

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: P266944

Luminaire Tested: **GAN-AF-05-LED-U-T2R-7027-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P266944
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24657)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-T2R-7027-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26927.9 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 279
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: 28.75 FT

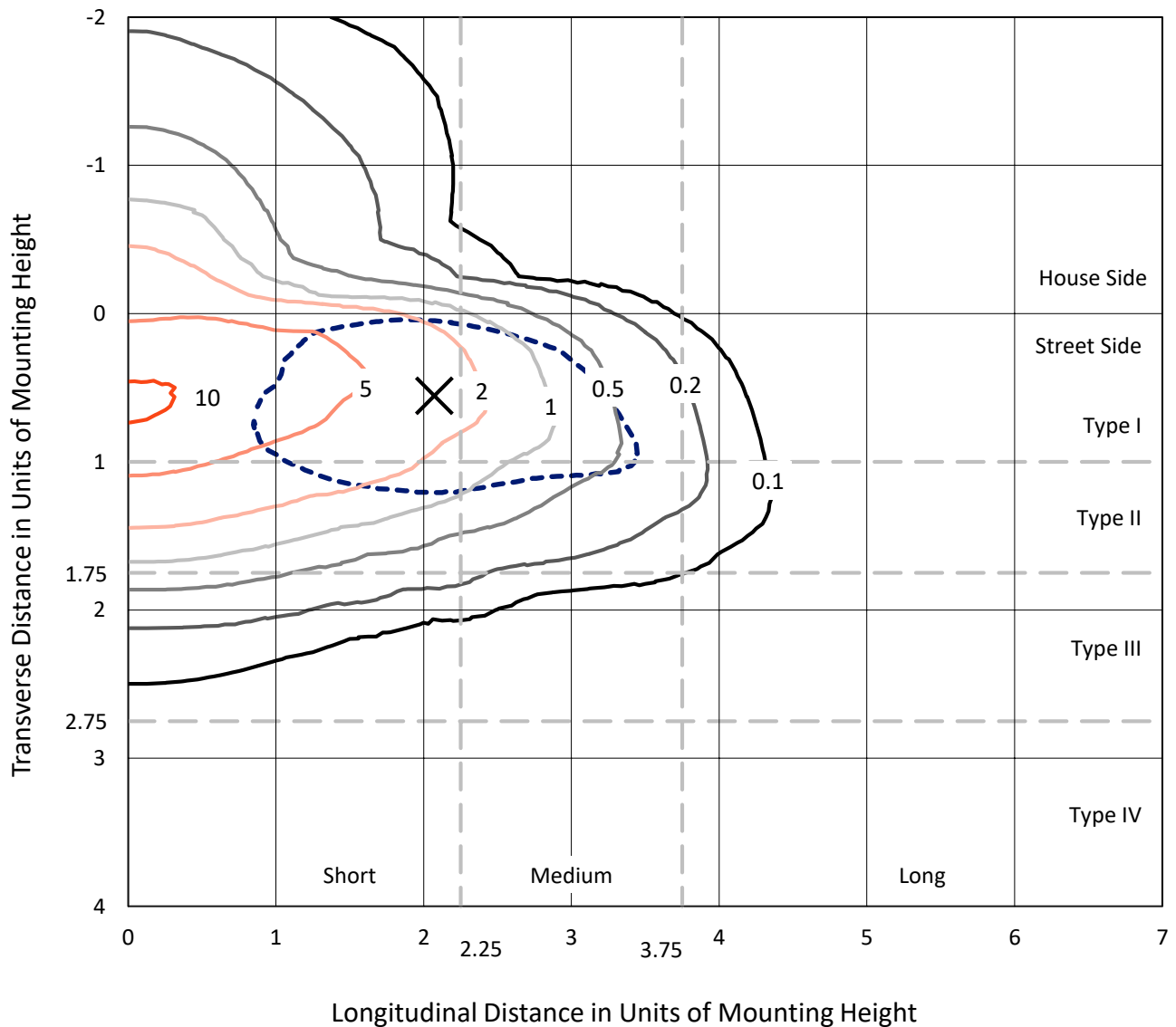


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Iso-Footcandle Lines of Horizontal Illumination

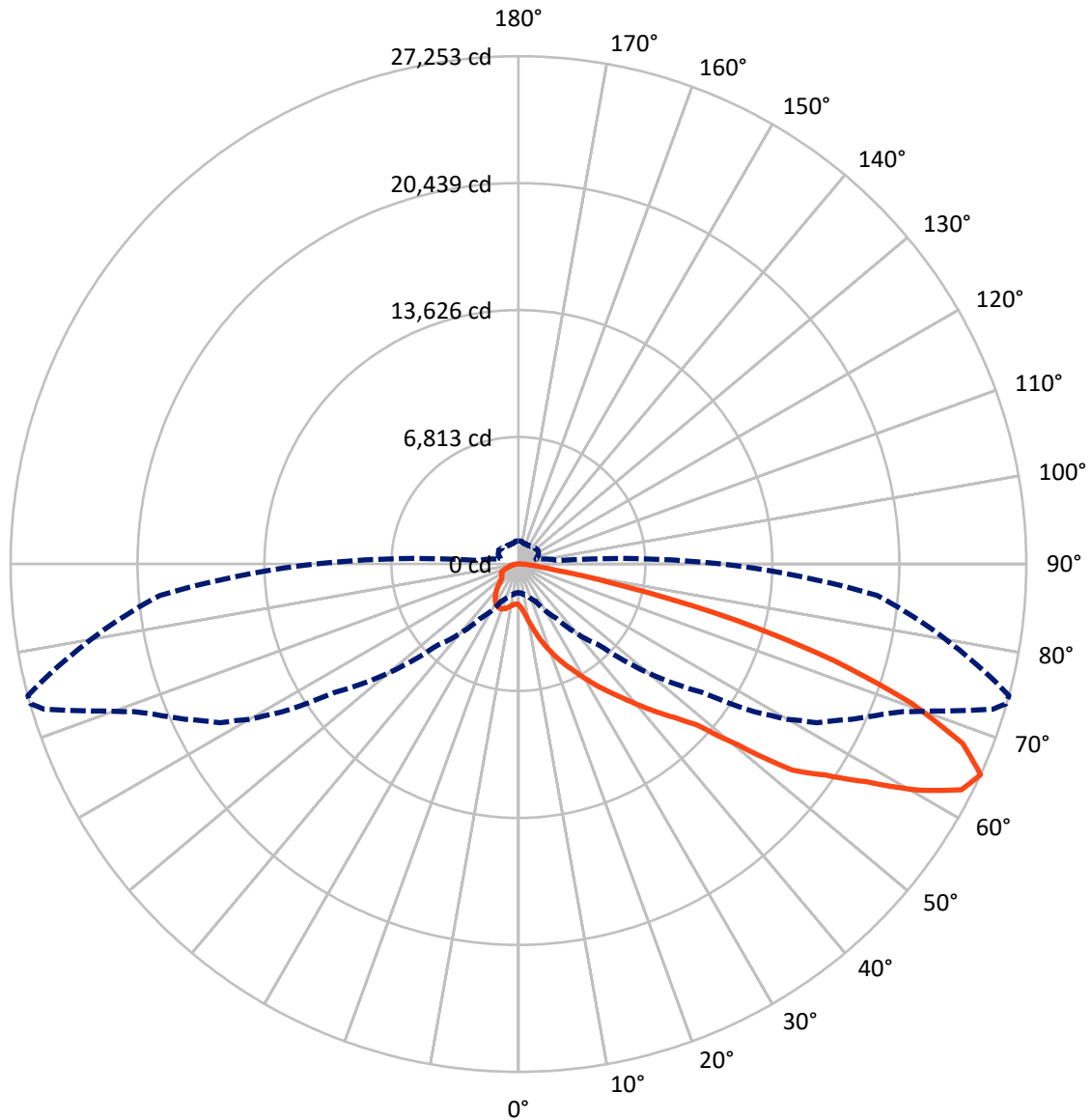
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4151.7	0.0	4151.7
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	22776.3	0.0	22776.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	26927.9	0.0	26927.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	270.5	1.0
10°-20°	1056.9	3.9
20°-30°	2168.4	8.1
30°-40°	3648.2	13.5
40°-50°	5040.8	18.7
50°-60°	6292.4	23.4
60°-70°	5662.5	21.0
70°-80°	2373.7	8.8
80°-90°	414.7	1.5
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°	26927.9	100.0
0°-180°	26927.9	100.0

Coefficient of Utilization



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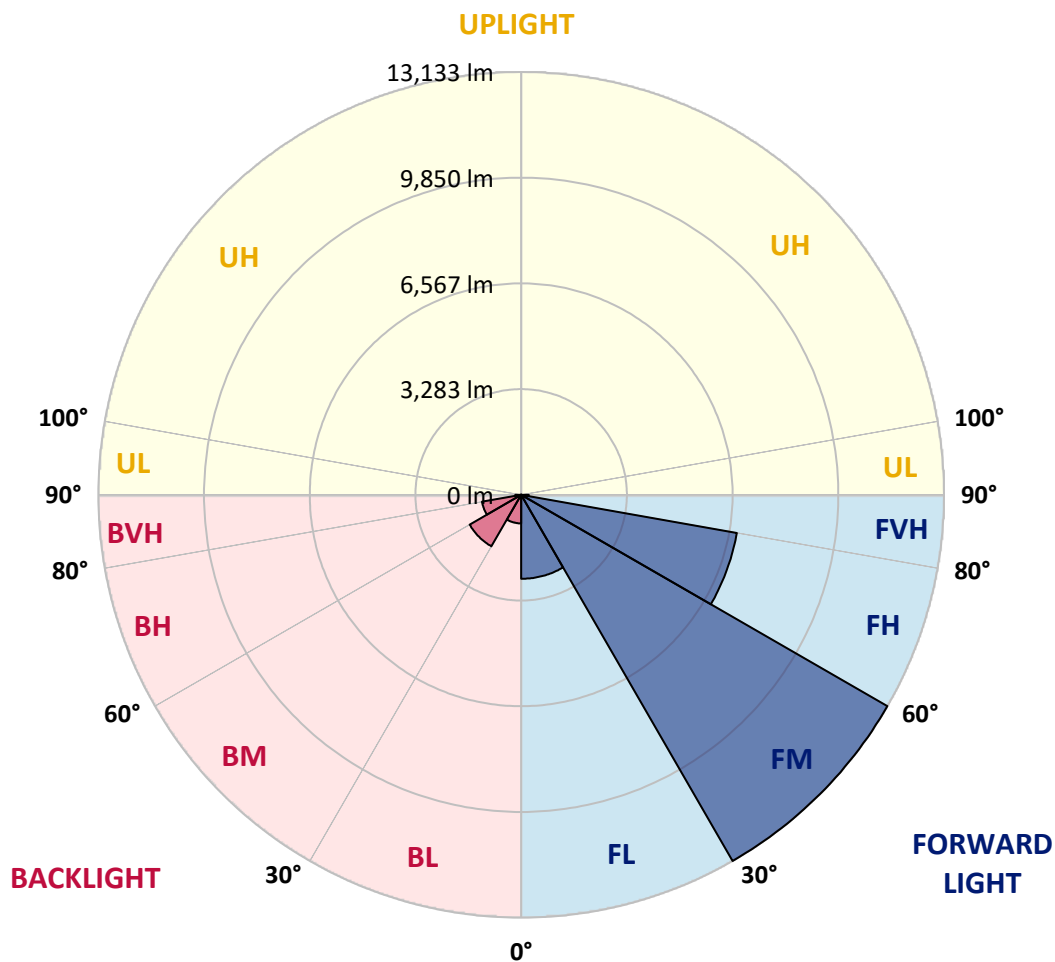
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2607.9	9.7			
FM	(30°-60°)	13133.4	48.8			
FH	(60°-80°)	6801.9	25.3			G3/7500
FVH	(80°-90°)	233.1	0.9			G3/500
BL	(0°-30°)	887.9	3.3	B2/1000		
BM	(30°-60°)	1848.0	6.9	B2/2500		
BH	(60°-80°)	1234.2	4.6	B3/2500		G3/2500
BVH	(80°-90°)	181.6	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5
2.5°	2778.5	2747.9	2755.6	2704.5	2642.2	2560.6	2470.1	2468.8	2470.1	2461.1	2427.9
5°	3853.0	3816.0	3801.9	3687.4	3519.0	3279.4	3019.5	2991.4	2979.9	2950.7	2883.0
7.5°	4636.8	4616.4	4594.8	4508.1	4355.2	4087.5	3738.2	3678.4	3621.0	3607.0	3530.5
10°	5142.8	5137.8	5091.9	5068.9	4973.2	4741.3	4401.1	4343.7	4281.2	4259.6	4179.3
12.5°	5543.0	5541.7	5520.1	5526.5	5443.5	5275.3	4982.2	4930.0	4884.1	4817.8	4760.5
15°	5819.6	5820.8	5852.7	5888.4	5875.8	5762.3	5486.9	5464.0	5424.5	5378.6	5311.0
17.5°	6046.5	6052.9	6085.9	6151.1	6221.1	6212.1	5994.2	5975.0	5940.8	5878.2	5842.5
20°	6558.9	6583.0	6519.3	6519.3	6526.9	6561.4	6456.8	6441.6	6393.1	6360.0	6332.1
22.5°	7424.3	7452.2	7308.3	7161.6	7017.6	6913.1	6808.7	6827.7	6794.6	6771.8	6755.2
25°	8548.5	8570.1	8336.9	8089.5	7796.4	7414.2	7155.4	7144.0	7126.1	7112.1	7104.3
27.5°	9606.4	9615.3	9394.7	9032.7	8692.4	8143.1	7507.1	7493.1	7471.5	7444.7	7421.7
30°	10511.2	10508.7	10281.8	9936.4	9571.9	8963.9	8041.2	7997.8	7934.1	7861.4	7805.4
32.5°	11295.1	11291.2	11042.8	10684.6	10302.2	9777.2	8772.8	8683.6	8584.2	8442.6	8357.2
35°	11912.0	11909.4	11674.9	11301.4	10863.1	10543.0	9611.4	9501.8	9375.6	9185.7	9054.5
37.5°	12145.3	12145.3	12013.9	11759.1	11371.6	11152.4	10543.0	10410.5	10275.4	10060.1	9912.2
40°	12008.8	12011.3	12039.4	11992.3	11803.6	11635.3	11412.3	11333.3	11217.3	11023.6	10869.4
42.5°	11551.2	11565.3	11751.4	11979.5	12073.8	12047.1	12183.4	12147.8	12066.3	11917.0	11794.7
45°	10971.4	11014.7	11218.7	11649.4	12149.0	12402.7	12829.7	12833.5	12818.2	12737.8	12643.6
47.5°	10174.7	10235.9	10504.9	11087.3	11973.1	12748.0	13486.1	13520.5	13552.3	13500.1	13456.7
50°	9116.9	9189.5	9592.3	10364.6	11615.1	13106.2	14726.2	14881.7	15026.9	15009.2	15038.4
52.5°	7983.7	8069.1	8562.5	9422.9	10999.3	13189.0	15518.9	15772.6	16026.2	16234.0	16454.6
55°	6961.7	6915.7	7409.0	8315.3	9987.4	12815.6	16231.5	16537.3	16820.4	17075.3	17337.7
57.5°	5576.1	5651.3	6145.9	7042.0	8647.9	11761.6	16722.2	17169.6	17576.1	17998.0	18370.2
60°	4076.0	4151.2	4687.9	5597.9	7193.5	10163.3	16347.4	17025.4	17676.8	18323.0	18827.8
62.5°	2461.1	2517.2	2990.1	3856.9	5546.9	8268.0	14677.8	15567.4	16525.8	17298.2	18071.9
65°	1532.0	1563.9	1738.5	2215.2	3562.4	6172.7	11992.3	12962.3	13994.7	14974.7	15779.0
67.5°	1254.2	1265.6	1297.5	1399.5	1956.5	4025.0	8925.6	9784.8	10716.4	11664.8	12559.5
70°	1128.0	1120.4	1120.4	1126.7	1254.2	2164.1	5843.8	6403.4	7179.6	8004.2	8822.4
72.5°	1018.4	1010.8	996.7	977.5	1023.4	1320.5	3020.7	3442.6	4002.0	4735.0	5518.7
75°	915.2	905.0	888.3	864.2	896.0	996.7	1450.5	1627.5	1900.4	2290.4	2727.6
77.5°	808.0	795.3	780.0	762.2	802.9	775.0	850.2	913.8	1018.4	1143.3	1307.8
80°	686.9	675.5	670.5	661.5	709.9	590.1	600.2	639.9	700.9	768.6	845.0
82.5°	537.8	537.8	558.2	562.1	615.6	424.4	448.7	483.1	514.9	550.7	586.4
85°	354.3	356.8	425.6	452.4	485.7	285.5	336.4	348.0	373.4	393.8	409.2
87.5°	110.9	119.8	260.0	288.0	279.2	161.9	206.5	211.6	229.3	243.4	256.1
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):

	60°	61°	62°	63°	64°	65°	66°	67°	68°	69°	70°
0°	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5
2.5°	2427.9	2412.8	2398.7	2397.4	2387.2	2373.2	2378.4	2356.7	2358.0	2346.5	2333.6
5°	2855.1	2844.8	2793.8	2779.8	2741.5	2717.4	2713.5	2662.5	2656.2	2626.9	2595.1
7.5°	3469.3	3436.1	3364.8	3330.3	3265.3	3217.0	3194.1	3126.6	3093.4	3016.9	2982.5
10°	4113.0	4070.8	3982.9	3934.5	3872.1	3794.4	3752.3	3654.1	3615.9	3545.8	3461.7
12.5°	4709.5	4667.5	4577.0	4539.9	4457.1	4374.2	4328.5	4217.5	4167.7	4055.7	3989.4
15°	5261.4	5219.3	5140.3	5102.1	5019.2	4951.6	4890.5	4780.9	4722.2	4617.6	4531.1
17.5°	5796.7	5752.0	5683.2	5648.8	5568.6	5499.8	5433.4	5330.3	5270.3	5165.8	5088.0
20°	6293.7	6260.6	6210.9	6165.0	6084.7	6022.2	5943.2	5854.1	5767.4	5690.9	5616.9
22.5°	6727.0	6714.3	6660.8	6640.5	6571.6	6518.1	6449.2	6361.3	6298.8	6202.0	6133.2
25°	7100.6	7096.7	7071.2	7064.9	7016.4	6965.5	6950.1	6877.6	6820.1	6734.8	6663.4
27.5°	7421.7	7425.6	7419.2	7437.0	7424.3	7401.3	7402.7	7378.4	7345.3	7273.8	7211.5
30°	7778.7	7758.2	7769.7	7795.2	7802.8	7805.4	7847.5	7861.4	7858.9	7811.8	7781.2
32.5°	8283.4	8234.9	8190.2	8186.4	8211.9	8222.1	8293.5	8330.5	8362.3	8373.8	8378.9
35°	8926.9	8830.1	8737.0	8687.4	8644.0	8655.4	8706.6	8766.4	8836.4	8885.0	8942.3
37.5°	9737.5	9619.1	9454.7	9337.4	9308.1	9244.4	9277.4	9324.6	9393.4	9468.7	9568.0
40°	10720.3	10540.5	10355.8	10200.3	10116.2	9998.9	9997.5	9988.7	10030.7	10100.8	10241.0
42.5°	11666.0	11506.7	11310.4	11147.2	11037.7	10880.9	10849.0	10766.1	10785.3	10846.5	10982.9
45°	12551.7	12420.5	12300.8	12112.0	12019.1	11849.5	11796.1	11697.9	11643.0	11671.0	11807.4
47.5°	13409.5	13325.5	13200.6	13078.2	13006.7	12855.1	12786.4	12716.2	12646.1	12643.6	12786.4
50°	15081.9	15037.2	14889.3	14761.8	14796.3	14610.3	14621.7	14433.1	14518.4	14528.6	14828.1
52.5°	16653.3	16808.8	16918.4	17052.3	17138.9	17155.6	17212.9	17298.2	17401.4	17605.4	17883.3
55°	17553.2	17748.2	17861.5	17963.5	18131.7	18167.5	18263.1	18376.4	18466.9	18696.5	18932.1
57.5°	18622.6	18984.5	19160.4	19322.3	19549.2	19635.8	19795.1	19918.7	20035.9	20307.4	20592.9
60°	19281.5	19722.5	20080.6	20336.8	20621.0	20825.0	21065.9	21259.6	21534.9	21859.8	22285.6
62.5°	18757.6	19405.0	19880.5	20320.2	20706.4	21096.4	21441.9	21803.8	22221.8	22713.9	23374.1
65°	16671.1	17330.1	18144.5	18600.8	19111.9	19713.6	20238.6	20825.0	21394.7	22110.9	23087.2
67.5°	13421.0	14187.0	15102.1	15562.2	16149.9	16821.7	17410.4	18126.7	18792.1	19659.9	20867.0
70°	9673.8	10664.1	11434.0	11914.5	12600.3	13292.3	13860.8	14694.4	15245.0	16134.5	17382.4
72.5°	6125.5	6906.8	7850.0	8455.3	9064.6	9765.7	10346.9	11065.7	11579.3	12390.0	13520.5
75°	3293.5	3869.5	4698.0	5272.8	5925.4	6524.4	7205.0	7686.8	8066.7	8707.7	9625.3
77.5°	1543.5	1893.9	2313.3	2755.6	3197.8	3659.2	4107.9	4498.0	4661.0	5028.2	5569.9
80°	936.8	1050.2	1172.6	1309.0	1493.8	1642.9	1840.4	1983.2	1993.3	2109.4	2275.0
82.5°	625.8	667.9	704.8	739.2	786.3	823.3	865.4	915.2	935.6	962.3	1015.9
85°	427.0	447.4	455.0	476.7	471.6	484.4	501.0	517.5	526.3	525.1	549.4
87.5°	262.6	272.7	277.8	283.0	279.2	274.1	281.7	290.6	293.1	285.5	288.0
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):

	71°	72°	73°	74°	75°	85°	90°	95°	105°	115°	125°
0°	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5
2.5°	2336.2	2324.9	2313.3	2305.7	2303.2	2235.5	2206.2	2187.2	2146.3	2113.3	2086.5
5°	2577.1	2553.0	2533.8	2510.9	2498.1	2327.2	2264.8	2221.6	2150.2	2108.1	2069.9
7.5°	2964.5	2897.0	2857.6	2813.0	2774.8	2466.2	2363.0	2295.4	2196.0	2140.0	2096.6
10°	3404.3	3334.1	3271.7	3202.9	3143.1	2651.1	2500.7	2396.1	2264.8	2192.3	2134.9
12.5°	3895.1	3826.2	3747.2	3659.2	3582.8	2885.5	2676.6	2527.4	2347.7	2250.9	2170.6
15°	4474.9	4353.8	4258.2	4156.3	4067.0	3165.9	2881.8	2675.3	2435.7	2304.4	2197.3
17.5°	5014.1	4886.6	4756.6	4667.5	4564.2	3480.8	3088.3	2825.7	2508.2	2338.7	2202.5
20°	5540.4	5401.6	5289.4	5169.6	5061.2	3807.0	3308.7	2958.3	2555.5	2340.1	2170.6
22.5°	6004.5	5917.8	5792.8	5662.8	5553.2	4133.5	3515.2	3070.3	2573.4	2310.8	2114.5
25°	6532.0	6440.3	6287.3	6177.7	6055.5	4466.1	3717.8	3157.1	2563.1	2256.0	2027.8
27.5°	7095.4	6993.5	6836.7	6721.9	6574.2	4811.4	3903.9	3219.5	2524.9	2166.7	1911.9
30°	7683.1	7590.0	7435.7	7319.7	7170.6	5177.2	4111.7	3261.6	2448.4	2043.1	1776.8
32.5°	8314.0	8236.2	8083.2	7962.1	7802.8	5573.7	4305.4	3274.3	2332.4	1896.5	1633.9
35°	8913.0	8859.4	8730.6	8617.3	8451.6	5948.3	4510.7	3267.9	2194.7	1736.0	1504.0
37.5°	9587.3	9555.4	9491.6	9347.6	9144.9	6456.8	4756.6	3241.2	2026.5	1576.6	1404.6
40°	10306.1	10308.6	10239.8	10141.7	9953.0	7073.8	5049.8	3189.0	1843.1	1436.4	1314.1
42.5°	11066.9	11106.5	11073.3	11003.2	10822.2	7695.8	5400.3	3125.3	1664.6	1300.0	1224.8
45°	11938.7	11987.3	12038.1	11934.9	11759.1	8516.7	5861.7	3042.4	1472.1	1186.7	1163.7
47.5°	12944.3	13020.8	13066.7	13068.1	12892.1	9533.6	6611.0	2992.7	1301.4	1110.1	1134.4
50°	15066.6	15090.6	15199.1	15387.6	15252.6	11887.8	7920.0	2962.2	1185.4	1063.0	1112.7
52.5°	18124.2	18390.6	18577.8	18565.1	18381.6	13382.8	8641.4	2804.0	1116.6	1045.2	1102.5
55°	19369.4	19702.0	20048.7	20140.4	19997.8	14658.6	9323.4	2646.0	1083.4	1057.8	1106.4
57.5°	21028.9	21589.7	22065.1	22265.2	22058.7	16291.3	10220.6	2563.1	1073.1	1092.2	1130.5
60°	22967.4	23660.7	24285.4	24644.8	24644.8	18167.5	11151.1	2528.6	1059.1	1143.3	1171.3
62.5°	24212.6	25231.1	26174.3	26700.6	26685.3	19473.8	11564.1	2411.5	1027.3	1178.9	1227.4
65°	24217.8	25428.6	26630.6	27221.9	27252.5	19313.3	10882.2	2129.8	968.6	1184.1	1283.5
67.5°	22198.9	23490.0	24890.7	25552.3	25705.2	17778.7	9420.3	1751.2	873.1	1133.1	1303.9
70°	18748.6	20009.2	21439.3	22089.3	22360.8	15155.8	7587.4	1349.8	750.8	1021.0	1261.8
72.5°	14770.8	16007.1	17002.6	17478.0	17689.6	11584.5	5525.1	1019.7	615.6	860.3	1148.4
75°	10457.7	11385.6	11914.5	12020.3	12053.5	6983.2	3357.1	758.3	507.3	669.1	969.9
77.5°	5902.5	6300.2	6256.8	6303.9	5911.3	2695.6	1461.9	542.9	418.0	508.5	752.1
80°	2304.4	2375.7	2231.7	2187.2	2006.2	1003.0	645.0	378.5	333.9	385.0	526.3
82.5°	1015.9	1049.0	1018.4	1026.0	981.4	517.5	386.2	274.1	254.8	281.7	349.3
85°	559.6	569.7	567.2	583.8	559.6	206.5	183.6	168.3	178.5	191.2	224.3
87.5°	272.7	275.3	266.3	280.5	271.5	104.6	90.5	95.6	104.6	107.1	107.1
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):

	135°	145°	155°	165°	175°	180°
0°	2188.5	2188.5	2188.5	2188.5	2188.5	2188.5
2.5°	2067.3	2057.1	2058.3	2055.9	2050.8	2050.8
5°	2049.6	2039.3	2039.3	2036.7	2030.3	2031.6
7.5°	2067.3	2050.8	2044.5	2035.5	2026.5	2026.5
10°	2087.8	2058.3	2040.6	2025.3	2013.8	2013.8
12.5°	2103.0	2057.1	2027.8	2007.4	1995.9	1995.9
15°	2108.1	2048.2	2007.4	1983.2	1972.9	1971.7
17.5°	2091.6	2013.8	1964.1	1936.0	1923.4	1919.5
20°	2040.6	1951.4	1891.4	1859.6	1841.7	1835.3
22.5°	1964.1	1862.1	1791.9	1758.9	1736.0	1732.1
25°	1857.1	1747.5	1678.7	1646.8	1633.9	1630.2
27.5°	1732.1	1630.2	1571.6	1551.2	1539.7	1538.3
30°	1613.5	1526.8	1483.6	1468.3	1454.3	1451.8
32.5°	1502.8	1447.9	1431.3	1409.7	1376.6	1372.7
35°	1423.6	1418.6	1407.1	1358.6	1318.0	1306.5
37.5°	1375.2	1422.3	1363.7	1268.1	1238.9	1236.2
40°	1347.2	1382.9	1282.2	1249.1	1251.6	1249.1
42.5°	1283.5	1320.5	1284.8	1269.5	1279.6	1282.2
45°	1219.8	1260.5	1303.9	1293.6	1318.0	1318.0
47.5°	1184.1	1245.2	1302.6	1302.6	1338.3	1351.1
50°	1143.3	1232.5	1282.2	1300.0	1328.1	1318.0
52.5°	1140.7	1210.8	1252.9	1284.8	1297.5	1286.1
55°	1144.5	1192.9	1223.6	1259.2	1274.5	1275.9
57.5°	1149.7	1182.8	1203.2	1219.8	1265.6	1265.6
60°	1162.3	1173.8	1185.4	1194.2	1254.2	1255.4
62.5°	1182.8	1164.9	1162.3	1171.3	1247.7	1242.6
65°	1214.7	1152.2	1133.1	1141.9	1241.4	1226.1
67.5°	1257.9	1133.1	1096.1	1102.5	1236.2	1203.2
70°	1297.5	1102.5	1050.2	1043.9	1187.9	1129.3
72.5°	1301.4	1066.7	986.5	967.4	1032.4	976.3
75°	1237.5	1042.7	916.5	860.3	852.8	845.0
77.5°	1115.2	1028.6	834.9	746.9	731.6	736.7
80°	933.0	976.3	736.7	632.1	715.1	706.1
82.5°	697.2	861.7	625.8	559.6	558.2	493.3
85°	387.4	671.8	509.8	419.2	291.9	283.0
87.5°	108.3	373.4	356.8	237.1	161.9	168.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)