

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: P534270

Luminaire Tested: **GLAN-SA9D-730-U-SLR-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534270
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-26)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-730-U-SLR-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47567 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 552
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

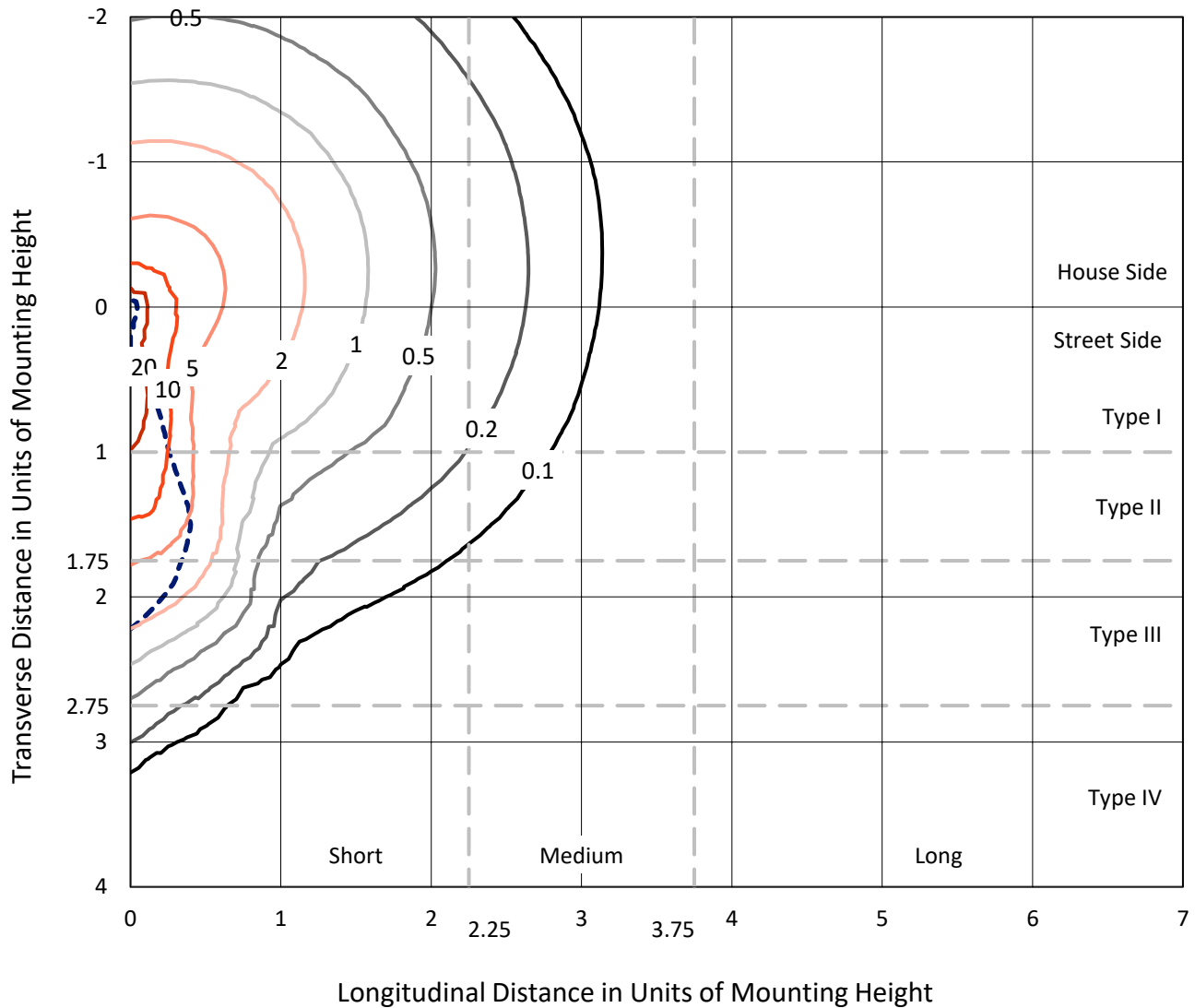


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

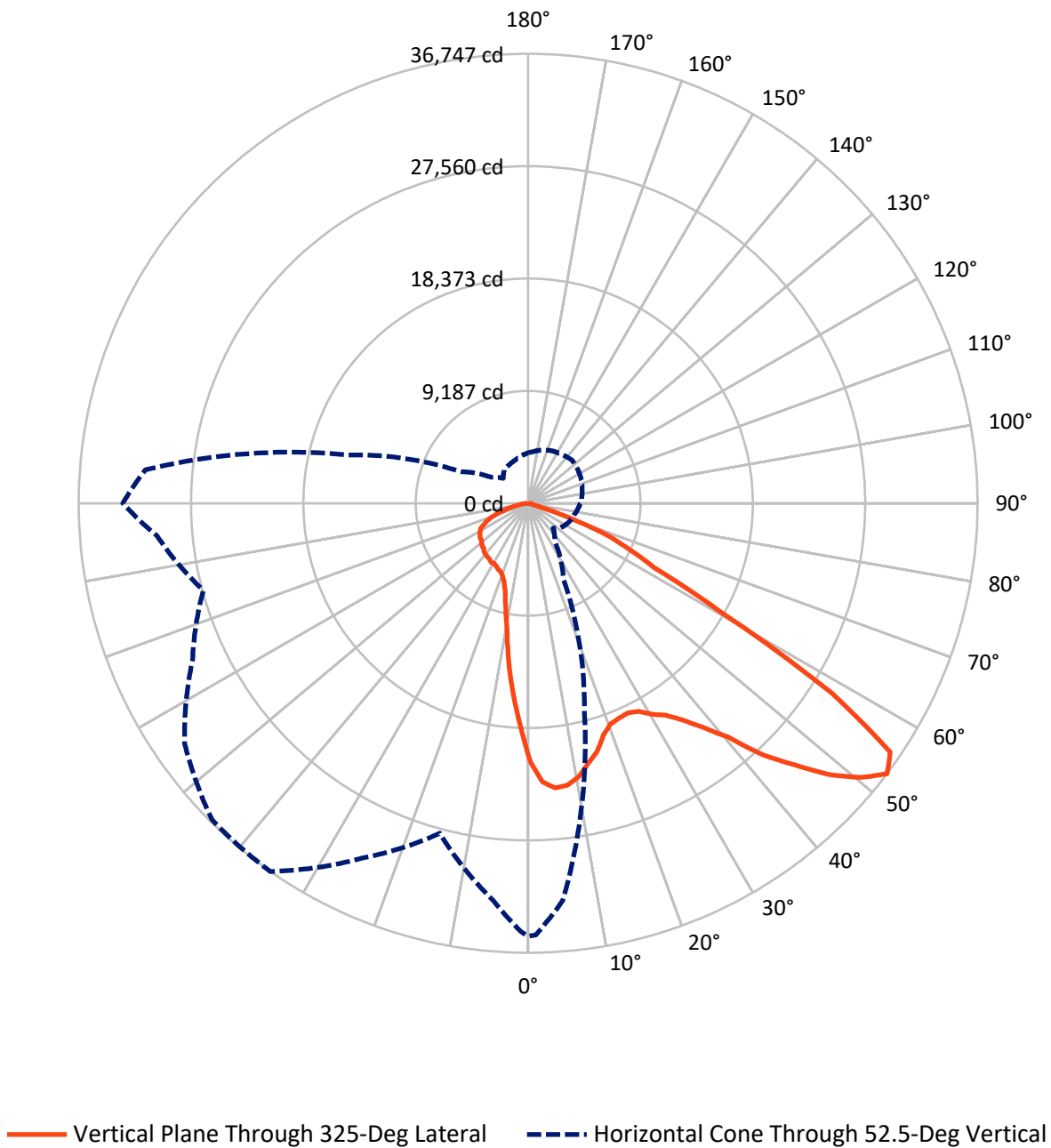


Based on 25 foot mounting height. Maximum calculated value = 33.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14339.5	0.0	14339.5
	% Fixture	30.1	0.0	30.1
Street Side	Lumens	33227.5	0.0	33227.5
	% Fixture	69.9	0.0	69.9
Total	Lumens	47567.0	0.0	47567.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1610.6	3.4
10°-20°	3491.4	7.3
20°-30°	5275.3	11.1
30°-40°	7623.0	16.0
40°-50°	10144.8	21.3
50°-60°	11347.2	23.9
60°-70°	6395.2	13.4
70°-80°	1425.6	3.0
80°-90°	253.9	0.5
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°	47567.0	100.0
0°-180°	47567.0	100.0

Coefficient of Utilization



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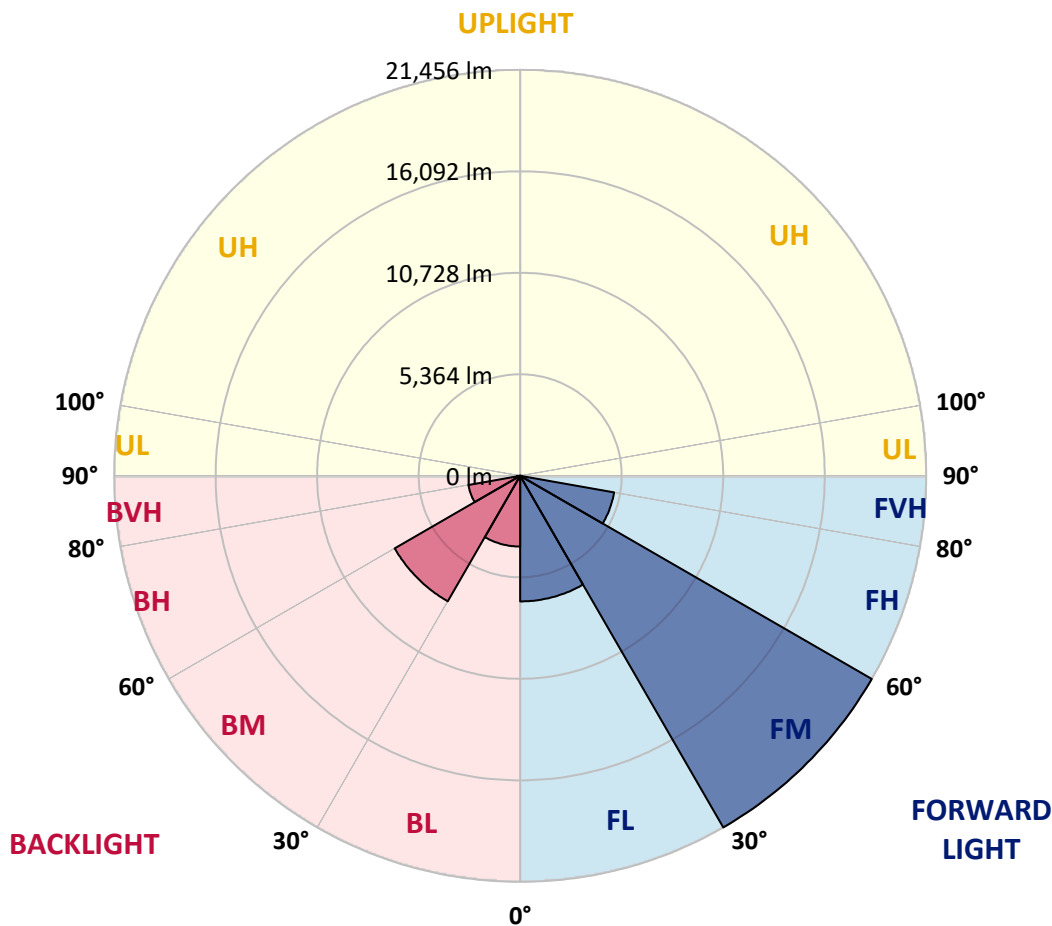
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6637.9	14.0			
FM	(30°-60°)	21456.4	45.1			
FH	(60°-80°)	5041.4	10.6			G3/7500
FVH	(80°-90°)	91.9	0.2			G1/100
BL	(0°-30°)	3739.4	7.9	B4/5000		
BM	(30°-60°)	7658.7	16.1	B4/8500		
BH	(60°-80°)	2779.4	5.8	B4/5000		G4/5000
BVH	(80°-90°)	161.9	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5
2.5°	21462.1	21806.9	21434.6	20772.7	20303.9	19876.4	19428.3	19338.7	18752.7	18649.2	18221.8
5°	20241.8	20166.0	19711.0	18842.3	17884.0	17015.3	16374.1	15753.6	15333.1	14843.6	14809.1
7.5°	18759.6	18318.3	18056.3	16739.5	15553.7	14188.6	13602.6	12658.0	12361.6	11920.3	11692.8
10°	17435.8	17111.8	16498.2	15181.4	13526.7	12623.6	11996.2	11486.0	11141.3	10686.3	10114.0
12.5°	16780.9	16649.9	15960.4	13919.7	12692.5	11727.3	11286.1	10789.7	10203.7	9472.8	9190.2
15°	16898.1	16456.8	15932.9	13678.4	11982.4	11051.7	10348.4	9727.9	8976.5	8280.1	7873.4
17.5°	17773.7	17435.8	16387.9	13830.1	11713.5	10369.1	9093.7	8176.7	7501.1	6873.7	6591.0
20°	19497.2	19007.7	17828.8	14023.1	11134.4	9417.7	7956.1	6825.4	6101.5	5770.6	5674.1
22.5°	21407.0	21117.4	19235.3	14457.5	10672.5	8535.2	6749.6	5618.9	5350.0	5260.4	5439.6
25°	23730.4	22978.9	21420.8	15167.6	10314.0	7783.7	5729.2	5101.8	4963.9	5053.6	5260.4
27.5°	25495.3	25295.4	22951.3	15836.3	9824.5	6880.6	5157.0	4743.3	4784.7	4874.3	5067.4
30°	27591.2	26577.8	24433.6	16298.3	9383.2	6260.1	4757.1	4646.8	4688.2	4839.8	4936.4
32.5°	28852.9	28473.7	25364.3	16994.6	8873.0	5722.3	4446.9	4343.4	4405.5	4633.0	4860.5
35°	30459.3	29707.8	26515.7	17173.8	8514.5	5508.6	4226.2	4150.4	4295.2	4453.8	4708.8
37.5°	32334.5	31817.5	28108.3	17049.7	8321.5	5288.0	4040.1	4005.6	4109.0	4329.7	4626.1
40°	33444.5	33286.0	28942.5	17125.6	8018.1	5094.9	3826.4	3867.7	4081.5	4253.8	4543.4
42.5°	34513.2	33479.0	30176.6	17098.0	7825.1	4832.9	3847.1	3798.8	3964.3	4164.2	4440.0
45°	34747.6	33720.3	30466.2	16905.0	7590.7	4577.9	3688.5	3709.2	3909.1	4157.3	4336.6
47.5°	34595.9	33837.5	31003.9	16849.8	7370.1	4398.6	3454.1	3702.3	3819.5	4019.4	4274.5
50°	34492.5	34451.1	31459.0	17111.8	7073.6	4115.9	3171.4	3612.6	3729.8	3929.8	4205.6
52.5°	35402.5	35312.9	32596.5	17801.2	6839.2	3812.6	2881.8	3385.1	3667.8	3860.8	4129.7
55°	35954.1	35561.1	34547.6	18649.2	6446.2	3412.7	2681.9	3102.5	3516.1	3688.5	3964.3
57.5°	32341.4	32072.6	31252.1	17408.3	5784.4	2888.7	2433.7	2812.9	3309.3	3578.2	3860.8
60°	26908.7	26488.1	24385.3	14795.3	4267.6	2247.6	2282.0	2585.4	3254.1	3357.6	3688.5
62.5°	25371.2	24330.2	21469.0	11906.6	3274.8	1930.4	2047.6	2378.6	2964.6	3136.9	3467.9
65°	20131.5	19359.4	15360.6	8597.3	2192.4	1675.3	1868.4	2144.1	2557.8	2895.6	3199.0
67.5°	12602.9	11865.2	8197.4	4067.7	1530.5	1434.0	1668.4	1958.0	2295.8	2599.2	2937.0
70°	6584.1	5777.5	3785.0	1468.5	1054.8	1172.0	1392.7	1668.4	1999.4	2247.6	2509.5
72.5°	2454.4	1992.5	1234.1	634.3	730.8	896.3	1130.7	1330.6	1565.0	1868.4	2013.2
75°	379.2	324.0	317.1	386.1	496.4	648.1	806.6	1006.6	1213.4	1406.4	1503.0
77.5°	179.3	172.4	193.0	255.1	330.9	461.9	586.0	779.1	944.5	1068.6	1123.8
80°	117.2	110.3	124.1	172.4	248.2	344.7	468.8	599.8	751.5	854.9	841.1
82.5°	68.9	75.8	75.8	117.2	172.4	248.2	337.8	455.0	558.4	648.1	592.9
85°	41.4	34.5	34.5	68.9	117.2	199.9	282.7	193.0	199.9	199.9	227.5
87.5°	13.8	13.8	13.8	6.9	13.8	13.8	20.7	34.5	41.4	48.3	62.0
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°	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5
2.5°	18208.0	18421.7	18345.9	18077.0	18283.8	18318.3	18180.4	18656.1	18745.8	18601.0	18642.3
5°	14760.8	14816.0	14940.1	15202.1	15388.2	15608.8	15608.8	15622.6	15436.5	15905.3	15767.4
7.5°	11499.8	11534.3	11679.0	12237.5	12396.1	12816.6	12995.9	12871.8	12499.5	12340.9	12471.9
10°	9927.9	9727.9	9679.7	9748.6	10107.1	10286.4	10438.1	10396.7	10334.6	10210.5	10072.7
12.5°	8879.9	8735.2	8617.9	8452.5	8473.2	8645.5	8762.7	8666.2	8693.8	8721.4	8762.7
15°	7742.4	7638.9	7576.9	7328.7	7301.1	7418.3	7459.7	7514.9	7618.3	7625.2	7576.9
17.5°	6535.9	6446.2	6584.1	6722.0	6625.5	6632.4	6708.2	6756.5	6728.9	6604.8	6542.7
20°	5708.5	5805.1	5942.9	6073.9	6177.3	6239.4	6267.0	6191.1	6101.5	5846.4	5839.5
22.5°	5467.2	5591.3	5708.5	5908.5	6005.0	6163.6	6018.8	5846.4	5722.3	5598.2	5453.4
25°	5288.0	5391.4	5625.8	5701.6	5887.8	6018.8	5915.4	5743.0	5529.3	5350.0	5239.7
27.5°	5157.0	5274.2	5425.9	5632.7	5777.5	5853.3	5749.9	5681.0	5460.3	5246.6	5088.0
30°	5074.2	5198.3	5474.1	5646.5	5770.6	5832.6	5653.4	5570.6	5412.1	5232.8	5094.9
32.5°	5019.1	5129.4	5363.8	5584.4	5667.2	5667.2	5694.7	5598.2	5377.6	5074.2	4957.0
35°	4839.8	4991.5	5184.6	5439.6	5591.3	5681.0	5543.1	5432.8	5288.0	4977.7	4764.0
37.5°	4736.4	4839.8	5088.0	5329.3	5460.3	5556.9	5501.7	5308.7	5115.6	4860.5	4688.2
40°	4626.1	4791.6	5012.2	5239.7	5384.5	5481.0	5439.6	5212.1	4977.7	4736.4	4619.2
42.5°	4550.3	4660.6	4888.1	5143.2	5315.6	5501.7	5377.6	5094.9	4929.5	4598.5	4467.5
45°	4488.2	4667.5	4908.8	5012.2	5191.5	5384.5	5163.9	4991.5	4798.5	4557.2	4446.9
47.5°	4412.4	4577.9	4736.4	5012.2	5094.9	5184.6	5143.2	4867.4	4702.0	4440.0	4364.1
50°	4384.8	4446.9	4736.4	4888.1	5005.3	5094.9	4984.6	4777.8	4619.2	4350.3	4184.9
52.5°	4274.5	4391.7	4577.9	4777.8	4922.6	5032.9	4853.6	4722.6	4508.9	4226.2	4122.8
55°	4136.6	4205.6	4536.5	4743.3	4819.2	4895.0	4826.1	4612.3	4391.7	4102.1	3998.7
57.5°	3957.4	4115.9	4384.8	4674.4	4770.9	4812.3	4702.0	4529.6	4253.8	3998.7	3833.3
60°	3771.2	3936.7	4233.1	4467.5	4564.1	4715.7	4550.3	4446.9	4129.7	3847.1	3667.8
62.5°	3585.1	3771.2	3991.8	4288.3	4371.0	4433.1	4391.7	4246.9	3991.8	3674.7	3454.1
65°	3364.4	3502.3	3778.1	3929.8	3984.9	4129.7	3984.9	3929.8	3702.3	3398.9	3212.8
67.5°	3033.5	3150.7	3392.0	3536.8	3578.2	3640.2	3633.3	3571.3	3316.2	3109.4	2943.9
70°	2654.3	2757.7	2909.4	3081.8	3102.5	3178.3	3109.4	3095.6	2930.1	2647.4	2557.8
72.5°	2130.4	2226.9	2426.8	2502.7	2509.5	2537.1	2502.7	2454.4	2413.0	2116.6	2026.9
75°	1634.0	1689.1	1785.6	1854.6	1854.6	1889.1	1868.4	1820.1	1709.8	1523.7	1434.0
77.5°	1137.6	1192.7	1316.8	1358.2	1351.3	1365.1	1303.0	1254.8	1089.3	992.8	916.9
80°	827.3	861.8	923.8	951.4	958.3	979.0	903.2	861.8	765.3	655.0	620.5
82.5°	599.8	620.5	627.4	661.9	661.9	627.4	606.7	565.3	496.4	427.5	399.9
85°	248.2	255.1	262.0	303.4	310.2	372.3	344.7	324.0	282.7	241.3	220.6
87.5°	62.0	68.9	89.6	75.8	89.6	89.6	96.5	110.3	110.3	89.6	89.6
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°	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5
2.5°	18800.9	18856.1	19559.3	19648.9	19993.6	20345.3	21055.4	21565.6	21979.2	22248.1	22323.9
5°	15912.2	16263.8	16587.8	17111.8	17587.5	18263.2	19042.2	20007.4	21220.8	21841.3	22089.5
7.5°	12458.1	12871.8	13340.6	13850.8	14547.1	15760.5	16801.6	17918.4	19469.7	20110.8	21082.9
10°	10169.2	10631.1	11251.6	11644.6	12485.7	13643.9	14857.3	16146.6	17628.9	18552.7	19676.5
12.5°	8990.2	9369.4	9941.7	10769.0	11396.4	12147.9	13051.0	14678.1	16801.6	17677.1	18449.3
15°	7687.2	8107.8	8769.6	9686.6	10438.1	11334.3	12347.8	14119.6	16381.0	17732.3	18387.3
17.5°	6611.7	6915.0	7611.4	8404.2	9266.0	10245.0	11699.7	14092.1	16822.2	18552.7	19621.3
20°	5867.1	5908.5	6287.7	6963.3	8135.3	9410.8	11299.9	13954.2	18235.6	19966.1	21317.4
22.5°	5398.3	5356.9	5363.8	5936.0	6756.5	8590.4	10672.5	14423.0	19842.0	22213.6	23123.7
25°	5163.9	5053.6	4984.6	5108.7	5853.3	7618.3	10196.8	15043.5	21572.4	24068.2	25185.1
27.5°	5039.8	4846.7	4708.8	4729.5	5274.2	7128.8	9900.3	15312.4	23289.1	26653.6	27046.6
30°	4991.5	4750.2	4550.3	4481.3	4839.8	6446.2	9266.0	15774.3	24826.6	28073.8	28411.7
32.5°	4819.2	4522.7	4329.7	4267.6	4412.4	5846.4	8811.0	16105.2	26184.8	29618.2	29501.0
35°	4619.2	4371.0	4129.7	4012.5	4115.9	5460.3	8445.6	15946.7	27784.3	30817.8	30755.7
37.5°	4598.5	4274.5	4074.6	3881.5	3874.6	4984.6	7949.2	16098.3	28804.6	32968.8	32120.8
40°	4419.3	4212.5	3950.5	3791.9	3702.3	4743.3	7466.6	15739.8	30300.7	33837.5	33003.3
42.5°	4426.2	4115.9	3888.4	3702.3	3612.6	4391.7	7135.7	15643.3	30824.7	35250.9	33417.0
45°	4315.9	4012.5	3819.5	3598.9	3550.6	4122.8	6818.5	15195.2	31748.5	35319.8	32899.9
47.5°	4205.6	3936.7	3729.8	3467.9	3357.6	4026.3	6570.3	14822.9	31265.9	34671.7	32182.9
50°	4129.7	3819.5	3626.4	3440.3	3130.0	3860.8	6246.3	14733.2	30590.3	33796.1	30852.3
52.5°	3998.7	3723.0	3523.0	3378.2	2881.8	3709.2	6122.2	15257.2	31417.6	33141.2	30466.2
55°	3874.6	3592.0	3336.9	3054.2	2675.0	3309.3	5777.5	15746.7	32624.1	34651.0	32217.3
57.5°	3743.6	3474.8	3199.0	2861.2	2475.1	2895.6	5419.0	15836.3	30362.8	32024.3	30583.4
60°	3571.3	3226.6	3019.7	2578.5	2261.3	2399.2	4295.2	13961.1	23551.1	26743.2	26791.5
62.5°	3378.2	3005.9	2826.7	2309.6	2040.7	2068.3	3502.3	11734.2	19104.3	22137.8	23454.6
65°	3123.1	2764.6	2550.9	2137.3	1882.2	1792.5	2564.7	8597.3	14512.6	17959.8	19455.9
67.5°	2792.2	2454.4	2185.5	1861.5	1682.2	1537.4	1751.2	4839.8	8569.7	12058.2	12513.3
70°	2440.6	2151.0	1868.4	1599.5	1399.6	1296.1	1282.4	2144.1	4095.2	6487.6	7383.9
72.5°	1923.5	1716.7	1489.2	1289.2	1158.3	1006.6	916.9	889.4	1385.8	2640.5	3647.1
75°	1378.9	1206.5	1075.5	944.5	848.0	765.3	696.3	634.3	579.1	661.9	910.1
77.5°	868.7	806.6	703.2	668.8	613.6	592.9	565.3	530.9	489.5	461.9	461.9
80°	586.0	544.7	510.2	503.3	482.6	475.7	482.6	448.1	406.8	372.3	386.1
82.5°	393.0	386.1	379.2	372.3	379.2	386.1	399.9	393.0	358.5	337.8	344.7
85°	234.4	248.2	262.0	275.8	303.4	268.9	220.6	186.1	165.5	151.7	144.8
87.5°	89.6	124.1	110.3	103.4	110.3	103.4	96.5	89.6	75.8	68.9	68.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P534270

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5	21110.5
2.5°	22827.2	22965.1	23082.3	23054.7	22813.4	22489.4	22358.4	21689.7	21551.8	21462.1
5°	23137.5	23937.2	24109.6	24006.2	23378.8	22585.9	21813.8	20834.8	20262.5	20241.8
7.5°	22565.2	23551.1	23861.4	24095.8	23261.6	21882.7	20559.0	19090.5	18732.0	18759.6
10°	21110.5	22682.4	23447.7	23689.0	22730.7	21538.0	19704.1	18214.9	17449.6	17435.8
12.5°	20303.9	21538.0	21751.7	22089.5	21806.9	20600.3	19207.7	17539.2	16794.7	16780.9
15°	19586.9	20400.4	20462.5	20938.2	21089.8	20276.3	19338.7	17559.9	16960.1	16898.1
17.5°	20214.3	19648.9	19414.5	19476.6	19924.7	20221.2	20097.1	18732.0	18118.4	17773.7
20°	20634.8	19373.1	18663.0	18732.0	19262.8	20345.3	21227.7	20428.0	19455.9	19497.2
22.5°	21758.6	19414.5	18304.5	18228.7	19069.8	20993.3	22503.2	22572.1	21634.5	21407.0
25°	23440.8	19890.2	18194.2	18173.5	18980.2	21689.7	23992.4	25109.3	24150.9	23730.4
27.5°	24792.1	20634.8	18538.9	18607.9	19262.8	22255.0	25260.9	26743.2	26012.4	25495.3
30°	25977.9	21407.0	19021.5	18704.4	20021.2	22551.4	25805.6	28604.7	28018.7	27591.2
32.5°	26467.4	22503.2	19786.8	19262.8	20648.6	22910.0	26936.3	30411.0	29907.7	28852.9
35°	27294.8	23116.8	20200.5	20159.1	21744.8	23771.7	27467.1	31603.7	31396.9	30459.3
37.5°	27956.6	23737.3	21669.0	21213.9	23247.8	25219.6	28322.0	33251.5	32775.8	32334.5
40°	28466.8	24847.3	23040.9	23640.8	25095.5	26536.4	29108.0	33354.9	34726.9	33444.5
42.5°	27998.0	25840.1	25295.4	26729.4	28108.3	28039.4	29197.6	34154.7	35181.9	34513.2
45°	27880.8	27522.3	28859.8	30162.8	30480.0	29287.2	28556.4	33272.2	35044.0	34747.6
47.5°	27598.1	29176.9	31507.2	33630.7	33148.1	30121.5	27791.2	33113.6	35126.8	34595.9
50°	27501.6	29535.4	33465.2	35533.5	35244.0	30845.4	27432.7	32093.2	34540.7	34492.5
52.5°	27494.7	30273.1	34278.8	36567.7	36746.9	31989.8	27922.2	32610.3	34995.8	35402.5
55°	27804.9	30038.7	34175.3	35995.4	35926.5	31479.6	27977.3	32955.0	35554.2	35954.1
57.5°	26226.1	26908.7	28204.8	29645.7	29273.4	26074.5	24985.2	30466.2	32631.0	32341.4
60°	22648.0	20510.7	19049.1	18980.2	18256.3	17256.6	20448.7	27191.4	27191.4	26908.7
62.5°	19835.1	13464.7	11568.7	11031.0	11548.1	12699.4	19724.8	26446.8	25695.3	25371.2
65°	17346.2	10279.5	8362.9	8211.2	9107.4	10844.8	17835.7	22530.8	21207.0	20131.5
67.5°	11162.0	7528.6	6218.7	5949.8	7032.2	7963.0	11872.1	13857.7	13023.4	12602.9
70°	7197.7	4901.9	3461.0	3247.2	3667.8	4908.8	7583.8	8080.2	6866.8	6584.1
72.5°	3405.8	2116.6	1213.4	999.7	1123.8	1875.3	2999.0	3226.6	2681.9	2454.4
75°	1082.4	779.1	496.4	427.5	406.8	482.6	689.4	530.9	386.1	379.2
77.5°	482.6	461.9	393.0	330.9	289.6	241.3	199.9	165.5	172.4	179.3
80°	399.9	365.4	324.0	289.6	241.3	186.1	144.8	110.3	110.3	117.2
82.5°	351.6	317.1	282.7	241.3	206.8	151.7	110.3	75.8	68.9	68.9
85°	151.7	179.3	193.0	206.8	165.5	124.1	75.8	48.3	41.4	41.4
87.5°	62.0	55.2	48.3	41.4	34.5	34.5	27.6	20.7	13.8	13.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)