

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: P319523

Luminaire Tested: **GAN-SA9B-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319523
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39770 lumens
Efficiency: N/A
Efficacy: 106.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 374
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

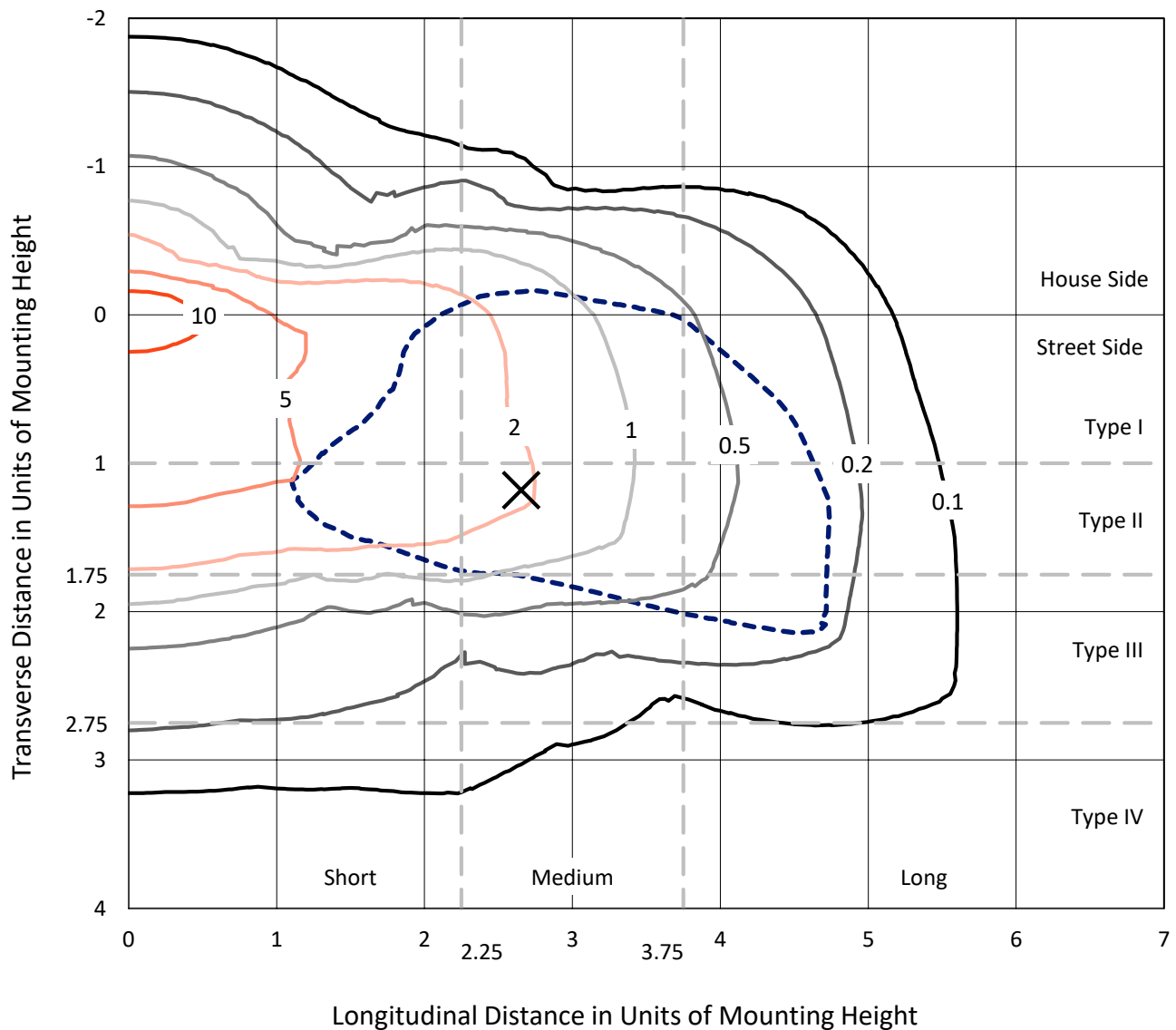


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Iso-Footcandle Lines of Horizontal Illumination

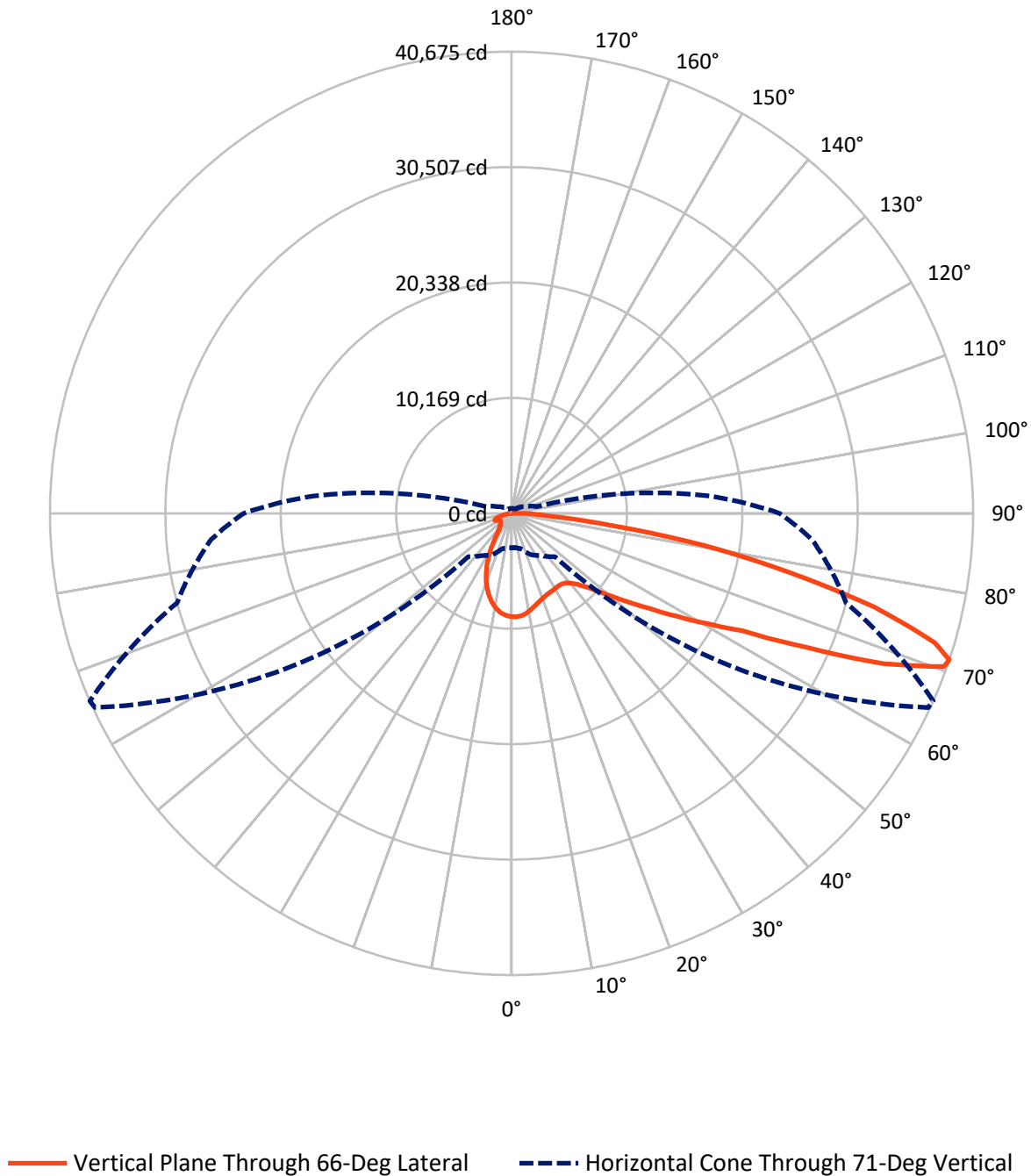
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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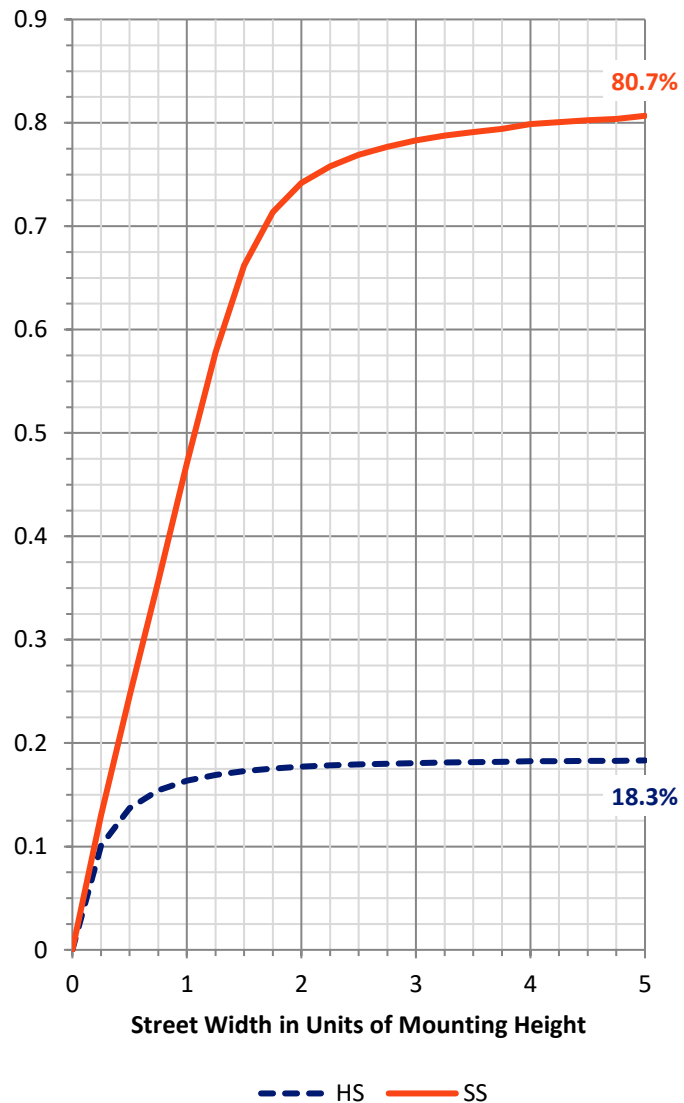
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7370.5	0.0	7370.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	32399.5	0.0	32399.5
	% Fixture	81.5	0.0	81.5
Total	Lumens	39770.0	0.0	39770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.9	2.0
10°-20°	1923.4	4.8
20°-30°	2583.6	6.5
30°-40°	3398.7	8.5
40°-50°	4944.2	12.4
50°-60°	7723.4	19.4
60°-70°	9674.8	24.3
70°-80°	7379.7	18.6
80°-90°	1340.1	3.4
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°	39770.0	100.0
0°-180°	39770.0	100.0

Coefficient of Utilization



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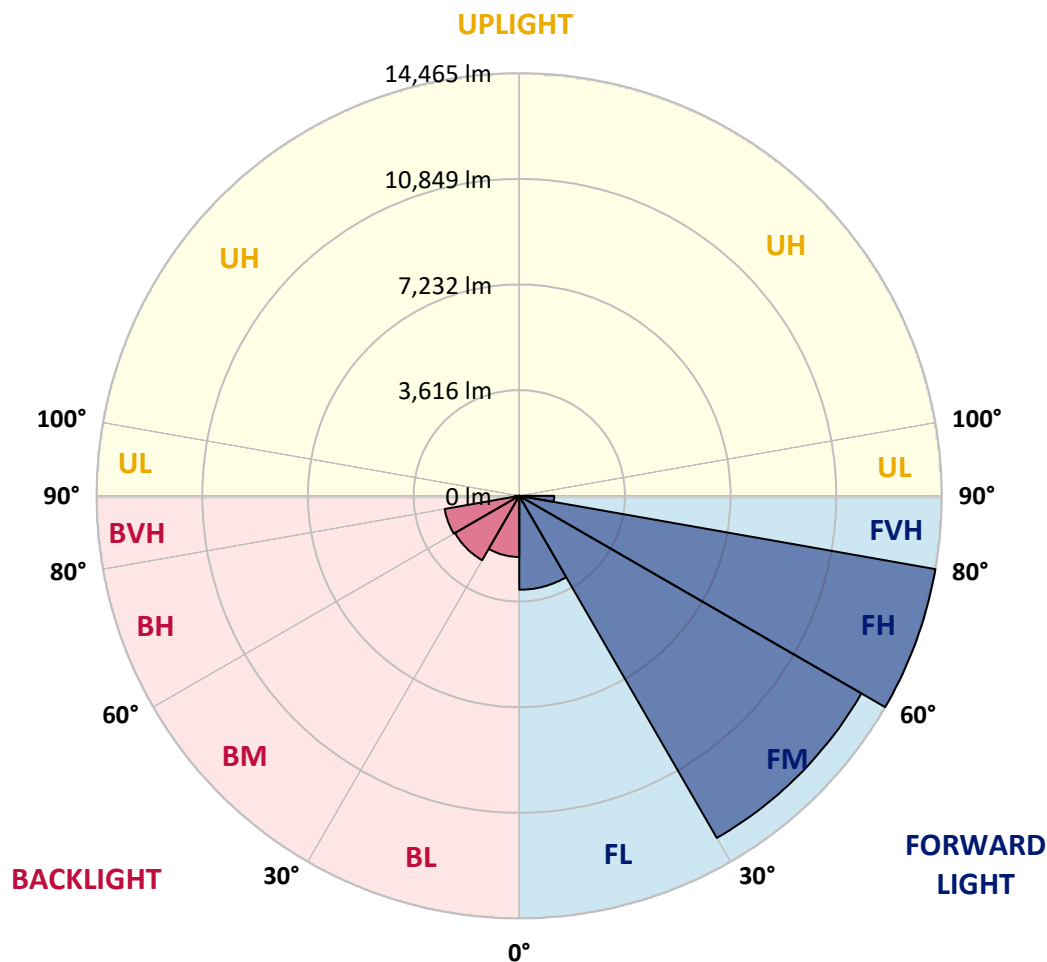
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3216.0	8.1			
FM	(30°-60°)	13523.8	34.0			
FH	(60°-80°)	14464.8	36.4			G5
FVH	(80°-90°)	1195.0	3.0			G5
BL	(0°-30°)	2093.0	5.3	B3/2500		
BM	(30°-60°)	2542.6	6.4	B3/5000		
BH	(60°-80°)	2589.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	145.1	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5
2.5°	8941.6	8927.9	8969.1	9011.7	9028.2	9055.6	9096.8	9120.1	9118.8	9122.9	9109.2
5°	8348.5	8330.6	8413.0	8480.3	8609.4	8754.9	8932.0	9058.4	9061.1	9132.5	9151.7
7.5°	7786.9	7774.5	7869.3	7977.7	8127.4	8349.8	8636.8	8908.7	8925.2	9118.8	9186.1
10°	7336.5	7333.7	7425.7	7543.8	7718.2	7966.7	8296.3	8694.5	8719.2	9052.9	9191.6
12.5°	6985.0	6990.5	7070.1	7204.7	7388.7	7648.2	8005.2	8454.2	8494.0	8948.5	9160.0
15°	6725.5	6747.4	6812.0	6947.9	7129.1	7392.8	7759.4	8231.8	8292.2	8831.8	9142.1
17.5°	6577.2	6601.9	6647.2	6759.8	6930.0	7184.1	7531.5	8049.1	8104.1	8742.5	9143.5
20°	6533.2	6553.8	6579.9	6648.6	6792.7	7023.4	7351.6	7884.4	7943.4	8671.1	9157.2
22.5°	6619.7	6634.8	6637.6	6632.1	6720.0	6908.1	7221.1	7763.5	7826.7	8624.5	9166.8
25°	6805.1	6825.7	6810.6	6759.8	6730.9	6846.3	7153.9	7683.9	7747.0	8590.1	9147.6
27.5°	7083.8	7086.6	7074.2	7008.3	6872.4	6853.2	7133.3	7637.2	7697.6	8550.3	9107.8
30°	7462.8	7480.7	7458.7	7369.4	7147.0	6963.0	7158.0	7591.9	7646.8	8499.5	9043.3
32.5°	7906.3	7950.3	7948.9	7855.5	7537.0	7208.8	7259.6	7564.4	7607.0	8446.0	8965.0
35°	8366.3	8426.7	8539.3	8499.5	8105.4	7597.4	7454.6	7608.4	7637.2	8439.1	8910.1
37.5°	8844.2	8904.6	9136.6	9243.7	8782.4	8153.5	7762.2	7763.5	7777.3	8522.8	8905.9
40°	9344.0	9408.5	9757.3	10036.0	9659.8	8857.9	8257.8	8087.6	8072.5	8728.8	8987.0
42.5°	10044.2	10101.9	10520.7	10876.3	10633.3	9760.0	8943.0	8587.4	8555.8	9132.5	9246.5
45°	10929.9	10979.3	11424.2	11804.6	11679.6	10789.8	9804.0	9275.3	9269.8	9805.3	9772.4
47.5°	11983.1	12021.5	12421.1	12789.1	12834.4	11974.8	10886.0	10336.7	10247.5	10728.1	10586.6
50°	13080.2	13122.7	13394.6	13790.1	14126.5	13560.8	12278.3	11637.0	11517.6	11946.0	11740.0
52.5°	13806.5	13862.8	14099.0	14600.2	15579.2	15299.1	13924.6	13213.4	13032.1	13422.1	13264.2
55°	13482.5	13608.8	13969.9	14773.2	16740.9	17954.7	15955.5	15052.0	14847.4	15171.4	15078.0
57.5°	12009.2	12182.2	12675.1	13915.0	16904.3	20294.5	19025.7	17217.3	17073.2	16979.8	17022.4
60°	9316.5	9482.6	10093.7	11709.8	15766.0	22002.6	23646.2	19886.6	19677.9	18795.0	18833.5
62.5°	6593.6	6509.9	6928.7	8110.9	12811.0	22203.1	28903.8	23456.7	22770.2	20711.9	20543.0
65°	5028.3	5009.1	5197.2	5573.4	7759.4	19804.3	32035.9	29457.2	28384.8	22966.5	22568.3
67.5°	4131.7	4097.3	4282.7	4830.6	4996.7	12776.7	32104.5	36418.8	35365.6	25773.1	24910.8
70°	3397.1	3358.6	3531.6	4238.8	4617.7	6479.7	27019.9	40495.5	40439.3	29326.7	26679.4
71°	3045.5	3018.1	3225.4	4010.8	4536.7	5400.4	23329.0	40506.5	40675.4	30529.6	26575.0
72.5°	2479.8	2489.4	2709.1	3570.1	4476.3	4768.8	17145.9	38618.5	38975.5	31676.1	25626.2
75°	1647.7	1656.0	1944.3	2746.2	4340.4	4665.8	9423.6	32405.2	33061.6	30989.6	23383.9
77.5°	1106.7	1104.0	1300.3	1883.9	3781.5	4665.8	5525.4	24236.6	24957.5	24658.2	18027.5
80°	762.1	756.6	895.3	1300.3	2862.9	4722.1	4271.7	16985.3	17203.6	13316.4	7326.9
82.5°	466.9	471.0	584.9	918.6	1948.4	4249.8	4032.8	9261.6	9024.0	3734.8	1830.3
85°	267.8	266.4	373.5	622.0	1250.9	3586.5	3932.6	3986.1	3656.6	1124.6	661.8
87.5°	96.1	103.0	200.5	344.6	716.8	2497.7	3336.6	2073.4	1868.8	508.0	299.3
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°	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5	9110.5
2.5°	9099.6	9107.8	9098.2	9043.3	8996.6	8921.0	8878.5	8819.4	8801.6	8793.4	8815.3
5°	9133.9	9136.6	9055.6	8911.4	8749.4	8558.5	8421.2	8252.3	8172.7	8138.4	8160.3
7.5°	9165.5	9153.1	8976.0	8700.0	8400.6	8068.4	7773.1	7502.6	7344.7	7280.2	7285.7
10°	9169.6	9117.4	8833.2	8406.1	7942.0	7454.6	7001.5	6584.0	6320.4	6148.8	6200.9
12.5°	9127.0	9039.1	8623.1	8025.8	7381.8	6717.2	6104.8	5478.7	5102.4	4928.1	4933.6
15°	9094.1	8934.8	8364.9	7578.2	6713.1	5832.9	4996.7	4260.7	3859.8	3681.3	3597.5
17.5°	9066.6	8822.2	8065.6	7074.2	5923.6	4807.2	3802.1	3145.8	2926.1	2873.9	2851.9
20°	9028.2	8702.7	7731.9	6490.7	5024.2	3659.3	2776.4	2452.4	2453.7	2514.2	2522.4
22.5°	8974.6	8566.8	7376.3	5835.7	4058.9	2665.2	2176.4	2083.0	2177.7	2293.1	2313.7
25°	8895.0	8406.1	6980.9	5112.1	3095.0	2048.7	1859.2	1855.1	1970.4	2091.2	2109.1
27.5°	8782.4	8196.1	6541.5	4334.9	2280.7	1741.1	1665.6	1694.4	1779.5	1867.4	1874.3
30°	8631.3	7951.6	6056.8	3515.1	1787.8	1550.2	1542.0	1568.1	1620.3	1682.1	1687.5
32.5°	8465.2	7703.1	5539.1	2721.5	1531.0	1447.3	1455.5	1467.8	1492.6	1517.3	1522.8
35°	8314.1	7449.1	5009.1	2067.9	1408.8	1380.0	1374.5	1371.7	1374.5	1366.2	1367.6
37.5°	8216.6	7239.0	4457.1	1646.4	1338.8	1320.9	1304.4	1283.9	1260.5	1246.8	1249.5
40°	8180.9	7082.5	3898.2	1422.5	1281.1	1268.7	1237.2	1193.2	1165.8	1157.5	1157.5
42.5°	8277.1	7001.5	3358.6	1309.9	1233.0	1212.4	1160.3	1109.5	1088.9	1087.5	1086.1
45°	8570.9	7034.4	2845.1	1248.2	1189.1	1149.3	1080.6	1038.1	1024.3	1027.1	1025.7
47.5°	9098.2	7241.7	2405.7	1207.0	1145.2	1093.0	1016.1	981.8	965.3	965.3	966.7
50°	9994.8	7726.4	2055.5	1172.6	1108.1	1040.8	969.4	926.8	904.9	903.5	903.5
52.5°	11300.6	8594.3	1837.2	1143.8	1066.9	994.1	922.7	869.2	843.1	837.6	834.8
55°	12937.4	9838.3	1776.8	1124.6	1012.0	943.3	866.4	812.9	784.0	771.7	770.3
57.5°	14767.7	11351.4	1896.3	1101.2	955.7	882.9	804.6	753.8	723.6	708.5	707.1
60°	16620.0	13003.3	2383.7	1068.3	909.0	817.0	741.5	694.8	664.6	648.1	645.4
62.5°	18475.1	14744.4	3379.2	1065.5	876.0	753.8	676.9	637.1	608.3	590.4	586.3
65°	20567.7	16650.2	4510.6	1138.3	865.1	696.2	611.0	579.4	554.7	538.3	536.9
67.5°	22970.6	18801.9	4402.2	1288.0	902.1	644.0	549.2	524.5	506.7	492.9	491.6
70°	24098.0	18465.5	2736.6	1393.7	954.3	593.2	490.2	472.3	458.6	449.0	444.9
71°	23625.6	17533.1	2294.5	1381.3	948.8	571.2	466.9	453.1	439.4	431.2	427.0
72.5°	22337.6	15989.8	1914.1	1285.2	887.0	531.4	436.6	422.9	410.6	400.9	398.2
75°	20044.6	14280.3	1532.4	1027.1	707.1	449.0	383.1	368.0	358.4	352.9	347.4
77.5°	14734.8	10191.2	1185.0	811.5	520.4	366.6	326.8	315.8	306.2	298.0	293.8
80°	5644.8	3947.7	797.8	605.5	381.7	289.7	263.6	258.1	248.5	243.0	243.0
82.5°	1520.0	1179.5	425.7	366.6	255.4	211.5	201.8	199.1	190.9	179.9	181.2
85°	615.2	520.4	238.9	201.8	156.5	125.0	135.9	137.3	127.7	114.0	115.3
87.5°	270.5	221.1	133.2	89.3	68.7	48.1	61.8	61.8	56.3	46.7	42.6
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)