

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: P324962

Luminaire Tested: **GAN-SA8B-830-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-830-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 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: 29793 lumens
Efficiency: N/A
Efficacy: 89.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 334
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

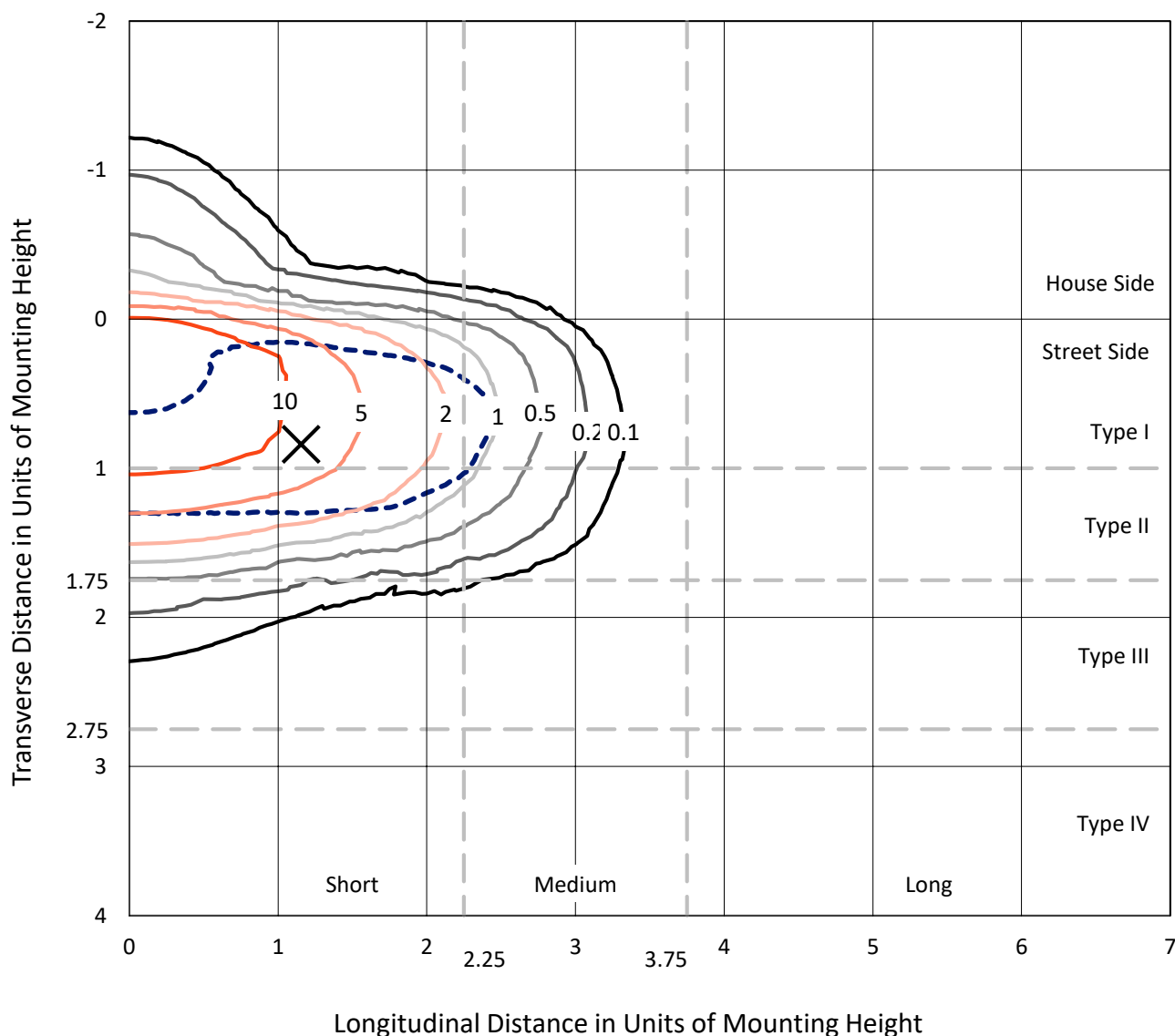


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

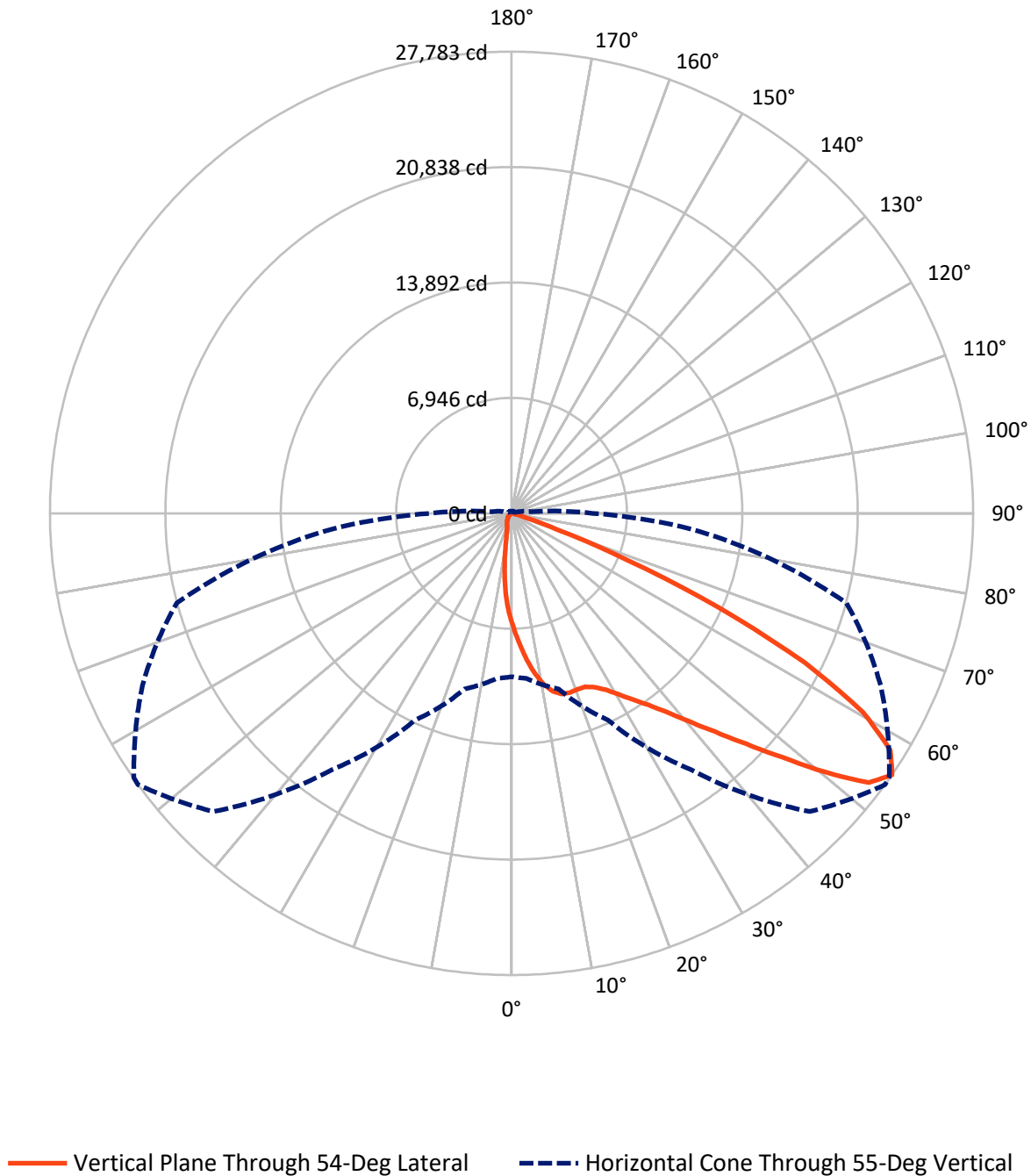


Based on 25 foot mounting height. Maximum calculated value = 16.4 fc

Type II - Short - N/A

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Luminous Intensity Polar Plot



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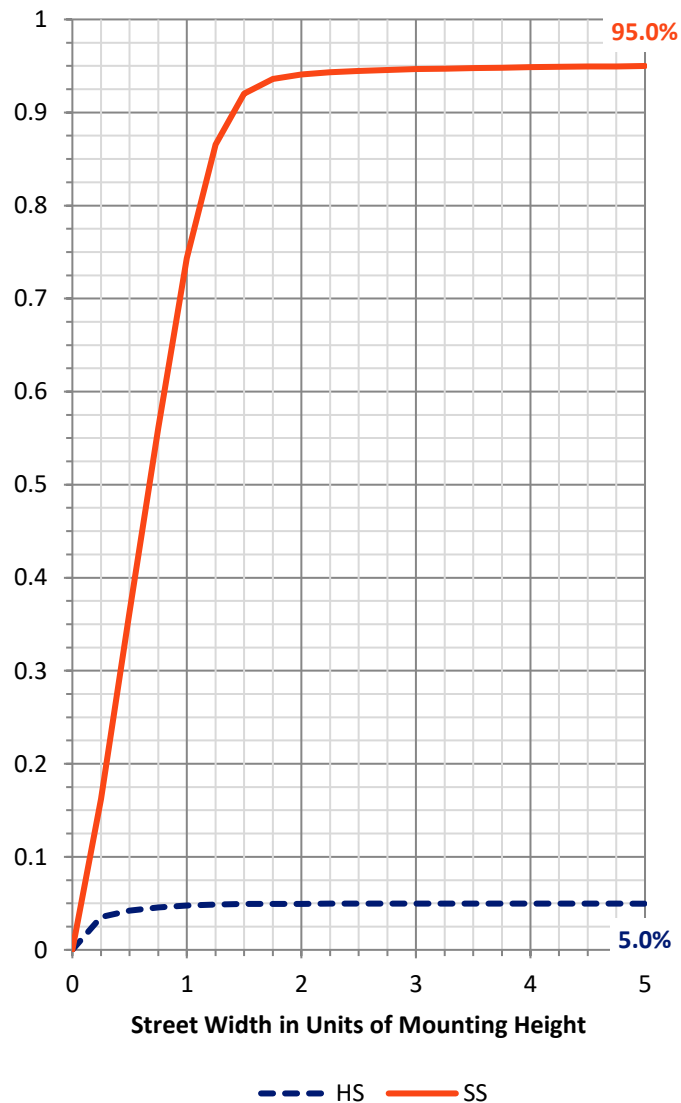
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1486.5	0.0	1486.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	28306.5	0.0	28306.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	29793.0	0.0	29793.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	614.5	2.1
10°-20°	1685.2	5.7
20°-30°	2877.1	9.7
30°-40°	4617.3	15.5
40°-50°	7378.5	24.8
50°-60°	7906.2	26.5
60°-70°	4059.3	13.6
70°-80°	614.9	2.1
80°-90°	40.0	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°	29793.0	100.0
0°-180°	29793.0	100.0

Coefficient of Utilization



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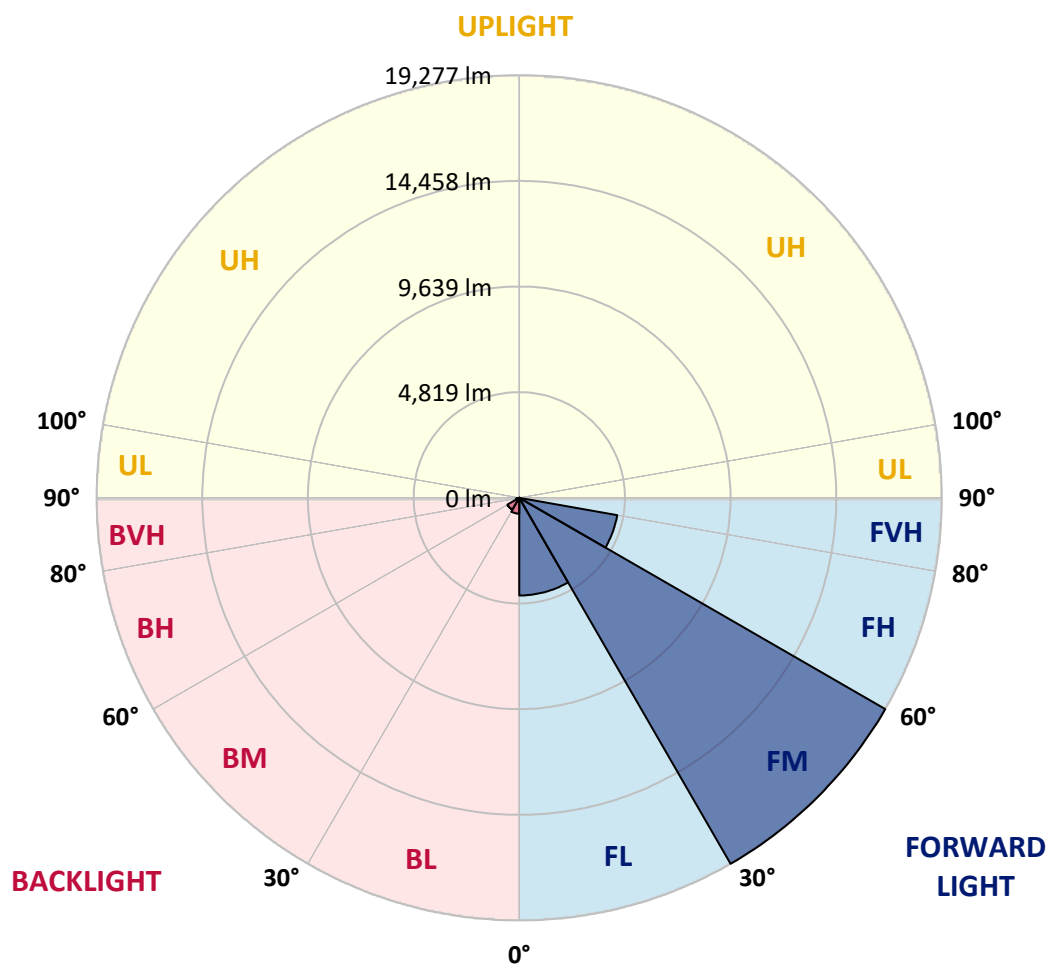
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4453.5	14.9			
FM	(30°-60°)	19277.4	64.7			
FH	(60°-80°)	4537.2	15.2			G2/5000
FVH	(80°-90°)	38.4	0.1			G1/100
BL	(0°-30°)	723.2	2.4	B2/1000		
BM	(30°-60°)	624.6	2.1	B1/1000		
BH	(60°-80°)	137.0	0.5	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: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4
2.5°	8373.4	8248.6	8252.4	8195.8	7988.7	7826.5	7658.0	7618.1	7355.6	7080.3	6815.3
5°	9820.8	9729.5	9707.6	9598.2	9310.0	9005.1	8678.3	8602.4	8089.0	7525.5	6970.9
7.5°	10564.5	10565.8	10547.8	10507.9	10327.7	10031.8	9633.0	9553.2	8854.6	8009.2	7133.0
10°	10348.3	10397.2	10497.6	10630.1	10767.8	10730.5	10430.7	10358.6	9599.5	8521.3	7313.2
12.5°	9844.0	9850.4	9962.3	10179.8	10576.1	10982.6	10987.8	10963.3	10311.0	9056.6	7511.3
15°	9593.1	9617.5	9658.7	9798.9	10174.6	10825.7	11291.4	11326.2	10963.3	9625.2	7722.3
17.5°	9757.8	9792.5	9757.8	9774.5	9991.9	10577.3	11344.2	11432.9	11533.3	10187.5	7921.7
20°	10204.2	10236.4	10174.6	10106.4	10148.9	10505.3	11306.9	11426.5	11979.8	10686.7	8089.0
22.5°	10806.4	10819.2	10725.3	10613.4	10582.5	10749.8	11337.7	11461.3	12337.4	11138.3	8194.5
25°	11469.0	11480.6	11363.5	11234.8	11161.5	11229.7	11591.2	11683.8	12652.7	11569.3	8255.0
27.5°	12190.8	12201.1	12054.4	11896.1	11811.2	11813.8	12009.4	12108.4	12988.5	12060.8	8303.9
30°	12953.7	12948.6	12813.5	12593.5	12485.4	12482.8	12611.5	12711.9	13474.8	12691.3	8370.8
32.5°	13810.6	13800.3	13608.6	13335.9	13213.6	13231.6	13346.2	13404.1	14078.2	13362.9	8490.4
35°	14939.0	14909.4	14619.9	14281.5	14056.4	14049.9	14146.4	14192.8	14847.7	14176.0	8689.9
37.5°	16403.2	16376.2	15983.7	15492.2	15175.7	15057.4	15171.9	15231.1	15945.1	15219.5	9010.2
40°	17846.8	17819.8	17586.9	17136.6	16648.9	16364.6	16454.6	16517.7	17315.4	16485.5	9414.2
42.5°	18842.6	18865.8	18946.8	18984.1	18527.4	17930.4	17971.6	18037.2	18755.1	17839.1	9876.1
45°	19105.1	19155.3	19613.3	20512.7	20683.8	20218.0	19787.0	19823.0	20218.0	19192.6	10338.0
47.5°	18316.4	18409.0	19292.9	20965.6	22414.3	22743.7	21927.9	21880.3	21621.7	20287.5	10666.1
50°	16524.1	16609.0	17754.1	20228.3	22939.2	25154.8	24493.5	24353.2	22853.0	20942.4	10781.9
52.5°	13930.3	14033.2	14963.4	17907.2	21949.8	26230.4	26922.6	26805.5	23756.2	20993.9	10801.2
55°	9837.5	9962.3	10946.6	13724.4	18814.3	25374.8	27783.4	27748.6	24506.3	20857.5	10842.4
57.5°	5528.6	5618.7	6680.2	8797.9	13779.8	22101.6	26884.0	27114.3	24959.2	20620.7	10904.1
60°	2454.9	2479.3	3028.7	4379.7	8067.1	16890.8	24309.5	24698.0	24570.7	20304.2	11008.4
62.5°	1361.2	1340.7	1340.7	1820.6	3506.1	10456.4	19823.0	20465.1	22912.2	19929.8	11013.5
65°	1066.6	1047.3	992.0	999.7	1335.5	4640.9	13727.0	14868.2	19762.6	18832.3	10643.0
67.5°	904.5	887.8	832.4	810.6	829.9	1531.1	7542.2	8727.2	14995.6	15979.9	9218.7
70°	764.3	752.7	724.4	697.4	648.5	756.5	2885.9	3691.3	9240.5	10630.1	6292.9
72.5°	615.0	609.9	620.2	597.0	537.8	504.4	986.8	1195.3	4150.7	4743.8	2592.5
75°	530.1	527.5	532.7	509.5	442.6	351.2	501.8	548.1	1170.8	1160.5	524.9
77.5°	344.8	348.7	441.3	431.0	380.8	234.2	259.9	280.5	355.1	266.3	159.5
80°	220.0	217.4	223.9	357.7	342.2	178.8	129.9	136.4	171.1	131.2	77.2
82.5°	133.8	131.2	146.7	167.3	172.4	124.8	79.8	81.1	106.8	84.9	41.2
85°	11.6	15.4	88.8	82.3	59.2	38.6	38.6	41.2	56.6	50.2	23.2
87.5°	0.0	0.0	15.4	23.2	12.9	14.2	14.2	15.4	21.9	21.9	11.6
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°	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4	6672.4
2.5°	6677.6	6543.8	6273.6	6013.7	5793.7	5581.4	5339.5	5100.2	4988.2	4943.2	4896.9
5°	6689.2	6413.8	5856.7	5295.7	4714.2	4190.5	3744.1	3286.0	3057.0	2956.7	2910.3
7.5°	6704.6	6285.2	5384.5	4442.7	3506.1	2795.8	2175.7	1776.8	1604.4	1577.4	1510.5
10°	6707.2	6129.5	4836.4	3500.9	2350.7	1685.5	1296.9	1091.1	1015.1	1002.3	980.4
12.5°	6712.3	5945.5	4227.8	2592.5	1567.1	1127.1	937.9	869.8	849.2	847.9	847.9
15°	6727.8	5752.5	3596.1	1868.2	1125.8	892.9	823.4	796.4	788.7	792.6	791.3
17.5°	6727.8	5524.8	2976.0	1392.1	909.6	802.9	764.3	746.2	743.7	747.5	748.8
20°	6678.9	5248.1	2407.3	1083.3	806.7	745.0	710.2	693.5	687.1	689.6	690.9
22.5°	6561.8	4908.5	1944.1	896.8	738.5	692.2	654.9	629.2	618.9	620.2	620.2
25°	6379.1	4505.8	1520.8	775.8	683.2	635.6	591.8	562.3	555.8	554.5	557.1
27.5°	6144.9	4060.6	1210.7	683.2	617.6	572.5	528.8	504.4	499.2	500.5	501.8
30°	5914.6	3598.7	954.7	604.7	544.2	501.8	468.3	456.8	456.8	460.6	461.9
32.5°	5703.6	3154.8	755.2	536.5	478.6	440.0	420.7	419.4	425.9	428.4	429.7
35°	5522.2	2744.4	625.3	483.8	427.2	393.7	387.3	392.4	400.1	405.3	406.6
37.5°	5393.5	2377.7	546.8	440.0	387.3	360.3	359.0	369.3	379.6	391.1	393.7
40°	5339.5	2067.6	492.8	401.4	355.1	334.5	330.7	344.8	364.1	380.8	383.4
42.5°	5294.5	1814.1	446.5	364.1	329.4	299.8	298.5	316.5	339.7	356.4	360.3
45°	5255.9	1610.9	404.0	324.2	295.9	257.3	261.2	284.3	302.4	320.4	324.2
47.5°	5176.1	1443.6	357.7	281.8	244.5	220.0	227.7	248.3	262.5	289.5	293.4
50°	5033.3	1307.2	310.1	230.3	199.4	190.4	202.0	216.2	234.2	257.3	259.9
52.5°	4936.8	1204.3	268.9	193.0	164.7	167.3	178.8	184.0	194.3	203.3	200.7
55°	4881.5	1147.7	235.5	167.3	140.2	148.0	150.5	144.1	139.0	129.9	126.1
57.5°	4875.0	1096.2	209.7	145.4	123.5	127.4	118.4	96.5	78.5	68.2	65.6
60°	4864.7	1033.2	189.1	122.2	109.4	104.2	84.9	52.8	37.3	34.7	34.7
62.5°	4752.8	935.4	173.7	102.9	92.6	78.5	48.9	24.4	20.6	21.9	21.9
65°	4396.4	799.0	158.3	83.6	73.3	56.6	24.4	14.2	7.7	9.0	9.0
67.5°	3737.6	636.9	141.5	64.3	55.3	36.0	14.2	6.4	0.0	0.0	0.0
70°	2502.5	395.0	119.7	45.0	36.0	21.9	10.3	1.3	0.0	0.0	0.0
72.5°	959.8	213.6	96.5	27.0	23.2	15.4	6.4	0.0	0.0	0.0	0.0
75°	216.2	140.2	66.9	19.3	16.7	10.3	2.6	0.0	0.0	0.0	0.0
77.5°	82.3	101.6	38.6	12.9	11.6	6.4	0.0	0.0	0.0	0.0	0.0
80°	39.9	60.5	18.0	7.7	6.4	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	20.6	23.2	7.7	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.6	11.6	3.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	3.9	1.3	1.3	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)