2741.5	1276.6	468.8	394.8	345.8	304.5	276.7	258.4	250.7	249.8
27.5°	3725.2	2794.4	1002.9	414.0	353.5	303.5	266.1	241.1	225.7	220.0	219.0
30°	3907.7	2799.2	741.6	373.7	317.0	267.0	232.5	210.4	196.9	191.2	189.2
32.5°	4092.1	2758.8	539.9	337.2	283.4	235.3	201.7	184.4	174.8	170.0	170.0
35°	4266.0	2665.6	420.7	305.5	250.7	204.6	177.7	165.2	159.5	154.7	154.7
37.5°	4436.0	2532.1	357.3	277.6	220.0	178.7	156.6	148.9	144.1	139.3	139.3
40°	4608.9	2364.0	324.7	251.7	195.0	158.5	139.3	132.6	127.8	123.9	123.0
42.5°	4821.2	2170.0	303.5	227.7	172.9	140.2	123.0	115.3	111.4	107.6	105.7
45°	5067.1	2002.8	286.3	203.6	154.7	124.9	106.6	98.9	93.2	88.4	87.4
47.5°	5421.6	1881.8	263.2	177.7	137.4	108.5	92.2	83.6	74.9	70.1	69.2
50°	5874.0	1781.9	233.4	154.7	120.1	92.2	76.8	66.3	58.6	53.8	53.8
52.5°	6098.8	1651.3	206.5	134.5	100.9	77.8	62.4	50.0	46.1	41.3	41.3
55°	6189.1	1551.4	179.6	114.3	83.6	64.4	49.0	38.4	35.5	32.7	31.7
57.5°	6442.7	1522.5	156.6	97.0	69.2	50.9	37.5	28.8	26.9	23.1	23.1
60°	6850.9	1536.9	135.4	82.6	55.7	39.4	27.9	22.1	20.2	16.3	16.3
62.5°	7291.9	1518.7	114.3	71.1	43.2	28.8	19.2	16.3	16.3	9.6	8.6
65°	7376.4	1352.5	98.0	58.6	33.6	21.1	12.5	10.6	14.4	1.9	0.0
67.5°	6846.1	1049.0	84.5	45.1	25.0	16.3	9.6	4.8	12.5	0.0	0.0
70°	5474.4	666.7	68.2	32.7	19.2	13.4	7.7	1.9	9.6	0.0	0.0
72.5°	3871.2	387.1	53.8	23.1	16.3	10.6	5.8	0.0	5.8	0.0	0.0
75°	1957.7	206.5	33.6	17.3	12.5	7.7	3.8	0.0	1.0	0.0	0.0
77.5°	423.6	96.1	21.1	12.5	8.6	4.8	1.9	0.0	0.0	0.0	0.0
80°	92.2	42.3	13.4	7.7	4.8	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	33.6	22.1	6.7	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	11.5	3.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	3.8	1.0	1.0	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)