

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: P324011

Luminaire Tested: **GAN-SA7C-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324011
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7C-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32266 lumens
Efficiency: N/A
Efficacy: 82.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

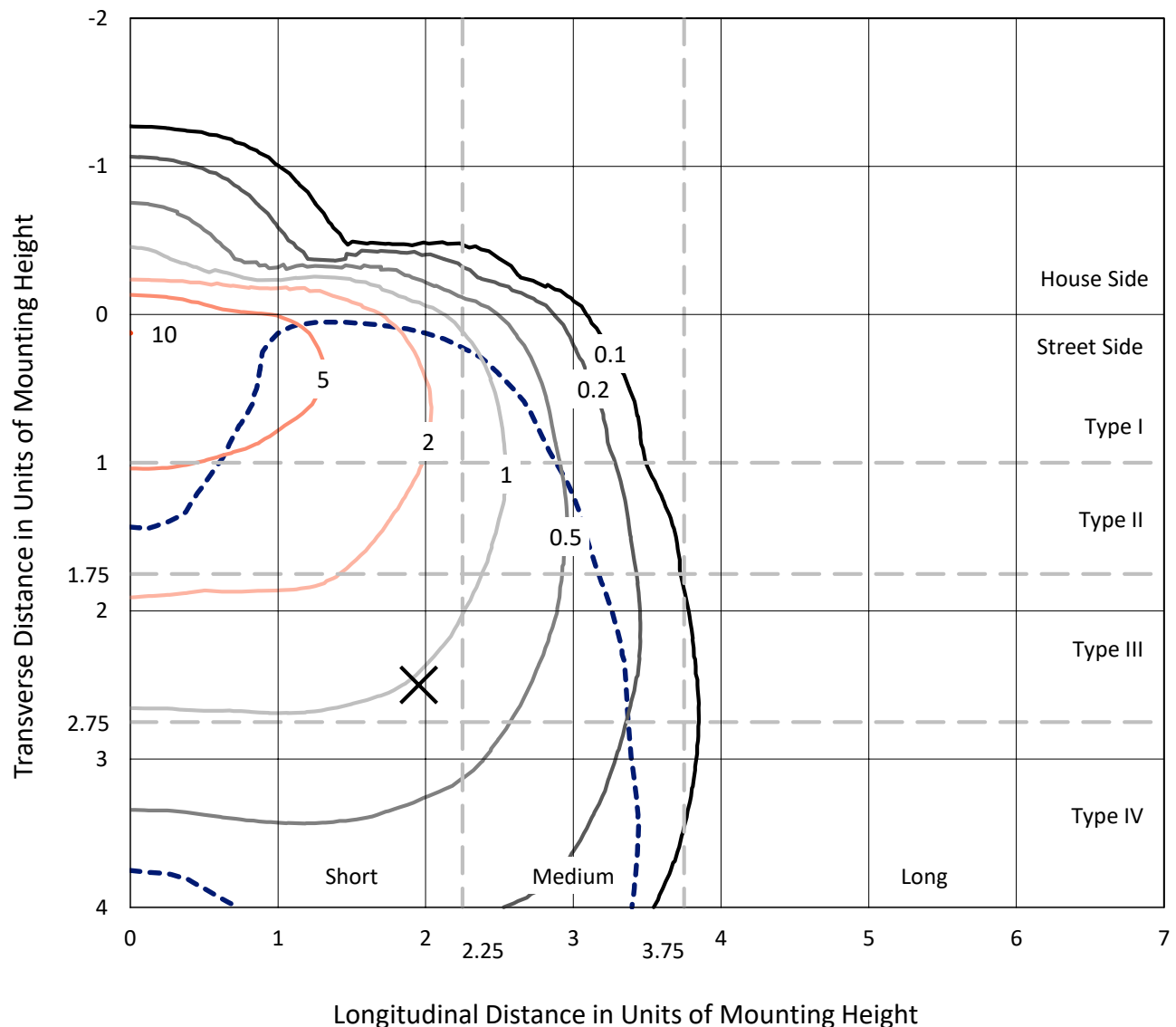
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

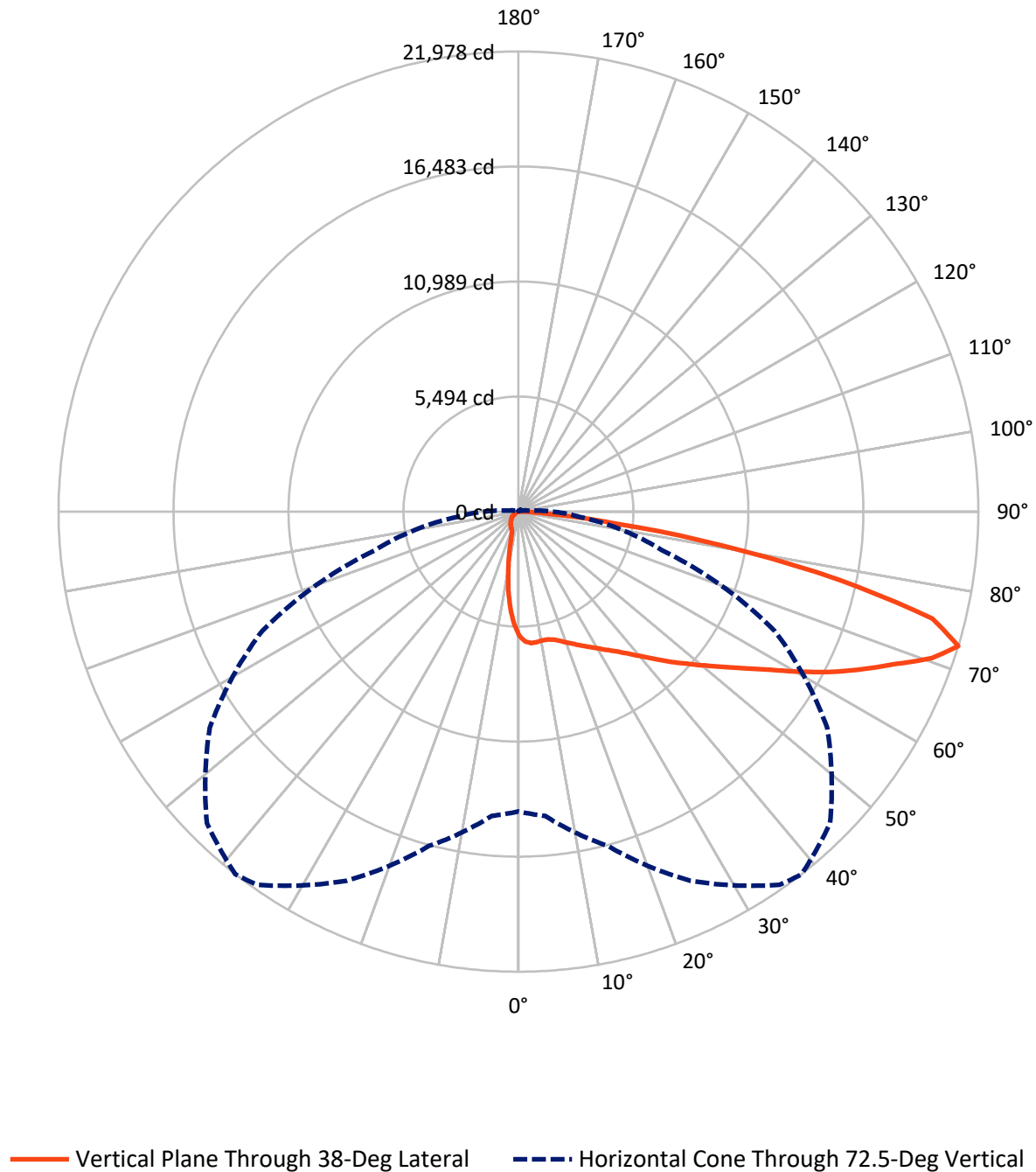
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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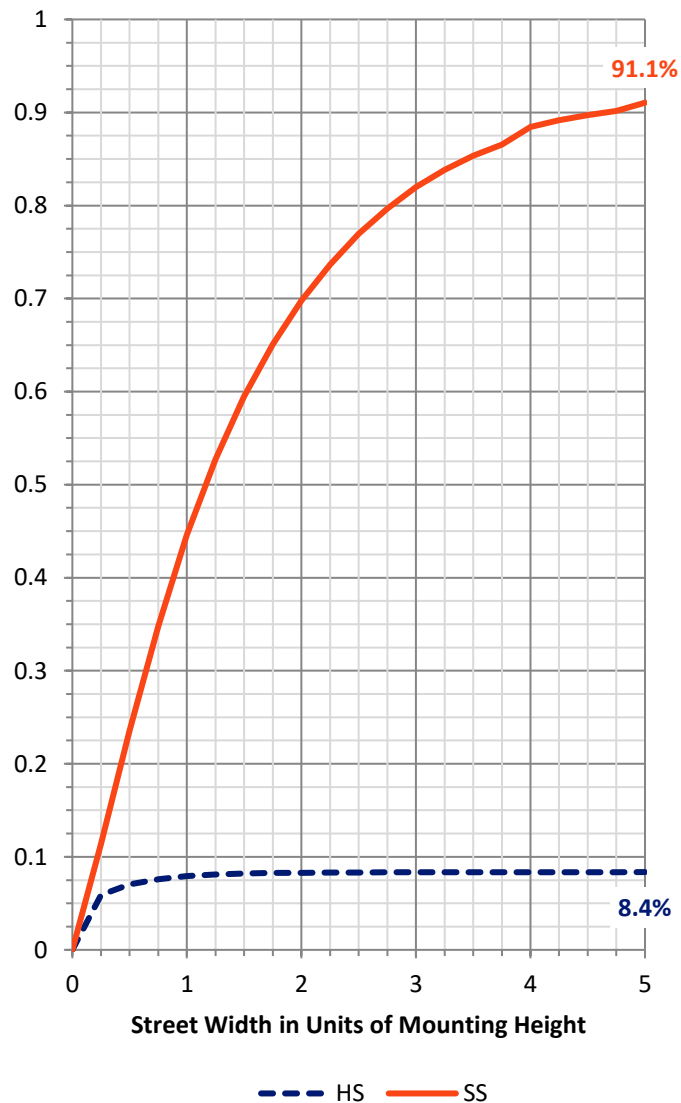
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2715.3	0.0	2715.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	29550.7	0.0	29550.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	32266.0	0.0	32266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	505.7	1.6
10°-20°	1236.4	3.8
20°-30°	1966.5	6.1
30°-40°	2956.5	9.2
40°-50°	4510.3	14.0
50°-60°	6374.6	19.8
60°-70°	7995.9	24.8
70°-80°	5978.7	18.5
80°-90°	741.3	2.3
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°	32266.0	100.0
0°-180°	32266.0	100.0

Coefficient of Utilization



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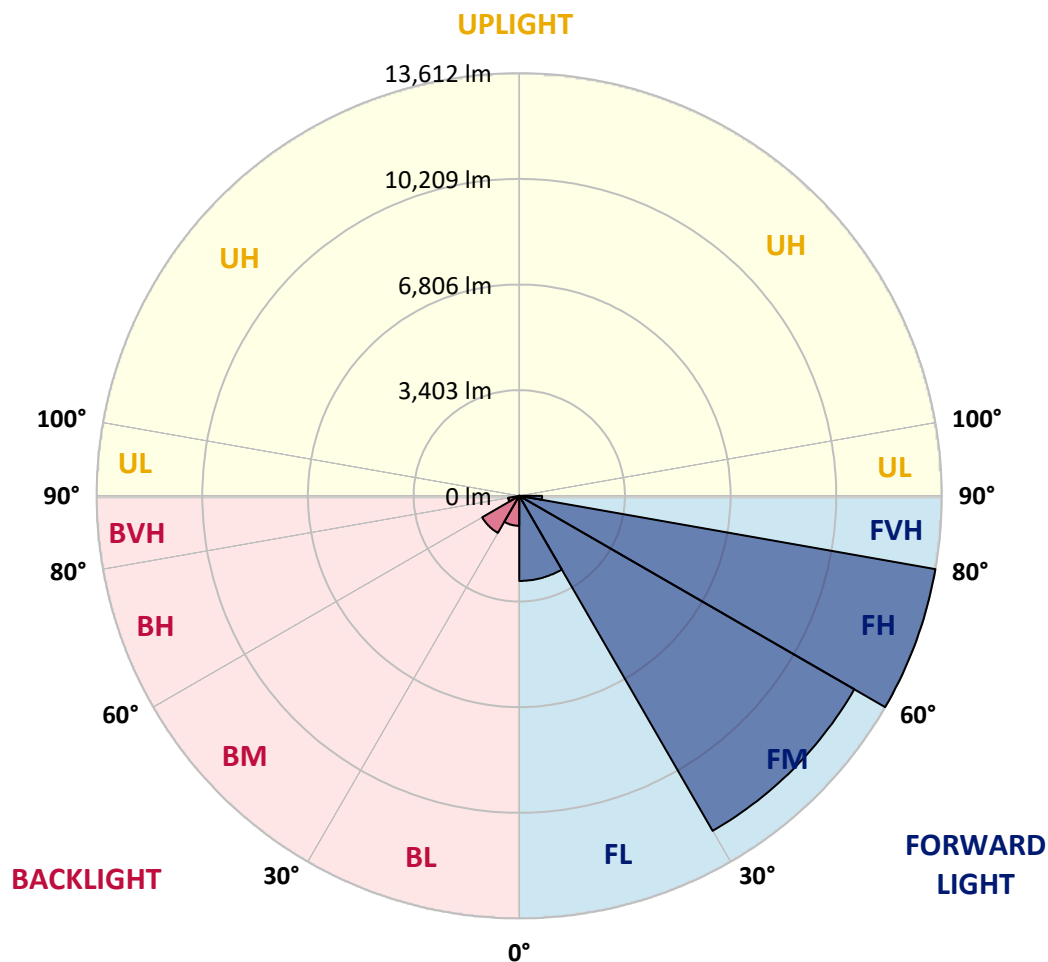
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2741.8	8.5			
FM	(30°-60°)	12462.6	38.6			
FH	(60°-80°)	13611.9	42.2			G5
FVH	(80°-90°)	734.4	2.3			G4/750
BL	(0°-30°)	966.8	3.0	B2/1000		
BM	(30°-60°)	1378.9	4.3	B2/2500		
BH	(60°-80°)	362.7	1.1	B1/500		G1/500
BVH	(80°-90°)	6.9	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6
2.5°	6298.1	6299.4	6284.7	6260.6	6229.8	6213.7	6186.9	6144.0	6098.4	6016.7	5928.3
5°	6426.7	6426.7	6408.0	6375.8	6326.2	6311.5	6260.6	6192.2	6098.4	5965.8	5817.0
7.5°	6413.3	6416.0	6390.6	6357.1	6307.5	6294.1	6232.4	6156.1	6039.5	5878.7	5688.4
10°	6343.7	6350.4	6330.3	6314.2	6268.6	6253.9	6196.3	6119.9	6003.3	5831.8	5613.3
12.5°	6272.6	6279.3	6286.0	6300.8	6272.6	6267.3	6221.7	6157.4	6046.2	5868.0	5621.4
15°	6227.1	6240.5	6288.7	6346.3	6353.0	6347.7	6318.2	6257.9	6145.3	5960.4	5679.0
17.5°	6227.1	6248.5	6349.0	6458.9	6497.8	6501.8	6476.3	6391.9	6257.9	6059.6	5732.6
20°	6279.3	6308.8	6465.6	6621.0	6685.4	6685.4	6635.8	6517.9	6361.1	6149.4	5768.8
22.5°	6413.3	6452.2	6649.2	6828.7	6897.1	6882.3	6815.3	6643.8	6468.3	6251.2	5814.3
25°	6677.3	6706.8	6911.8	7092.7	7134.3	7100.8	7016.3	6796.6	6605.0	6389.2	5897.4
27.5°	7017.7	7021.7	7233.4	7386.2	7360.7	7338.0	7232.1	6988.2	6801.9	6586.2	6040.8
30°	7391.6	7391.6	7577.8	7694.4	7616.7	7597.9	7492.1	7220.0	7053.9	6854.2	6244.5
32.5°	7753.4	7769.4	7920.9	7994.6	7907.5	7888.7	7785.5	7513.5	7388.9	7262.9	6562.1
35°	8103.1	8115.2	8258.5	8298.7	8215.7	8221.0	8147.3	7916.8	7869.9	7853.9	7040.5
37.5°	8442.1	8444.8	8590.9	8616.3	8574.8	8620.4	8627.1	8423.4	8510.5	8640.5	7714.5
40°	8751.7	8754.4	8899.1	8964.7	9035.8	9094.7	9147.0	9038.4	9326.5	9628.0	8517.2
42.5°	8999.6	9027.7	9211.3	9335.9	9523.5	9636.1	9778.1	9772.8	10298.1	10751.0	9487.3
45°	9218.0	9266.2	9522.2	9740.6	10062.2	10241.8	10464.2	10638.4	11391.5	12001.2	10469.6
47.5°	9506.1	9551.7	9843.8	10201.6	10630.4	10866.2	11234.7	11611.3	12593.5	13228.7	11429.0
50°	9912.1	9892.0	10180.1	10693.4	11244.1	11553.7	12078.9	12643.1	13786.1	14298.0	11993.2
52.5°	10345.0	10336.9	10550.0	11228.0	11967.7	12329.5	13023.7	13709.8	14926.5	15035.0	12251.8
55°	10881.0	10823.3	11002.9	11837.7	12826.7	13215.3	14032.7	14765.7	15835.0	15450.4	12381.8
57.5°	11442.4	11347.3	11518.8	12517.1	13795.5	14255.1	15150.3	15794.8	16439.4	15734.5	12380.4
60°	12022.7	11910.1	12113.8	13366.7	14998.9	15530.8	16361.7	16490.3	17003.5	15877.9	12289.3
62.5°	12507.8	12440.8	12743.6	14275.2	16342.9	16865.5	17276.9	17122.8	17479.2	15989.1	12076.3
65°	13021.0	13025.0	13514.1	15335.2	17771.4	18123.8	18158.6	17942.9	17877.2	15966.3	11355.3
67.5°	13715.1	13779.4	14595.5	16774.4	19161.0	19433.0	19430.3	18831.3	18168.0	15060.5	9756.7
70°	14449.4	14600.9	15841.7	18421.3	20677.9	20953.9	20811.9	19396.8	17106.7	12178.1	6905.1
72.5°	14326.2	14588.8	16534.5	19459.8	21767.3	21977.7	21054.4	18007.2	13520.8	7078.0	2940.0
75°	11052.5	11356.7	15161.0	18430.6	20624.3	20435.3	18090.3	14012.6	7388.9	1975.2	662.0
77.5°	5838.5	6000.6	10015.3	14040.7	16081.6	15686.3	12743.6	7773.5	2252.6	489.1	297.5
80°	3057.9	3095.4	4364.4	7966.4	9925.5	9928.2	7552.4	3414.4	928.6	250.6	199.7
82.5°	1637.5	1669.7	2306.2	3681.0	5200.6	4714.2	2891.8	1878.7	540.0	142.0	191.6
85°	394.0	400.7	1307.9	1681.7	2044.9	1460.6	859.0	1577.2	146.1	83.1	155.4
87.5°	151.4	154.1	485.1	727.6	521.3	337.7	402.0	588.3	18.8	32.2	24.1
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°	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6	5933.6
2.5°	5874.7	5839.8	5754.0	5645.5	5549.0	5479.3	5374.8	5306.5	5260.9	5259.6	5242.2
5°	5725.9	5654.9	5470.0	5250.2	5050.5	4871.0	4659.3	4491.7	4367.1	4347.0	4304.1
7.5°	5566.4	5449.9	5165.8	4822.7	4487.7	4147.4	3752.1	3506.8	3296.5	3195.9	3185.2
10°	5468.6	5305.1	4901.8	4406.0	3880.7	3327.3	2810.0	2452.2	2193.6	2119.9	2065.0
12.5°	5448.5	5232.8	4698.1	4014.7	3264.3	2532.6	1960.5	1579.9	1373.5	1307.9	1290.4
15°	5468.6	5199.3	4526.6	3627.4	2639.8	1797.0	1315.9	1094.8	1017.1	998.3	997.0
17.5°	5480.7	5159.1	4332.3	3197.3	2034.2	1283.7	1007.7	943.4	931.3	930.0	932.7
20°	5479.3	5097.4	4100.5	2717.6	1512.9	1009.0	911.2	897.8	895.1	896.5	895.1
22.5°	5470.0	5025.1	3845.9	2223.1	1143.0	901.8	869.7	861.6	860.3	860.3	860.3
25°	5487.4	4967.5	3565.8	1750.1	942.0	852.3	832.2	825.5	824.1	824.1	821.4
27.5°	5550.4	4935.3	3258.9	1346.7	850.9	808.0	792.0	790.6	786.6	785.3	787.9
30°	5652.2	4935.3	2922.6	1047.9	796.0	762.5	750.4	747.7	746.4	745.1	746.4
32.5°	5831.8	4972.8	2555.4	871.0	743.7	711.6	703.5	707.5	703.5	703.5	703.5
35°	6156.1	5085.4	2170.8	759.8	688.8	662.0	653.9	659.3	656.6	656.6	655.3
37.5°	6629.1	5294.4	1783.6	692.8	640.5	612.4	601.7	609.7	607.0	607.0	605.7
40°	7205.3	5598.6	1415.1	641.9	593.6	564.1	554.8	558.8	552.1	552.1	554.8
42.5°	7916.8	5984.5	1093.5	592.3	546.7	518.6	513.2	509.2	497.1	490.4	491.8
45°	8707.5	6386.5	852.3	544.0	502.5	479.7	471.7	461.0	440.9	427.5	428.8
47.5°	9413.6	6696.1	692.8	497.1	462.3	444.9	432.8	412.7	383.2	367.2	368.5
50°	9784.8	6743.0	589.6	450.2	424.8	407.4	389.9	359.1	324.3	306.9	305.5
52.5°	9880.0	6523.2	513.2	407.4	387.3	367.2	344.4	302.8	264.0	245.2	242.5
55°	9914.8	6188.2	444.9	367.2	347.1	324.3	294.8	247.9	211.7	193.0	191.6
57.5°	9799.6	5688.4	391.3	331.0	306.9	278.7	242.5	198.3	163.5	148.7	148.7
60°	9543.6	5011.7	349.7	292.1	265.3	233.2	195.6	154.1	121.9	109.9	109.9
62.5°	9033.1	4135.3	310.9	251.9	226.5	193.0	158.1	116.6	85.8	79.1	80.4
65°	8069.6	3137.0	272.0	215.7	193.0	159.5	123.3	83.1	57.6	57.6	60.3
67.5°	6580.8	2178.9	231.8	183.6	166.2	130.0	93.8	57.6	40.2	45.6	50.9
70°	4356.4	1222.1	198.3	151.4	142.0	103.2	69.7	38.9	32.2	42.9	52.3
72.5°	1644.2	475.7	166.2	121.9	123.3	79.1	49.6	29.5	29.5	46.9	61.6
75°	458.3	233.2	119.3	89.8	96.5	57.6	36.2	25.5	28.1	53.6	72.4
77.5°	269.3	171.5	77.7	52.3	65.7	40.2	24.1	20.1	24.1	45.6	69.7
80°	217.1	91.1	45.6	26.8	36.2	22.8	16.1	12.1	6.7	17.4	36.2
82.5°	217.1	54.9	21.4	18.8	18.8	12.1	8.0	5.4	1.3	0.0	9.4
85°	146.1	22.8	13.4	12.1	9.4	4.0	2.7	1.3	0.0	0.0	0.0
87.5°	24.1	9.4	5.4	2.7	1.3	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)