

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: P452786

Luminaire Tested: **GLAN-SA3D-730-U-SLR**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452786
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-22)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3D-730-U-SLR
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18129 lumens
Efficiency: N/A
Efficacy: 98.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 184
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

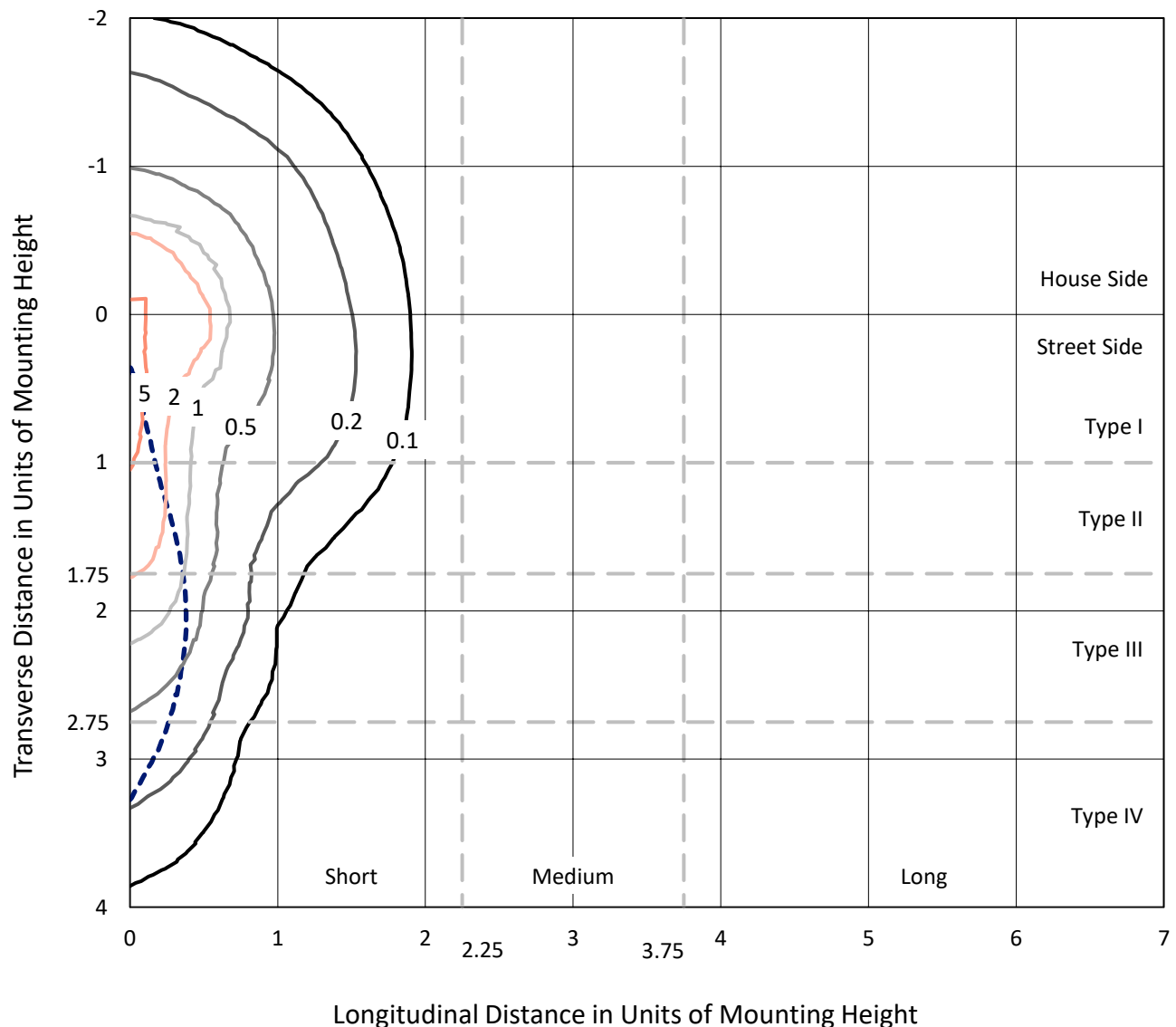


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

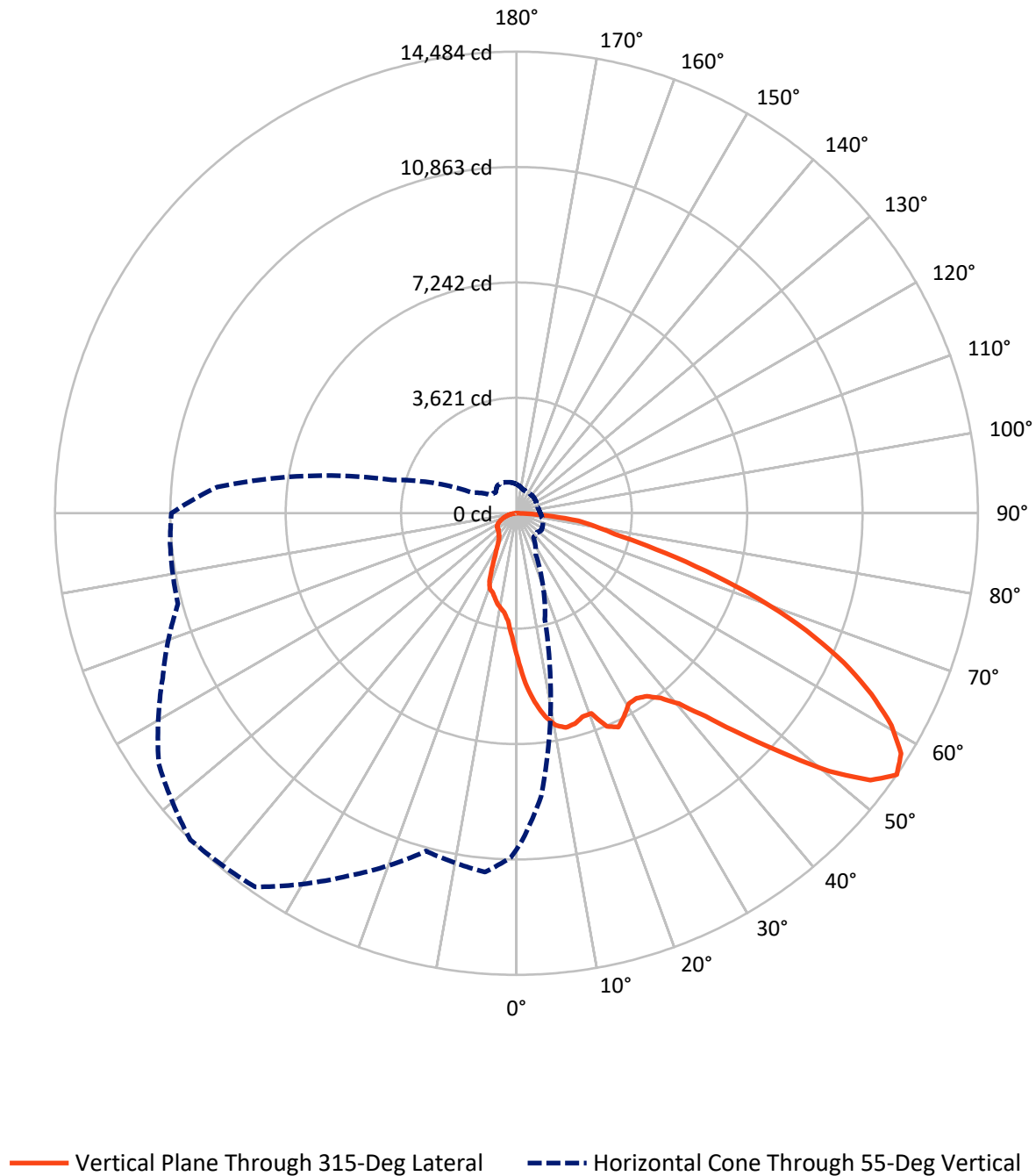


Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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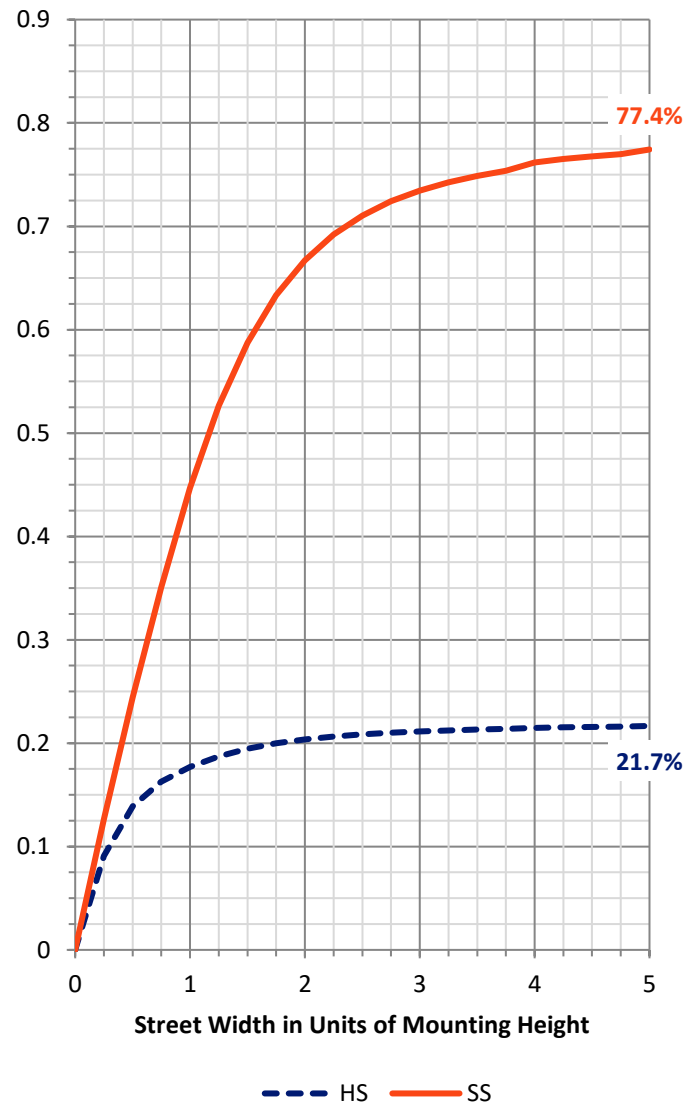
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3965.6	0.0	3965.6
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	14163.4	0.0	14163.4
	% Fixture	78.1	0.0	78.1
Total	Lumens	18129.0	0.0	18129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	385.6	2.1
10°-20°	1023.0	5.6
20°-30°	1767.3	9.7
30°-40°	2053.9	11.3
40°-50°	2865.5	15.8
50°-60°	3888.2	21.4
60°-70°	3699.2	20.4
70°-80°	1998.4	11.0
80°-90°	447.9	2.5
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°	18129.0	100.0
0°-180°	18129.0	100.0

Coefficient of Utilization



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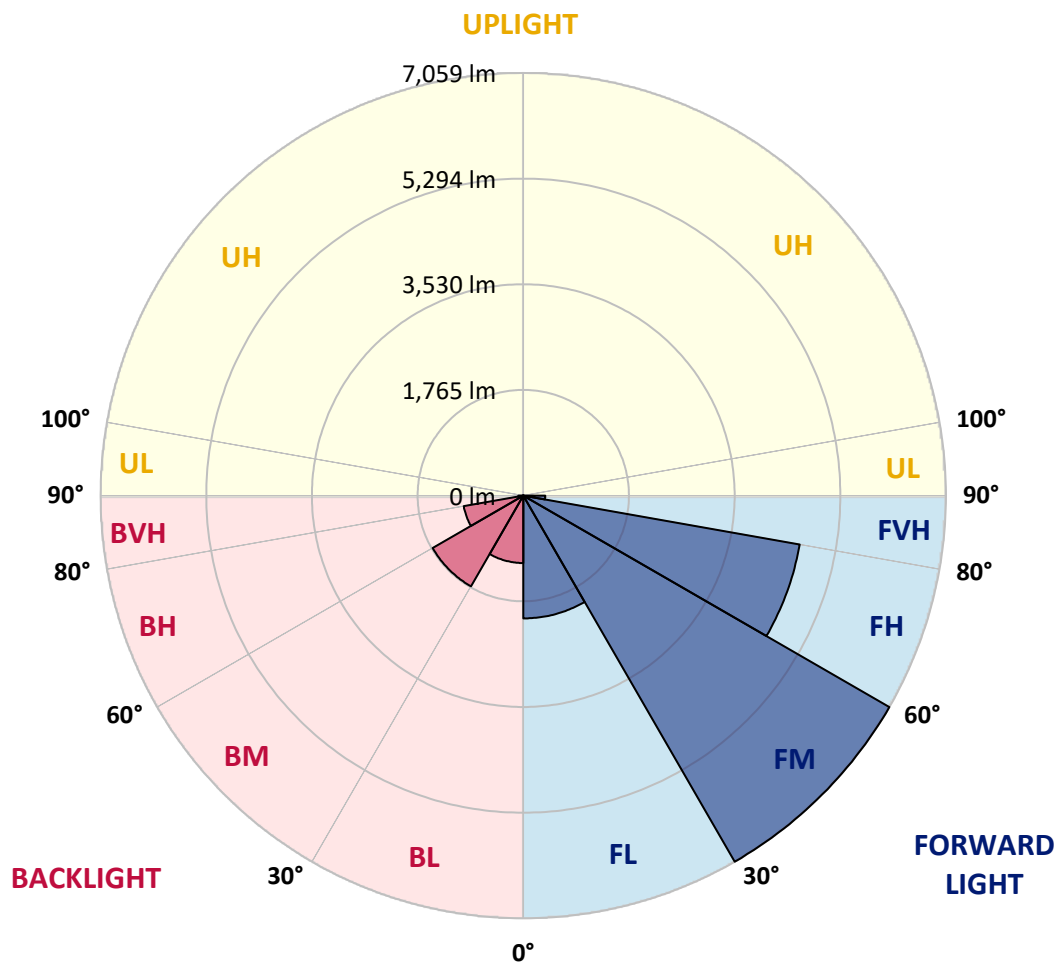
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2050.4	11.3			
FM	(30°-60°)	7059.1	38.9			
FH	(60°-80°)	4687.9	25.9			G2/5000
FVH	(80°-90°)	366.0	2.0			G3/500
BL	(0°-30°)	1125.5	6.2	B3/2500		
BM	(30°-60°)	1748.6	9.6	B2/2500		
BH	(60°-80°)	1009.7	5.6	B3/2500		G3/2500
BVH	(80°-90°)	81.8	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7
2.5°	5054.4	5035.3	4981.4	4840.3	4698.0	4553.3	4442.0	4303.3	4158.6	4080.8	3981.6
5°	5123.8	5102.2	4975.5	4657.3	4369.1	4066.5	3824.9	3613.2	3527.1	3400.3	3298.6
7.5°	4961.1	4951.5	4761.4	4304.5	3909.8	3513.9	3240.0	3070.2	2915.9	2858.5	2870.5
10°	4812.8	4774.5	4536.5	3939.7	3479.2	3157.5	2961.4	2795.1	2686.3	2657.6	2663.5
12.5°	4689.6	4638.2	4357.1	3694.5	3291.5	3034.3	2784.3	2610.9	2511.6	2539.2	2632.4
15°	4664.5	4595.1	4281.8	3610.8	3188.6	2857.3	2583.4	2383.7	2309.5	2369.3	2518.8
17.5°	4827.1	4739.8	4410.9	3638.3	3090.5	2676.7	2340.6	2112.2	2050.0	2145.7	2340.6
20°	5349.8	5220.6	4814.0	3797.4	3081.0	2587.0	2199.5	1969.8	1996.2	2178.0	2381.3
22.5°	6316.2	6122.4	5519.6	4029.4	3131.2	2564.3	2170.8	2051.2	2195.9	2350.2	2484.1
25°	6507.6	6355.7	5646.4	4082.0	3120.4	2548.7	2252.1	2311.9	2473.4	2549.9	2503.3
27.5°	6615.2	6441.8	5638.1	3821.3	2790.3	2311.9	2152.8	2252.1	2292.8	2218.6	2091.8
30°	6866.4	6685.8	5780.4	3547.4	2297.6	1715.1	1503.4	1462.7	1490.2	1504.6	1459.1
32.5°	7212.0	7033.8	6048.3	3368.0	1986.6	1418.5	1210.4	1153.0	1139.8	1124.3	1106.3
35°	7659.3	7385.4	6311.4	3253.2	1858.6	1312.0	1120.7	1076.4	1058.5	1037.0	1017.8
37.5°	8113.8	7826.8	6643.9	3132.4	1773.7	1237.9	1060.9	1040.5	1009.4	986.7	959.2
40°	8597.0	8275.3	6946.5	3027.1	1691.2	1190.0	1017.8	1015.4	974.8	948.4	916.2
42.5°	9015.6	8684.3	7216.8	2962.5	1627.8	1139.8	991.5	998.7	956.8	917.3	875.5
45°	9348.1	9022.8	7466.8	2962.5	1576.4	1089.6	986.7	981.9	940.1	891.0	843.2
47.5°	9639.9	9303.9	7710.8	3037.9	1544.1	1047.7	960.4	968.8	925.7	863.5	816.9
50°	9866.0	9569.4	8039.7	3155.1	1511.8	1014.2	926.9	972.4	913.8	849.2	795.4
52.5°	10154.2	9888.7	8435.5	3315.4	1484.3	977.2	897.0	972.4	912.6	850.4	791.8
55°	10553.7	10273.8	8912.8	3448.1	1440.0	942.5	870.7	944.9	909.0	844.4	782.2
57.5°	10833.6	10624.3	9250.0	3536.6	1376.6	898.2	846.8	918.5	893.4	821.7	753.5
58°	10846.7	10642.2	9299.1	3557.0	1361.1	889.8	840.8	906.6	886.3	812.1	743.9
60°	10696.0	10520.2	9308.6	3528.3	1272.6	848.0	809.7	857.5	848.0	755.9	692.5
62.5°	10148.3	9960.5	8922.3	3295.0	1155.4	796.6	761.9	791.8	770.2	676.9	618.3
65°	9369.6	9024.0	8128.2	2929.1	1071.6	741.5	697.3	699.7	676.9	610.0	558.5
67.5°	8332.7	7946.4	6881.9	2468.6	1008.2	680.5	620.7	614.8	587.2	544.2	502.3
70°	7056.5	6792.2	5592.6	2008.1	937.7	613.6	534.6	531.0	514.3	482.0	444.9
72.5°	5719.4	5383.3	4516.2	1607.5	851.6	549.0	454.5	461.7	440.1	417.4	383.9
75°	4220.8	4000.7	3491.2	1289.3	735.6	478.4	379.1	381.5	372.0	348.0	321.7
77.5°	2779.6	2713.8	2497.3	846.8	565.7	380.3	309.8	312.2	305.0	283.5	255.9
80°	1870.6	1826.3	1692.4	545.4	377.9	275.1	239.2	241.6	240.4	217.7	180.6
82.5°	1153.0	1133.8	1090.8	368.4	261.9	197.3	157.9	165.1	178.2	153.1	123.2
85°	544.2	545.4	659.0	200.9	154.3	126.8	86.1	92.1	92.1	92.1	69.4
87.5°	70.6	74.2	90.9	84.9	56.2	47.8	31.1	26.3	22.7	29.9	21.5
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°	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7
2.5°	3946.9	3923.0	3871.5	3859.6	3852.4	3872.7	3818.9	3833.3	3809.3	3876.3	3865.5
5°	3304.6	3307.0	3348.9	3376.4	3385.9	3376.4	3340.5	3278.3	3230.5	3211.3	3216.1
7.5°	2847.7	2889.6	2961.4	3041.5	3114.4	3136.0	3115.6	2997.2	2868.1	2786.7	2760.4
10°	2695.8	2752.0	2834.6	2898.0	2962.5	3014.0	3024.7	2932.6	2779.6	2587.0	2511.6
12.5°	2704.2	2780.8	2859.7	2880.0	2874.0	2894.4	2884.8	2869.3	2768.8	2523.6	2398.0
15°	2625.3	2716.2	2771.2	2760.4	2741.3	2723.3	2698.2	2658.8	2622.9	2450.7	2311.9
17.5°	2443.5	2536.8	2582.2	2585.8	2585.8	2581.0	2520.0	2505.7	2500.9	2417.2	2332.2
20°	2477.0	2528.4	2508.1	2474.6	2484.1	2516.4	2480.6	2473.4	2500.9	2538.0	2522.4
22.5°	2496.1	2478.2	2325.1	2176.8	2143.3	2243.7	2264.1	2344.2	2455.4	2589.4	2676.7
25°	2377.7	2233.0	1959.1	1791.6	1697.2	1790.4	1912.4	2060.7	2227.0	2399.2	2500.9
27.5°	1987.8	1877.8	1681.6	1530.9	1448.4	1462.7	1566.8	1701.9	1856.2	1972.2	2046.4
30°	1497.4	1448.4	1346.7	1295.3	1245.1	1233.1	1277.4	1328.8	1397.0	1411.3	1430.4
32.5°	1102.7	1095.6	1101.5	1084.8	1075.2	1074.0	1060.9	1072.8	1080.0	1088.4	1071.6
35°	997.5	987.9	971.2	966.4	960.4	962.8	956.8	950.8	955.6	962.8	967.6
37.5°	943.7	929.3	905.4	897.0	897.0	900.6	891.0	888.6	897.0	919.7	931.7
40°	901.8	885.1	857.5	846.8	854.0	863.5	850.4	845.6	865.9	889.8	909.0
42.5°	862.3	849.2	822.9	810.9	816.9	834.8	815.7	812.1	838.4	864.7	887.4
45°	828.8	815.7	791.8	785.8	788.2	804.9	791.8	791.8	816.9	845.6	865.9
47.5°	802.5	785.8	770.2	765.5	767.8	777.4	775.0	775.0	798.9	828.8	849.2
50°	776.2	761.9	741.5	743.9	749.9	763.1	761.9	765.5	789.4	826.5	848.0
52.5°	764.3	742.7	720.0	722.4	740.3	755.9	751.1	754.7	782.2	851.6	882.7
55°	751.1	722.4	696.1	699.7	720.0	742.7	736.8	741.5	773.8	868.3	911.4
57.5°	726.0	692.5	663.8	666.2	696.1	720.0	710.4	716.4	754.7	850.4	895.8
58°	715.2	686.5	659.0	660.2	688.9	715.2	704.5	709.2	748.7	845.6	888.6
60°	669.8	653.0	629.1	630.3	657.8	680.5	674.6	679.3	717.6	810.9	843.2
62.5°	607.6	598.0	592.0	592.0	608.8	630.3	636.3	642.3	676.9	733.2	761.9
65°	540.6	540.6	541.8	541.8	552.6	580.1	583.7	599.2	631.5	659.0	680.5
67.5°	495.2	492.8	495.2	489.2	494.0	510.7	528.6	543.0	576.5	595.6	602.8
70°	436.5	435.4	436.5	428.2	434.2	448.5	460.5	484.4	519.1	533.4	537.0
72.5°	379.1	379.1	381.5	375.6	375.6	391.1	399.5	425.8	458.1	466.4	467.6
75°	319.3	322.9	322.9	314.6	316.9	326.5	337.3	358.8	388.7	394.7	394.7
77.5°	253.6	266.7	266.7	258.3	261.9	263.1	277.5	288.2	311.0	313.4	303.8
80°	184.2	197.3	208.1	200.9	206.9	199.7	208.1	215.3	238.0	227.2	211.7
82.5°	131.6	141.1	149.5	150.7	144.7	131.6	142.3	143.5	154.3	139.9	131.6
85°	73.0	81.3	92.1	87.3	77.7	69.4	73.0	75.3	74.2	70.6	65.8
87.5°	19.1	20.3	22.7	16.7	15.5	13.2	17.9	17.9	20.3	21.5	20.3
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7
2.5°	3873.9	3926.5	4040.2	4126.3	4231.5	4359.5	4510.2	4662.1	4826.0	4877.4	4949.1
5°	3205.3	3336.9	3391.9	3548.6	3704.1	3937.3	4186.1	4474.3	4790.1	4942.0	5087.9
7.5°	2738.9	2809.5	2866.9	2981.7	3168.3	3451.7	3763.9	4123.9	4571.2	4792.5	5006.6
10°	2487.7	2494.9	2565.5	2707.8	2870.5	3120.4	3415.8	3818.9	4317.6	4586.7	4837.9
12.5°	2321.5	2290.4	2366.9	2515.2	2699.4	2930.3	3201.8	3585.7	4134.7	4410.9	4714.7
15°	2175.6	2126.5	2183.9	2335.8	2517.6	2789.1	3081.0	3487.6	4062.9	4384.6	4721.9
17.5°	2179.2	2044.0	2064.3	2192.3	2372.9	2649.2	3003.2	3484.0	4171.7	4542.5	4942.0
20°	2448.3	2231.8	2139.7	2163.6	2338.2	2639.6	3039.1	3651.5	4529.3	5069.9	5496.9
22.5°	2712.6	2582.2	2433.9	2384.9	2480.6	2796.3	3267.5	4047.3	5306.8	6121.2	6892.7
25°	2620.5	2731.7	2694.6	2625.3	2646.8	2908.7	3423.0	4372.7	5910.7	6828.1	7552.9
27.5°	2096.6	2298.8	2339.4	2338.2	2346.6	2561.9	3078.6	4153.8	5986.1	6963.2	7655.7
30°	1473.5	1491.4	1513.0	1554.8	1593.1	1785.7	2408.8	3646.7	5952.6	7024.2	7717.9
32.5°	1063.3	1087.2	1117.1	1174.5	1265.4	1510.6	2107.4	3485.2	6129.6	7276.6	7899.7
35°	972.4	999.9	1028.6	1094.4	1180.5	1407.7	1987.8	3418.2	6420.3	7685.6	8226.2
37.5°	943.7	974.8	999.9	1047.7	1117.1	1333.6	1879.0	3372.8	6718.1	8118.6	8664.0
40°	923.3	959.2	979.5	1017.8	1065.7	1265.4	1782.1	3336.9	7006.3	8514.5	9015.6
42.5°	905.4	942.5	968.8	996.3	1035.8	1204.4	1696.0	3301.0	7256.3	8898.4	9366.1
45°	883.9	930.5	964.0	985.5	1020.2	1153.0	1630.2	3272.3	7540.9	9239.3	9720.1
47.5°	865.9	917.3	959.2	984.3	997.5	1117.1	1577.6	3311.8	7883.0	9595.7	10049.0
50°	867.1	916.2	968.8	1008.2	973.6	1087.2	1545.3	3468.5	8327.9	10019.1	10308.5
52.5°	905.4	965.2	1007.1	1016.6	940.1	1051.3	1528.5	3742.4	8854.2	10393.4	10570.4
55°	948.4	1010.6	1056.1	1050.1	922.1	1005.9	1524.9	4034.2	9430.6	10830.0	10911.3
57.5°	932.9	1023.8	1093.2	1062.1	923.3	961.6	1509.4	4269.8	9912.6	11156.5	11248.6
58°	928.1	1019.0	1097.9	1059.7	919.7	948.4	1505.8	4290.1	9979.6	11179.2	11296.4
60°	881.5	977.2	1094.4	1041.7	899.4	912.6	1466.3	4355.9	9961.7	11062.0	11325.1
62.5°	796.6	875.5	1011.8	954.4	837.2	864.7	1377.8	4274.6	9476.1	10497.5	10905.3
65°	700.9	759.5	850.4	839.6	748.7	815.7	1257.0	3952.9	8503.7	9581.3	10010.7
67.5°	629.1	676.9	734.4	718.8	673.4	749.9	1126.7	3408.7	7412.9	8481.0	9021.6
70°	556.2	593.2	621.9	611.2	596.8	685.3	1010.6	2766.4	6367.6	7435.7	7959.5
72.5°	482.0	516.7	540.6	525.1	516.7	617.1	916.2	2146.9	5029.3	6134.4	6807.8
75°	403.1	437.7	454.5	436.5	431.8	544.2	776.2	1603.9	3773.5	4729.1	5310.3
77.5°	312.2	349.2	370.8	364.8	367.2	447.3	626.7	1097.9	2698.2	3223.3	3835.6
80°	218.9	259.5	273.9	267.9	284.7	340.9	442.5	697.3	1861.0	2091.8	2523.6
82.5°	135.2	173.4	175.8	181.8	193.8	252.4	333.7	424.6	1168.5	1208.0	1521.3
85°	68.2	82.5	88.5	98.1	108.8	154.3	190.2	263.1	752.3	569.3	850.4
87.5°	22.7	23.9	28.7	35.9	44.3	63.4	81.3	107.6	186.6	102.9	263.1
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: P452786

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7	4549.7
2.5°	5093.9	5195.5	5269.7	5337.8	5272.1	5266.1	5201.5	5097.4	5054.4	5054.4
5°	5394.1	5632.1	5824.6	5947.8	5895.2	5768.4	5559.1	5292.4	5148.9	5123.8
7.5°	5476.6	5946.6	6304.2	6431.0	6342.5	6062.6	5662.0	5212.3	5006.6	4961.1
10°	5426.4	6037.5	6562.6	6763.5	6640.3	6216.9	5670.3	5119.0	4865.4	4812.8
12.5°	5373.7	6049.5	6610.4	6901.1	6820.9	6341.3	5731.3	5058.0	4765.0	4689.6
15°	5412.0	6054.3	6551.8	6852.0	6903.4	6490.8	5831.8	5102.2	4744.6	4664.5
17.5°	5653.6	6145.2	6468.1	6710.9	6891.5	6694.1	6117.7	5313.9	4926.4	4827.1
20°	6158.3	6362.8	6515.9	6703.7	6994.3	7109.2	6702.5	5895.2	5437.1	5349.8
22.5°	7619.9	7582.8	7269.4	7265.8	7686.8	8147.3	8119.8	7076.9	6388.0	6316.2
25°	8167.6	7995.4	7542.1	7432.1	7617.5	8327.9	8225.0	7318.5	6682.2	6507.6
27.5°	7953.6	7526.6	7228.8	7203.6	7142.6	7813.6	8061.2	7416.5	6785.0	6615.2
30°	7940.4	7312.5	6886.7	6936.9	6995.5	7636.6	8152.1	7723.9	7048.2	6866.4
32.5°	7972.7	7342.4	6911.8	6921.4	7096.0	7662.9	8252.6	8058.8	7393.8	7212.0
35°	8103.1	7512.2	7072.1	7049.4	7322.1	7835.1	8423.6	8585.1	7866.2	7659.3
37.5°	8313.6	7850.7	7365.1	7359.1	7755.0	8146.1	8636.5	9116.1	8336.3	8113.8
40°	8623.3	8246.6	7886.6	7854.3	8343.5	8652.0	8912.8	9681.8	8882.9	8597.0
42.5°	8997.7	8721.4	8574.3	8702.3	9172.3	9220.1	9343.3	10204.5	9348.1	9015.6
45°	9344.5	9331.4	9535.9	9875.6	10149.4	9862.4	9793.0	10554.9	9709.3	9348.1
47.5°	9757.2	10113.6	10730.7	11228.3	11515.3	10609.9	10177.0	10783.3	9972.4	9639.9
50°	10175.8	11050.1	12035.6	12729.3	12790.3	11422.0	10441.3	10998.6	10211.6	9866.0
52.5°	10615.9	11797.6	13109.6	13915.7	13797.3	12128.9	10697.2	11144.5	10458.0	10154.2
55°	10998.6	12255.6	13710.0	14483.8	14310.4	12559.4	10973.5	11302.4	10809.7	10553.7
57.5°	11212.7	12293.9	13560.5	14236.3	14048.5	12475.7	11100.3	11419.6	11034.5	10833.6
58°	11243.8	12242.5	13427.7	14092.7	13901.4	12405.1	11099.1	11414.8	11048.9	10846.7
60°	11216.3	11908.8	12933.8	13525.8	13324.9	11962.6	11053.6	11325.1	10867.1	10696.0
62.5°	10961.5	11329.9	12081.0	12511.6	12454.2	11271.3	10867.1	10986.7	10313.3	10148.3
65°	10626.7	10540.5	10989.1	11294.0	11337.1	10753.4	10681.7	10254.7	9602.9	9369.6
67.5°	10220.0	9645.9	9644.7	9818.2	9889.9	9956.9	10295.4	9459.3	8579.1	8332.7
70°	9529.9	8266.9	7886.6	8091.1	8031.3	8597.0	9605.3	8342.3	7344.8	7056.5
72.5°	8264.5	6560.2	5951.4	6214.5	6063.8	6742.0	8404.5	6865.2	6073.4	5719.4
75°	6698.9	4907.3	4279.4	4521.0	4427.7	5114.2	6993.1	4986.2	4355.9	4220.8
77.5°	5201.5	3555.8	3191.0	3157.5	3226.9	3805.7	5129.7	3366.8	2871.7	2779.6
80°	3341.7	2545.1	2566.7	2523.6	2559.5	2399.2	3114.4	2148.1	1944.7	1870.6
82.5°	2199.5	1773.7	2114.6	1951.9	1853.8	1613.4	2042.8	1406.5	1193.6	1153.0
85°	1498.6	1306.1	1188.8	909.0	1070.4	1242.7	1532.1	757.1	600.4	544.2
87.5°	676.9	454.5	333.7	205.7	325.3	375.6	743.9	88.5	68.2	70.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)