

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: P318894

Luminaire Tested: **GAN-SA0C-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318894
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55967 lumens
Efficiency: N/A
Efficacy: 100.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

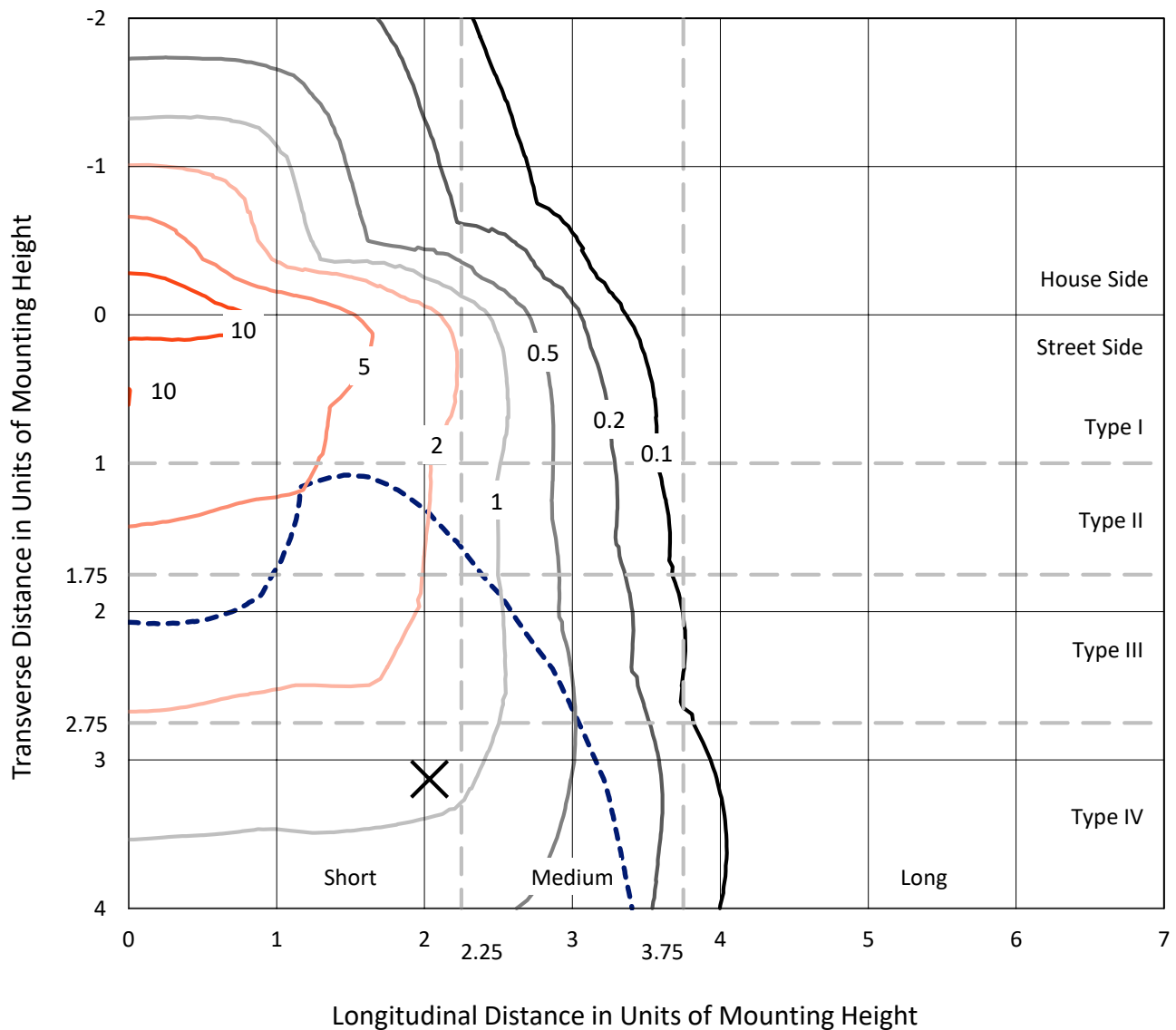
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

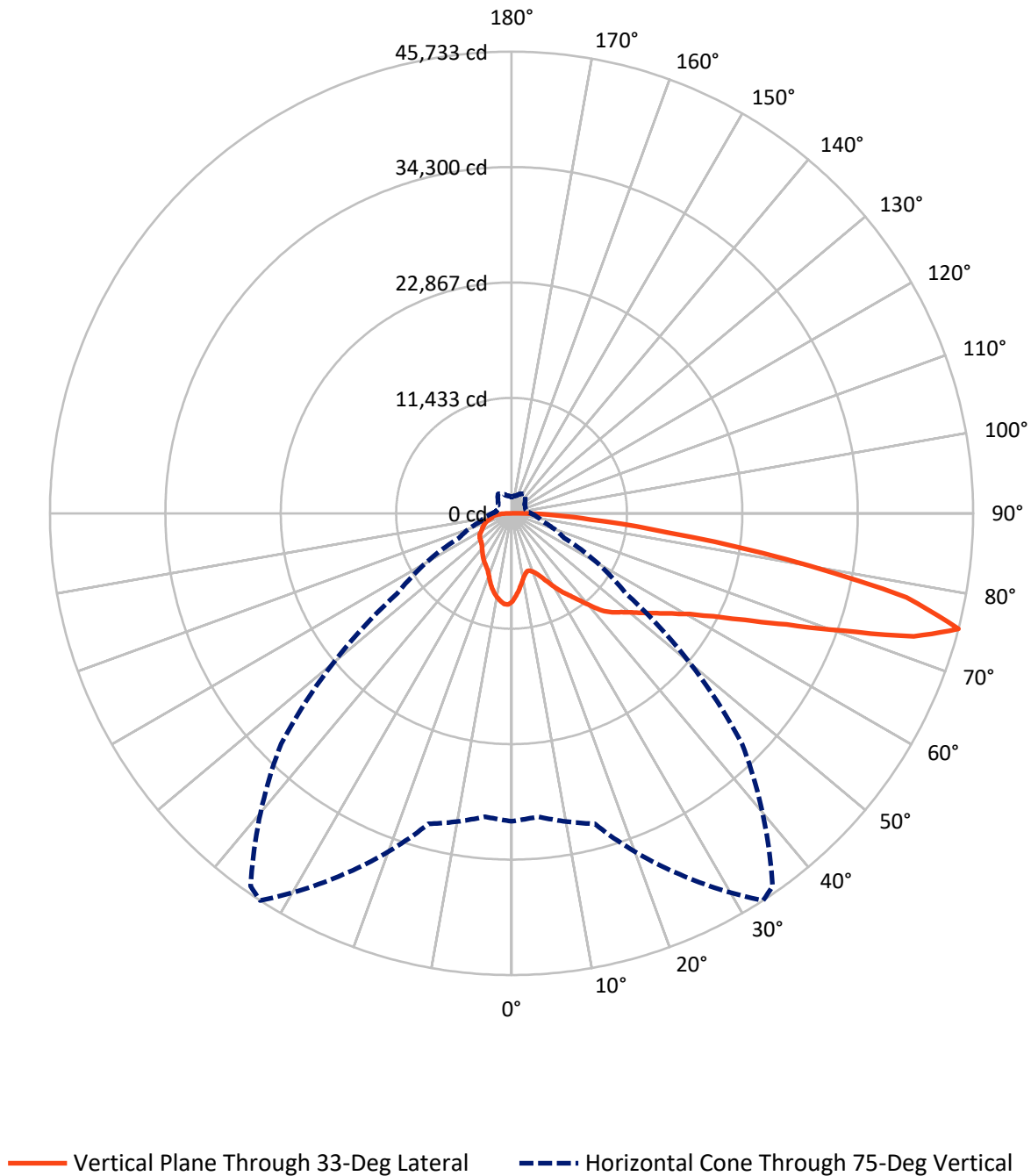
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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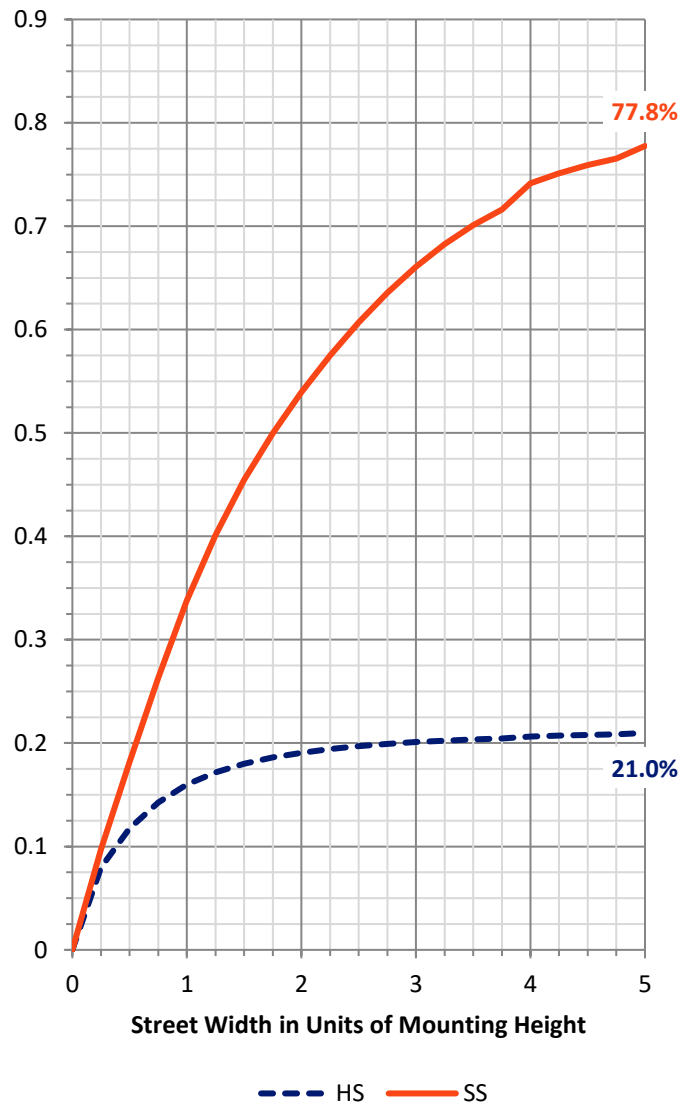
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12017.6	0.0	12017.6
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	43949.4	0.0	43949.4
	% Fixture	78.5	0.0	78.5
Total	Lumens	55967.0	0.0	55967.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.1	1.4
10°-20°	2142.7	3.8
20°-30°	3499.4	6.3
30°-40°	5211.5	9.3
40°-50°	7474.6	13.4
50°-60°	10261.5	18.3
60°-70°	12847.0	23.0
70°-80°	11622.1	20.8
80°-90°	2117.0	3.8
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°	55967.0	100.0
0°-180°	55967.0	100.0

Coefficient of Utilization



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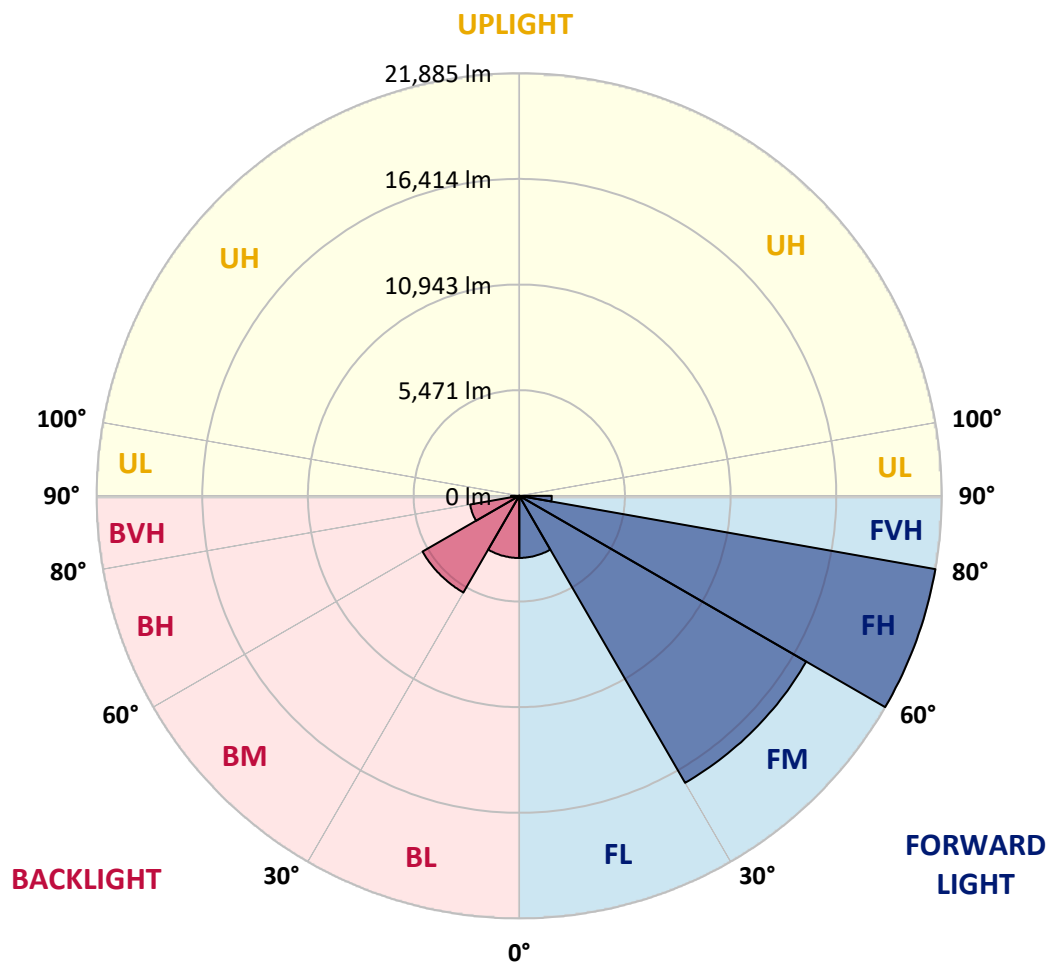
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3214.4	5.7			
FM	(30°-60°)	17163.9	30.7			
FH	(60°-80°)	21885.0	39.1			G5
FVH	(80°-90°)	1686.0	3.0			G5
BL	(0°-30°)	3218.9	5.8	B4/5000		
BM	(30°-60°)	5783.7	10.3	B4/8500		
BH	(60°-80°)	2584.0	4.6	B4/5000		G4/5000
BVH	(80°-90°)	431.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0
2.5°	8123.5	8092.6	8150.6	8158.3	8208.6	8227.9	8297.5	8405.8	8494.7	8597.2	8690.0
5°	7386.9	7365.7	7446.9	7504.9	7615.1	7661.5	7825.8	8055.9	8260.8	8492.8	8703.5
7.5°	6687.1	6675.5	6766.4	6897.8	7025.4	7089.2	7373.4	7707.9	8050.1	8425.1	8748.0
10°	6097.5	6093.6	6180.6	6310.1	6497.7	6569.2	6936.5	7377.3	7856.7	8372.9	8823.4
12.5°	5766.9	5780.4	5821.0	5929.3	6103.3	6174.8	6582.7	7100.8	7694.3	8355.5	8933.5
15°	5848.1	5869.3	5799.7	5795.9	5919.6	5975.7	6358.5	6903.6	7578.3	8384.5	9094.0
17.5°	6194.1	6198.0	6014.3	5898.3	5973.7	6002.7	6288.9	6791.5	7510.7	8450.2	9295.1
20°	6681.3	6671.6	6346.9	6153.5	6194.1	6201.9	6387.5	6793.4	7504.9	8564.3	9556.1
22.5°	7327.0	7255.5	6818.6	6555.7	6546.0	6534.4	6640.7	6936.5	7589.9	8749.9	9867.3
25°	8169.9	8102.3	7501.0	7141.4	7064.1	7035.1	7050.6	7242.0	7758.1	8949.0	10215.3
27.5°	9107.5	8989.6	8409.6	7901.2	7740.7	7700.1	7607.3	7673.1	7941.8	9140.4	10629.0
30°	9892.4	9828.6	9322.1	8719.0	8529.5	8471.5	8227.9	8156.4	8206.6	9401.4	11151.0
32.5°	10331.3	10288.8	9981.4	9494.2	9318.3	9237.1	8892.9	8749.9	8632.0	9813.2	11858.6
35°	10862.9	10835.9	10650.3	10296.5	10035.5	9950.4	9683.6	9534.8	9231.3	10379.6	12773.0
37.5°	11539.6	11510.6	11514.4	11228.3	10917.1	10837.8	10661.9	10505.3	10008.4	11123.9	13766.7
40°	12305.1	12249.1	12227.8	12214.3	12017.1	11972.6	11879.8	11667.2	10982.8	12013.2	14746.8
42.5°	13457.4	13258.2	12832.9	12993.4	13188.6	13165.4	13240.8	12935.4	12065.4	13064.9	15703.8
45°	14569.0	14242.3	13507.6	13542.4	13969.7	14099.2	14663.7	14447.2	13238.9	14217.1	16693.6
47.5°	15075.5	14828.0	14203.6	14205.5	14628.9	14897.6	16134.9	15980.2	14472.3	15525.9	17901.9
50°	15641.9	15394.5	14833.8	15044.6	15413.8	15699.9	17555.8	17476.6	15645.8	16958.5	19349.9
52.5°	16260.6	15841.0	15485.3	15862.3	16380.4	16712.9	18978.7	18762.2	16722.6	18400.7	21014.4
55°	16268.3	16154.2	16424.9	16701.3	17476.6	17884.5	20469.3	19897.0	17600.3	19817.7	22369.6
57.5°	17194.3	17008.7	17582.9	17710.5	18723.5	19183.6	21952.1	20884.9	18493.5	20904.2	23100.4
60°	18420.0	18261.5	18731.3	19067.6	20266.3	20881.0	23535.4	21899.9	19195.2	21723.9	23065.6
62.5°	20536.9	20357.1	20351.3	20823.0	22437.3	23152.6	25312.0	22895.5	19473.6	21886.3	22081.6
65°	23635.9	23349.8	22810.4	23034.7	25435.8	26149.1	27297.5	23616.6	19106.3	21016.4	19547.1
67.5°	26651.8	26642.1	25979.0	26439.1	29395.1	29967.3	29559.4	23688.1	17959.9	17987.0	15050.4
70°	29658.0	29696.7	29584.5	31185.3	34744.4	35339.8	31968.2	22727.3	15382.9	12989.5	9016.7
72.5°	32039.8	32030.1	32594.6	36722.1	41686.7	41553.3	33998.1	19815.8	11044.7	7011.9	4309.2
75°	30497.0	30160.6	31842.6	39463.4	45733.0	45081.5	32271.7	13822.7	5732.1	3191.8	2319.9
77.5°	19891.2	20210.2	22679.0	32600.4	40002.8	39210.2	23676.5	6449.3	2700.8	2093.7	1681.9
80°	7203.3	7539.7	10619.3	18466.4	27560.4	27430.9	11659.4	2650.5	1826.9	1581.4	1225.7
82.5°	2478.4	2602.2	4189.4	8200.8	15560.7	16140.7	4386.5	1506.0	1328.1	1121.3	839.0
85°	972.4	1113.6	1915.9	3945.8	7849.0	7907.0	1776.7	900.9	924.1	734.6	460.1
87.5°	369.3	448.5	916.4	1832.7	3584.2	3292.3	636.0	429.2	525.8	436.9	218.5
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°	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0	8748.0
2.5°	8761.5	8802.1	8887.1	8945.1	9007.0	9024.4	9032.1	9047.6	9063.1	9057.3	9059.2
5°	8815.6	8894.9	9032.1	9090.1	9117.2	9086.3	9026.3	8978.0	8943.2	8923.9	8918.1
7.5°	8904.5	9016.7	9163.6	9153.9	9092.1	8954.8	8800.2	8684.2	8587.5	8552.7	8533.4
10°	9022.5	9153.9	9256.4	9146.2	8966.4	8728.6	8496.6	8316.8	8171.8	8115.8	8106.1
12.5°	9173.3	9306.7	9326.0	9092.1	8794.4	8469.6	8154.4	7916.7	7700.1	7630.5	7615.1
15°	9368.5	9494.2	9374.3	8997.3	8581.7	8144.8	7736.9	7414.0	7185.9	7100.8	7069.9
17.5°	9573.5	9693.3	9384.0	8840.8	8303.3	7760.1	7247.8	6917.2	6656.2	6557.6	6546.0
20°	9819.0	9873.1	9343.4	8616.5	7920.5	7261.3	6721.9	6410.7	6271.5	6201.9	6194.1
22.5°	10122.5	10064.5	9250.6	8313.0	7435.3	6685.2	6246.3	6101.3	6066.5	6051.1	6056.9
25°	10443.4	10265.6	9113.3	7916.7	6822.4	6109.1	5898.3	5938.9	5985.3	5979.5	5979.5
27.5°	10797.2	10470.5	8902.6	7390.8	6143.9	5637.4	5662.5	5811.3	5880.9	5879.0	5877.1
30°	11251.5	10702.5	8633.9	6758.6	5509.8	5304.8	5457.6	5639.3	5734.0	5730.2	5732.1
32.5°	11810.2	10957.7	8268.5	6053.0	5051.6	5059.3	5235.2	5415.0	5525.2	5515.6	5517.5
35°	12463.7	11243.8	7773.6	5357.0	4748.1	4864.1	5003.3	5128.9	5233.3	5219.8	5206.2
37.5°	13175.1	11524.1	7116.3	4734.5	4500.6	4682.3	4798.3	4819.6	4867.9	4833.1	4808.0
40°	13851.7	11738.7	6269.5	4224.2	4251.2	4527.7	4603.1	4518.0	4431.0	4419.4	4384.6
42.5°	14441.4	11810.2	5413.1	3816.2	3988.3	4365.3	4411.7	4233.8	4077.2	4003.8	3972.8
45°	15063.9	11835.4	4614.7	3474.1	3735.0	4220.3	4270.5	4032.8	3812.4	3653.8	3601.6
47.5°	15877.8	12017.1	3994.1	3220.8	3541.7	4123.6	4195.2	3872.3	3586.2	3360.0	3311.7
50°	16943.0	12376.7	3489.5	3027.5	3416.1	4059.8	4141.0	3715.7	3400.6	3128.0	3079.7
52.5°	18126.2	12707.3	3081.6	2870.9	3294.3	3947.7	4071.4	3603.6	3226.6	2913.4	2861.2
55°	18953.6	12454.0	2752.9	2708.5	3135.7	3787.2	3974.8	3508.8	2977.2	2704.6	2658.2
57.5°	19112.1	11587.9	2503.6	2540.3	2944.3	3586.2	3825.9	3298.1	2841.9	2613.8	2565.4
60°	18679.1	10381.6	2318.0	2385.6	2739.4	3332.9	3547.5	3149.3	2712.3	2517.1	2476.5
62.5°	17590.6	9146.2	2180.7	2246.4	2548.0	3075.8	3373.5	2992.7	2580.9	2406.9	2366.3
65°	15392.5	7678.9	2049.2	2122.7	2370.2	2853.5	3216.9	2847.7	2451.4	2318.0	2279.3
67.5°	11618.8	5751.4	1925.5	1991.2	2211.6	2660.2	3046.8	2704.6	2325.7	2240.6	2194.2
70°	6841.8	3601.6	1784.4	1854.0	2045.4	2459.1	2865.1	2548.0	2169.1	2130.4	2070.5
72.5°	3184.1	2167.2	1623.9	1691.6	1836.6	2190.4	2631.2	2343.1	1983.5	1898.5	1817.3
75°	1900.4	1585.3	1434.5	1494.4	1596.9	1904.3	2337.3	2134.3	1807.6	1695.5	1610.4
77.5°	1420.9	1212.1	1225.7	1289.5	1372.6	1666.5	2070.5	1970.0	1672.3	1585.3	1527.3
80°	1022.7	920.2	999.5	1069.1	1156.1	1515.7	1983.5	1821.1	1511.8	1395.8	1341.7
82.5°	682.4	661.2	752.0	823.6	908.6	1326.2	1863.7	1594.9	1291.4	1144.5	1024.6
85°	377.0	398.2	506.5	537.4	610.9	933.8	1527.3	1281.7	972.4	783.0	748.2
87.5°	156.6	183.7	272.6	262.9	324.8	556.8	1005.3	773.3	618.6	462.0	359.6
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)