

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: P324141

Luminaire Tested: **GAN-SA7D-730-U-SLL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324141
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-27)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37052 lumens
Efficiency: N/A
Efficacy: 82.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

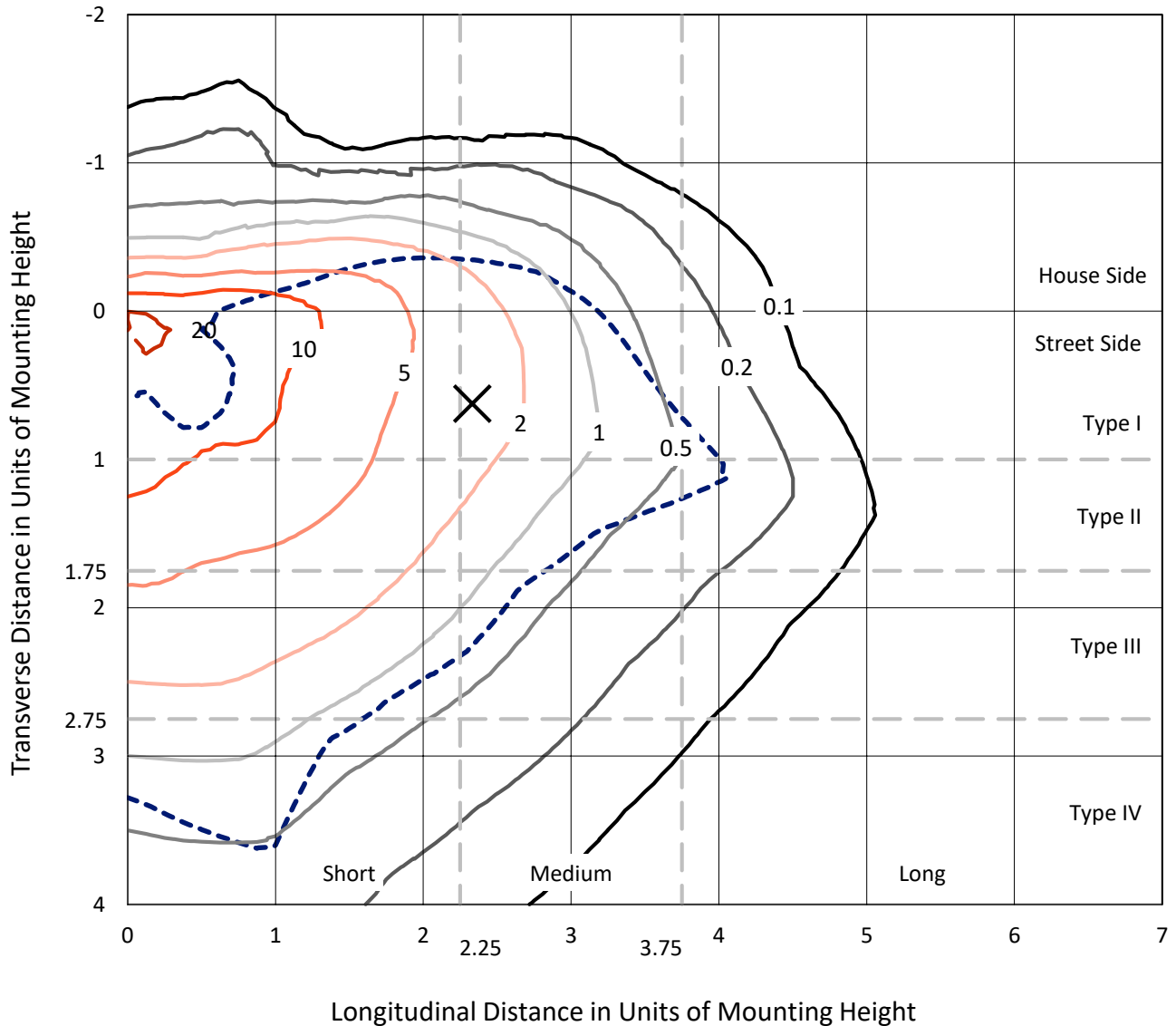
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

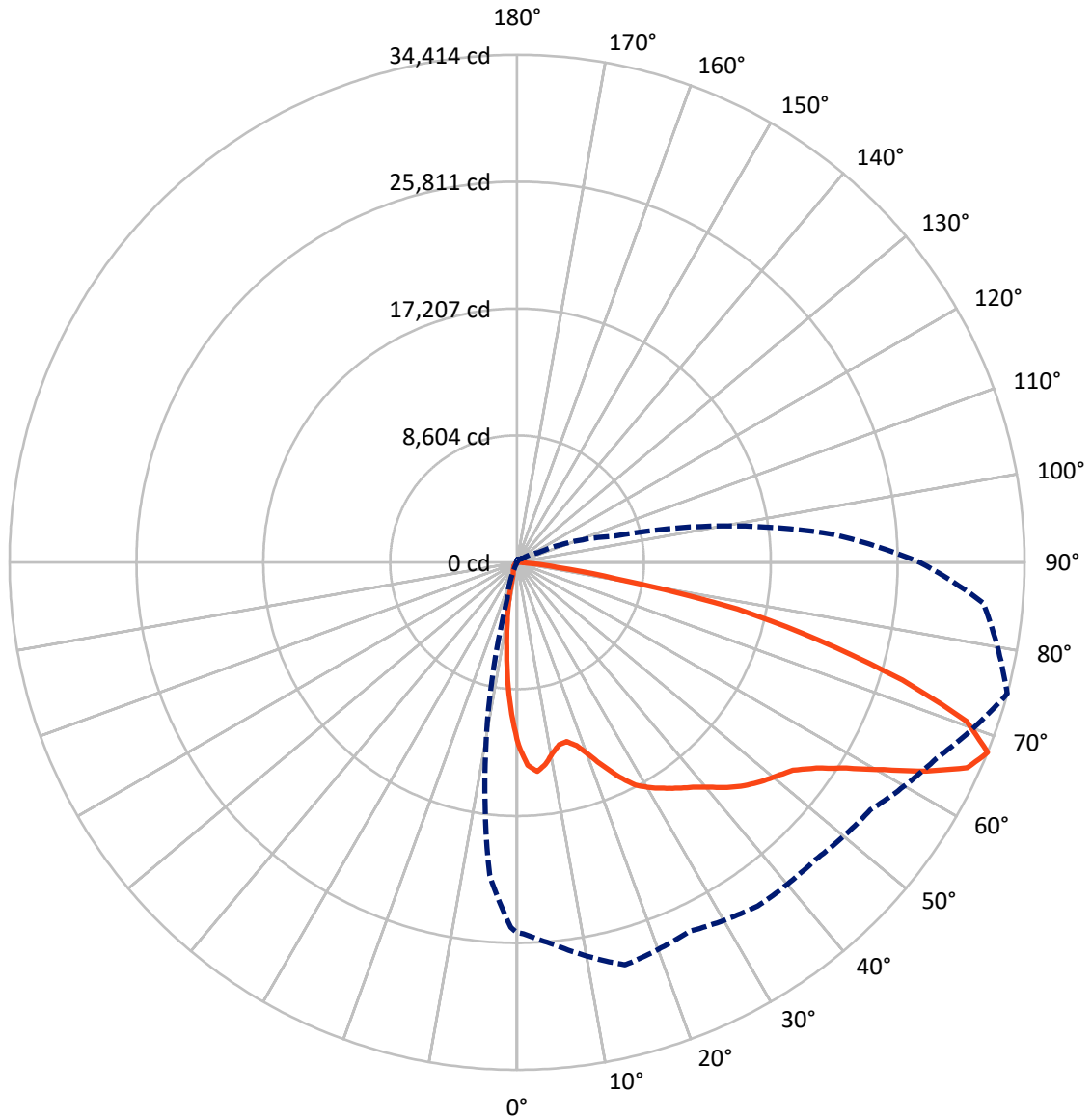
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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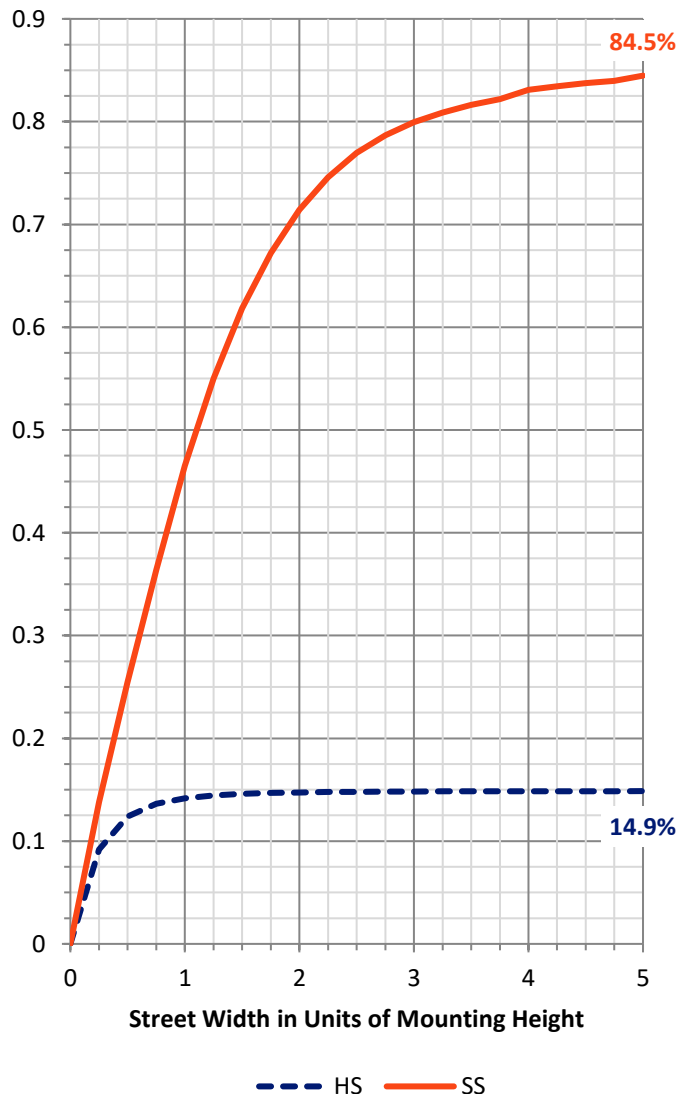
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5560.0	0.0	5560.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	31492.0	0.0	31492.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	37052.0	0.0	37052.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	942.9	2.5
10°-20°	1856.6	5.0
20°-30°	2626.5	7.1
30°-40°	3861.7	10.4
40°-50°	5550.6	15.0
50°-60°	7813.8	21.1
60°-70°	9125.8	24.6
70°-80°	4655.7	12.6
80°-90°	618.5	1.7
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°	37052.0	100.0
0°-180°	37052.0	100.0

Coefficient of Utilization

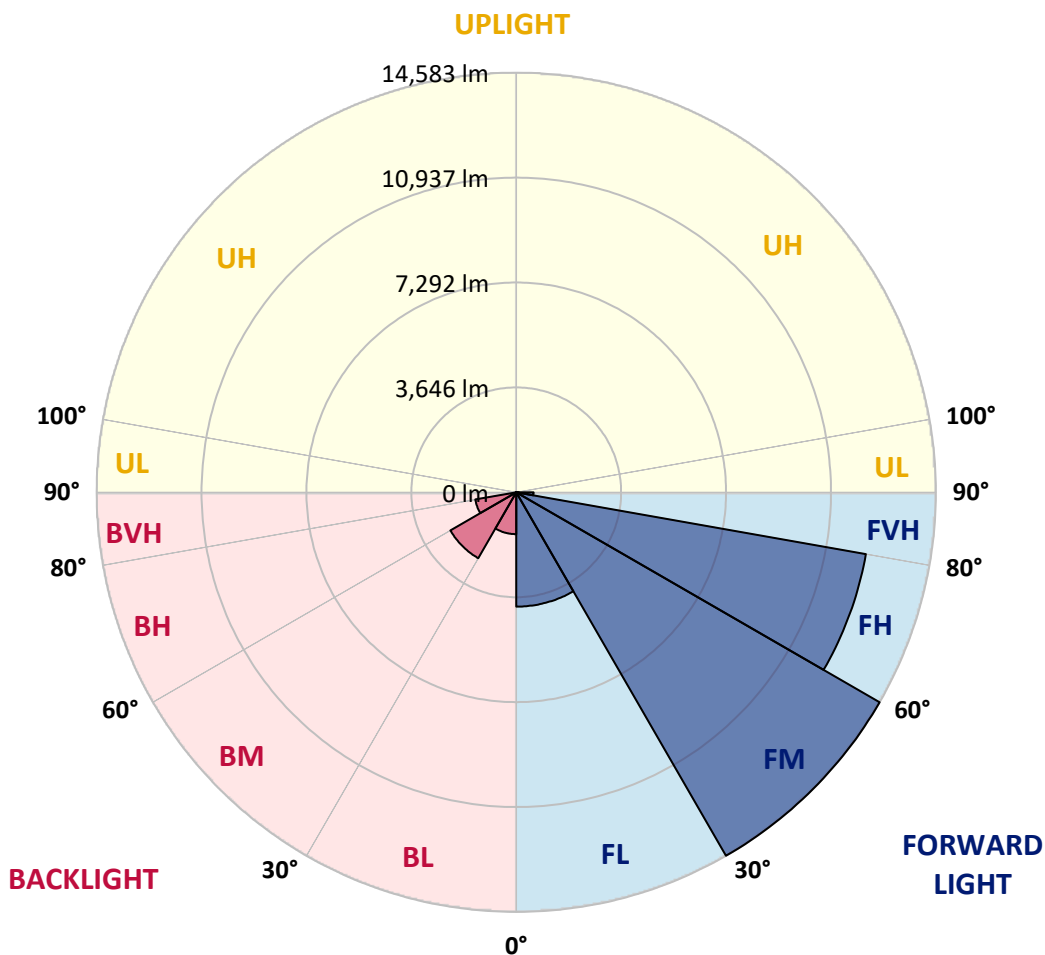


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3972.0	10.7			
FM (30°-60°)	14583.0	39.4			
FH (60°-80°)	12337.3	33.3			G5
FVH (80°-90°)	599.7	1.6			G4/750
BL (0°-30°)	1454.0	3.9	B3/2500		
BM (30°-60°)	2643.1	7.1	B3/5000		
BH (60°-80°)	1444.2	3.9	B3/2500		G3/2500
BVH (80°-90°)	18.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3
2.5°	13474.7	13495.7	13604.5	13857.3	14132.9	14153.9	14340.0	14148.7	14083.7	13774.8	13455.3
5°	13576.5	13657.2	14031.1	14773.5	15417.7	15624.8	15772.2	15396.6	15001.7	14246.9	13441.3
7.5°	12756.8	12891.9	13479.9	14873.5	16025.0	16534.0	16630.5	16042.5	15075.4	13832.7	12621.6
10°	11707.2	11861.6	12570.7	14283.8	15865.2	16737.6	16871.0	16100.4	14710.3	13162.2	11735.3
12.5°	10857.7	11038.4	11763.3	13620.3	15315.9	16281.2	16544.5	15905.6	14394.4	12686.6	11129.7
15°	10466.2	10673.4	11435.1	13192.1	14706.8	15466.8	15684.4	15408.9	14218.9	12611.1	10989.3
17.5°	10690.9	10915.6	11701.9	13228.9	14134.6	14459.3	14634.8	14747.2	14218.9	13065.7	11400.0
20°	11612.4	11854.6	12686.6	13602.8	13660.7	13539.6	13727.4	14122.3	14383.8	13929.3	12386.4
22.5°	12886.7	13171.0	14110.0	14243.4	13429.0	12970.9	12995.5	13615.1	14684.0	15024.5	13755.5
25°	14440.0	14787.5	15742.4	15198.3	13525.6	12632.2	12623.4	13197.3	14977.1	16121.5	15280.8
27.5°	15982.8	16365.5	17204.5	16363.7	13924.0	12570.7	12553.2	13071.0	15263.2	17097.4	16946.4
30°	17276.4	17648.5	18371.7	17208.0	14354.0	12714.7	12630.4	13206.1	15433.5	17731.0	18161.0
32.5°	18329.5	18627.9	19212.4	17788.9	14813.9	12993.7	12811.2	13567.7	15723.1	18266.3	19277.3
35°	19488.0	19802.1	20035.6	18341.8	15329.9	13395.7	13134.1	14141.6	16168.9	18810.5	20500.7
37.5°	20809.6	21122.1	21094.0	18847.3	15984.6	14060.9	13894.1	15050.8	16862.2	19349.3	21866.3
40°	22103.2	22422.7	22194.5	19400.2	16753.4	15157.9	15035.0	16416.4	17790.7	20039.1	23467.0
42.5°	23314.3	23660.1	23172.1	19923.3	17669.6	16541.0	16751.6	18175.1	18952.6	20888.6	24846.6
45°	24290.2	24643.0	23991.8	20432.3	18634.9	18219.0	18852.6	20123.3	20349.8	21606.5	25778.6
47.5°	24999.3	25332.8	24560.5	20941.3	19870.6	20270.8	21374.8	22166.4	21611.8	22229.6	26440.3
50°	25452.1	25711.9	24727.2	21578.4	21492.4	22664.9	24002.3	24388.5	22800.0	22791.2	27244.2
52.5°	25740.0	25857.6	24850.1	22243.6	23184.4	25271.3	26575.5	26696.6	24023.4	23409.1	28327.1
55°	26731.7	26826.4	25720.7	23049.3	24583.3	27554.9	28902.8	28790.5	25408.2	24618.4	29604.9
57.5°	28423.7	28523.7	27519.7	24207.7	25715.4	28966.0	30589.6	30791.4	27031.8	26317.4	30974.0
60°	29273.2	29459.2	29101.2	25675.0	26812.4	29868.2	31739.2	32383.4	29060.8	28557.1	32300.9
62.5°	28502.7	28773.0	29292.5	27302.1	27902.4	30364.9	32097.3	32953.8	31139.0	31167.1	33118.8
65°	26965.1	27181.0	28062.1	28193.7	28534.3	30303.5	31212.7	32157.0	32411.5	33564.7	33075.0
67.5°	25108.1	25188.8	25936.6	28264.0	27618.0	28457.0	28555.3	29253.9	31405.8	34414.2	31746.3
70°	22434.9	22478.8	23131.8	25913.7	23733.8	23918.1	23772.4	23914.6	27000.2	32344.8	28392.1
72.5°	18055.7	18166.3	19094.8	21520.5	17290.5	16758.6	17903.0	17839.8	20793.8	27326.7	21086.9
75°	13293.9	13485.2	14887.6	17334.3	12135.4	10977.0	11812.5	12035.4	14782.3	21137.8	13186.8
77.5°	9307.8	9450.0	10808.5	12742.7	8783.0	7849.2	7547.4	7812.4	9757.1	15291.3	6643.4
80°	5362.1	5414.8	6281.9	7357.8	5918.5	6771.6	6134.4	6317.0	5846.6	6803.1	2857.5
82.5°	3508.6	3517.4	3856.2	4379.2	3685.9	4282.7	3169.9	4052.8	3596.4	2732.8	930.3
85°	1895.6	1906.1	2236.1	3108.5	2086.9	1179.5	693.3	1423.5	2223.8	626.6	254.5
87.5°	208.9	191.3	674.0	1130.3	579.2	107.1	36.9	159.7	356.3	40.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3
2.5°	13292.1	13146.4	12783.1	12398.7	12089.8	11800.2	11508.8	11152.5	10877.0	10820.8	10729.5
5°	13007.8	12546.2	11784.4	11019.1	10403.1	9625.5	9132.3	8747.9	8372.3	8349.5	8274.0
7.5°	12014.3	11407.0	10334.6	9276.2	8409.2	7668.5	6920.7	6420.5	6027.3	5888.7	5806.2
10°	11059.5	10376.7	9037.5	7829.9	7055.9	6401.2	5874.6	5351.6	4877.7	4551.2	4403.8
12.5°	10392.5	9637.8	8161.7	7120.8	6566.2	5944.9	5302.5	4649.5	4103.7	3710.5	3470.0
15°	10134.5	9328.9	7868.6	6840.0	6155.5	5369.2	4547.7	3801.8	3196.2	2839.9	2624.0
17.5°	10441.7	9504.4	7845.7	6497.7	5541.2	4563.5	3656.1	2775.0	2204.5	1934.2	1795.6
20°	11221.0	10062.6	7837.0	6078.3	4811.0	3608.7	2476.6	1825.4	1479.6	1328.7	1263.7
22.5°	12323.2	10775.2	7907.2	5664.0	4051.0	2578.4	1709.6	1341.0	1163.7	1083.0	1046.1
25°	13741.4	11775.6	8105.5	5288.4	3336.6	1923.7	1332.2	1123.3	998.7	935.5	909.2
27.5°	15252.7	12927.0	8414.4	4961.9	2755.7	1534.0	1140.9	961.8	872.3	828.5	803.9
30°	16498.9	14261.0	8726.8	4598.6	2334.4	1337.5	1044.3	877.6	774.0	746.0	723.1
32.5°	17588.8	15270.2	8948.0	4270.4	2058.8	1188.3	944.3	784.6	714.4	660.0	635.4
35°	18717.4	16111.0	8941.0	4040.5	1869.3	1075.9	860.0	702.1	617.8	554.6	535.3
37.5°	19939.0	17060.5	8788.3	3843.9	1786.8	986.4	812.7	658.2	573.9	510.8	486.2
40°	21369.5	18057.5	8632.1	3659.6	1764.0	914.5	779.3	623.1	533.6	472.1	447.6
42.5°	22763.2	18956.1	8495.2	3522.7	1665.7	912.7	749.5	596.8	502.0	442.3	414.2
45°	23877.7	19793.4	8468.8	3440.2	1562.1	944.3	733.7	579.2	477.4	417.7	391.4
47.5°	24804.5	20702.6	8637.3	3382.3	1463.8	861.8	772.3	566.9	454.6	396.7	366.8
50°	25906.7	21818.9	9034.0	3287.5	1360.3	775.8	884.6	570.4	435.3	375.6	344.0
52.5°	27444.3	23363.4	9616.7	3127.8	1218.1	696.8	870.6	573.9	414.2	352.8	321.2
55°	29167.9	25292.4	10243.3	2862.7	1019.8	593.3	746.0	549.4	373.9	328.2	298.4
57.5°	30979.2	27042.3	10615.4	2546.8	810.9	512.5	596.8	500.2	330.0	294.9	275.6
60°	31263.6	27707.6	10445.2	2158.9	644.2	445.8	442.3	509.0	294.9	259.8	245.7
62.5°	30556.2	26872.1	9622.0	1813.1	538.8	391.4	363.3	444.1	266.8	231.7	217.6
65°	29196.0	24613.1	8288.0	1634.1	500.2	335.2	301.9	312.4	233.4	201.8	189.6
67.5°	27303.9	21597.7	6804.9	1532.3	495.0	287.9	258.0	237.0	201.8	175.5	165.0
70°	23435.4	17992.5	5428.8	1476.1	480.9	242.2	217.6	193.1	168.5	149.2	140.4
72.5°	17248.3	12749.8	4223.0	1414.7	484.4	193.1	189.6	159.7	135.2	115.8	112.3
75°	9966.0	7284.1	2769.7	1146.1	461.6	149.2	158.0	112.3	94.8	80.7	80.7
77.5°	5311.2	4442.4	1054.9	477.4	168.5	94.8	89.5	66.7	59.7	49.1	47.4
80°	2315.1	1955.3	317.7	133.4	93.0	50.9	33.3	29.8	26.3	21.1	19.3
82.5°	819.7	707.3	103.6	64.9	40.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	186.1	133.4	0.0	15.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3
2.5°	10543.5	10504.9	10276.7	10285.5	10325.8	10383.8	10246.8	10310.0	10480.3	10643.5	10705.0
5°	8152.9	8161.7	8023.0	8109.0	8186.2	8238.9	8017.7	8021.3	8156.4	8340.7	8437.2
7.5°	5744.8	5730.7	5737.7	5943.1	6088.8	5983.5	6066.0	5779.9	5797.4	5929.1	5830.8
10°	4270.4	4077.3	3968.5	4123.0	4282.7	4224.8	4082.6	3989.6	4054.5	4200.2	4189.7
12.5°	3355.9	3078.6	2915.4	2804.8	2936.4	2827.6	2824.1	2743.4	2655.6	2671.4	2904.9
15°	2524.0	2322.1	2129.1	1951.8	1948.3	1911.4	1723.6	1513.0	1495.4	1506.0	1627.1
17.5°	1735.9	1667.4	1588.5	1435.8	1395.4	1240.9	1058.4	974.1	932.0	951.3	991.7
20°	1219.9	1193.5	1202.3	1119.8	1061.9	914.5	807.4	774.0	767.0	786.3	805.6
22.5°	1011.0	963.6	958.3	921.5	863.6	756.5	698.6	679.3	670.5	688.0	702.1
25°	884.6	837.2	817.9	795.1	733.7	660.0	624.9	607.3	598.5	609.1	617.8
27.5°	779.3	735.4	717.9	702.1	642.4	589.7	561.7	545.9	538.8	542.4	551.1
30°	700.3	661.7	638.9	619.6	568.7	531.8	507.3	491.5	484.4	484.4	493.2
32.5°	617.8	596.8	575.7	551.1	503.7	479.2	454.6	437.0	430.0	431.8	438.8
35°	514.3	507.3	512.5	489.7	449.3	428.3	403.7	384.4	379.1	380.9	387.9
37.5°	456.4	424.8	444.1	431.8	409.0	380.9	349.3	331.7	323.0	328.2	331.7
40°	419.5	380.9	366.8	379.1	375.6	330.0	301.9	284.3	277.3	279.1	282.6
42.5°	387.9	342.3	310.7	308.9	330.0	287.9	258.0	242.2	233.4	233.4	237.0
45°	358.1	308.9	270.3	240.5	277.3	244.0	215.9	201.8	191.3	191.3	193.1
47.5°	335.2	280.8	235.2	196.6	208.9	200.1	177.3	163.2	152.7	152.7	154.5
50°	314.2	252.7	203.6	165.0	156.2	165.0	143.9	128.1	121.1	119.4	122.9
52.5°	291.4	224.7	173.8	140.4	122.9	124.6	112.3	101.8	93.0	93.0	96.5
55°	268.5	201.8	150.9	119.4	101.8	93.0	89.5	82.5	75.5	75.5	79.0
57.5°	245.7	177.3	128.1	98.3	80.7	73.7	73.7	68.5	63.2	63.2	66.7
60°	224.7	152.7	105.3	80.7	63.2	61.4	63.2	57.9	54.4	54.4	57.9
62.5°	200.1	129.9	86.0	66.7	50.9	49.1	54.4	50.9	47.4	47.4	50.9
65°	170.3	110.6	68.5	50.9	38.6	38.6	45.6	42.1	38.6	38.6	42.1
67.5°	143.9	93.0	52.7	36.9	28.1	29.8	38.6	35.1	33.3	33.3	36.9
70°	119.4	72.0	36.9	22.8	15.8	22.8	29.8	29.8	29.8	29.8	33.3
72.5°	89.5	49.1	21.1	8.8	7.0	15.8	24.6	28.1	26.3	26.3	31.6
75°	57.9	28.1	7.0	0.0	0.0	8.8	19.3	22.8	22.8	21.1	26.3
77.5°	33.3	8.8	0.0	0.0	0.0	0.0	12.3	10.5	8.8	7.0	12.3
80°	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3	12430.3
2.5°	10952.4	11159.5	11450.9	11759.8	12235.5	12612.9	12983.2	13300.9	13423.8	13474.7
5°	8668.9	8972.6	9399.1	9946.7	10805.0	11577.3	12360.1	13148.2	13490.5	13576.5
7.5°	6220.4	6608.3	7150.7	7837.0	8842.7	9843.2	10936.6	12093.3	12623.4	12756.8
10°	4603.9	5077.8	5699.1	6422.3	7382.4	8410.9	9602.7	10924.4	11529.9	11707.2
12.5°	3266.4	3907.1	4739.0	5618.4	6450.4	7368.3	8574.1	10031.0	10666.3	10857.7
15°	1918.4	2538.0	3522.7	4700.4	5765.8	6696.1	7921.2	9572.8	10273.2	10466.2
17.5°	1100.5	1409.4	2153.6	3466.5	4912.8	6201.1	7715.9	9686.9	10511.9	10690.9
20°	840.7	939.0	1240.9	2232.6	3915.8	5714.9	7715.9	10332.9	11349.1	11612.4
22.5°	735.4	807.4	930.3	1332.2	2882.0	5193.6	7805.4	11266.6	12595.3	12886.7
25°	652.9	717.9	823.2	1002.2	1965.8	4574.0	8017.7	12412.8	14062.6	14440.0
27.5°	584.5	645.9	740.7	877.6	1344.5	3826.3	8303.8	13757.2	15680.9	15982.8
30°	523.0	581.0	667.0	763.5	1037.3	2978.6	8547.8	15024.5	16951.7	17276.4
32.5°	465.1	517.8	595.0	667.0	849.5	2202.8	8574.1	16028.5	18006.6	18329.5
35°	410.7	458.1	528.3	584.5	703.8	1739.4	8165.2	16899.0	19061.5	19488.0
37.5°	358.1	403.7	465.1	507.3	619.6	1418.2	7540.3	17869.7	20414.7	20809.6
40°	308.9	349.3	412.5	440.6	586.2	1090.0	6861.1	18887.7	21741.6	22103.2
42.5°	263.3	301.9	363.3	417.7	514.3	814.4	6127.4	19842.5	22935.2	23314.3
45°	219.4	259.8	321.2	442.3	426.5	609.1	5342.8	20476.1	23877.7	24290.2
47.5°	177.3	222.9	307.2	421.2	340.5	447.6	4721.5	21076.4	24592.1	24999.3
50°	142.2	187.8	345.8	375.6	279.1	342.3	4461.7	21613.5	25060.7	25452.1
52.5°	115.8	158.0	326.5	287.9	233.4	282.6	4602.1	22484.1	25494.3	25740.0
55°	96.5	124.6	196.6	200.1	198.3	240.5	4775.9	23733.8	26615.8	26731.7
57.5°	84.2	100.0	136.9	154.5	166.7	214.1	4779.4	25527.6	28351.7	28423.7
60°	72.0	87.8	114.1	124.6	143.9	191.3	4605.6	26154.2	29034.5	29273.2
62.5°	63.2	77.2	94.8	103.6	121.1	172.0	4198.4	25246.8	28097.2	28502.7
65°	56.2	70.2	79.0	87.8	107.1	154.5	3527.9	23431.9	26542.1	26965.1
67.5°	49.1	61.4	70.2	79.0	96.5	136.9	2597.7	21323.9	24757.1	25108.1
70°	43.9	54.4	63.2	70.2	84.2	115.8	1576.2	18094.3	22289.3	22434.9
72.5°	42.1	49.1	57.9	63.2	73.7	101.8	798.6	13297.4	17818.8	18055.7
75°	36.9	43.9	52.7	56.2	64.9	87.8	324.7	8733.9	12913.0	13293.9
77.5°	29.8	40.4	47.4	50.9	56.2	72.0	165.0	5581.5	9062.1	9307.8
80°	10.5	29.8	40.4	42.1	47.4	52.7	108.8	3055.8	5256.8	5362.1
82.5°	0.0	19.3	31.6	29.8	33.3	40.4	70.2	1453.3	3470.0	3508.6
85°	0.0	8.8	24.6	19.3	14.0	28.1	24.6	317.7	1820.1	1895.6
87.5°	0.0	0.0	1.8	8.8	7.0	10.5	3.5	1.8	165.0	208.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)