

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: McGRAW-EDISON

Report Number: P533801

Luminaire Tested: **GALN-SA9B-730-U-SLR-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533801
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-25)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-SLR-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT
ELIMINATOR RIGHT OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25972 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G2

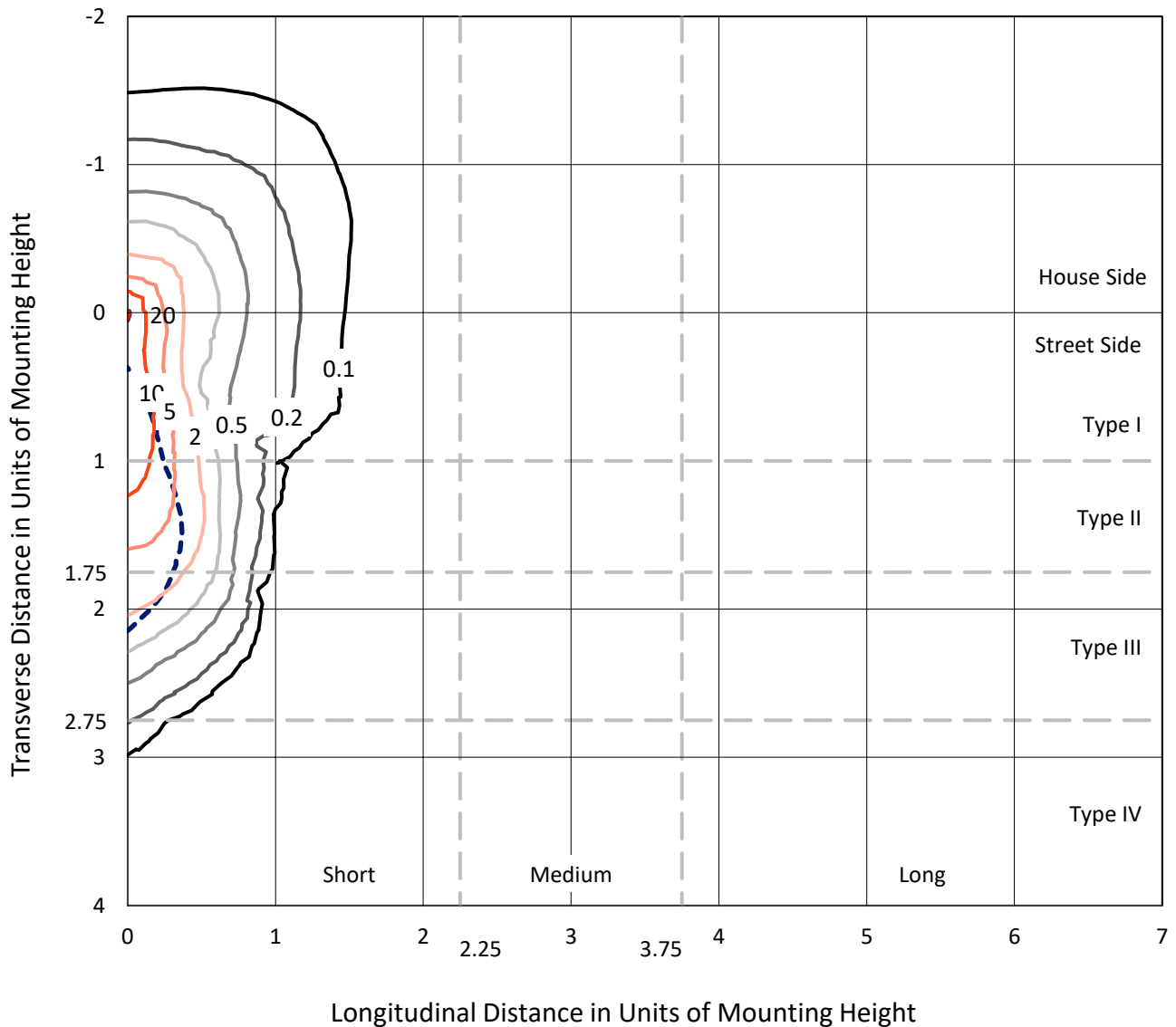
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

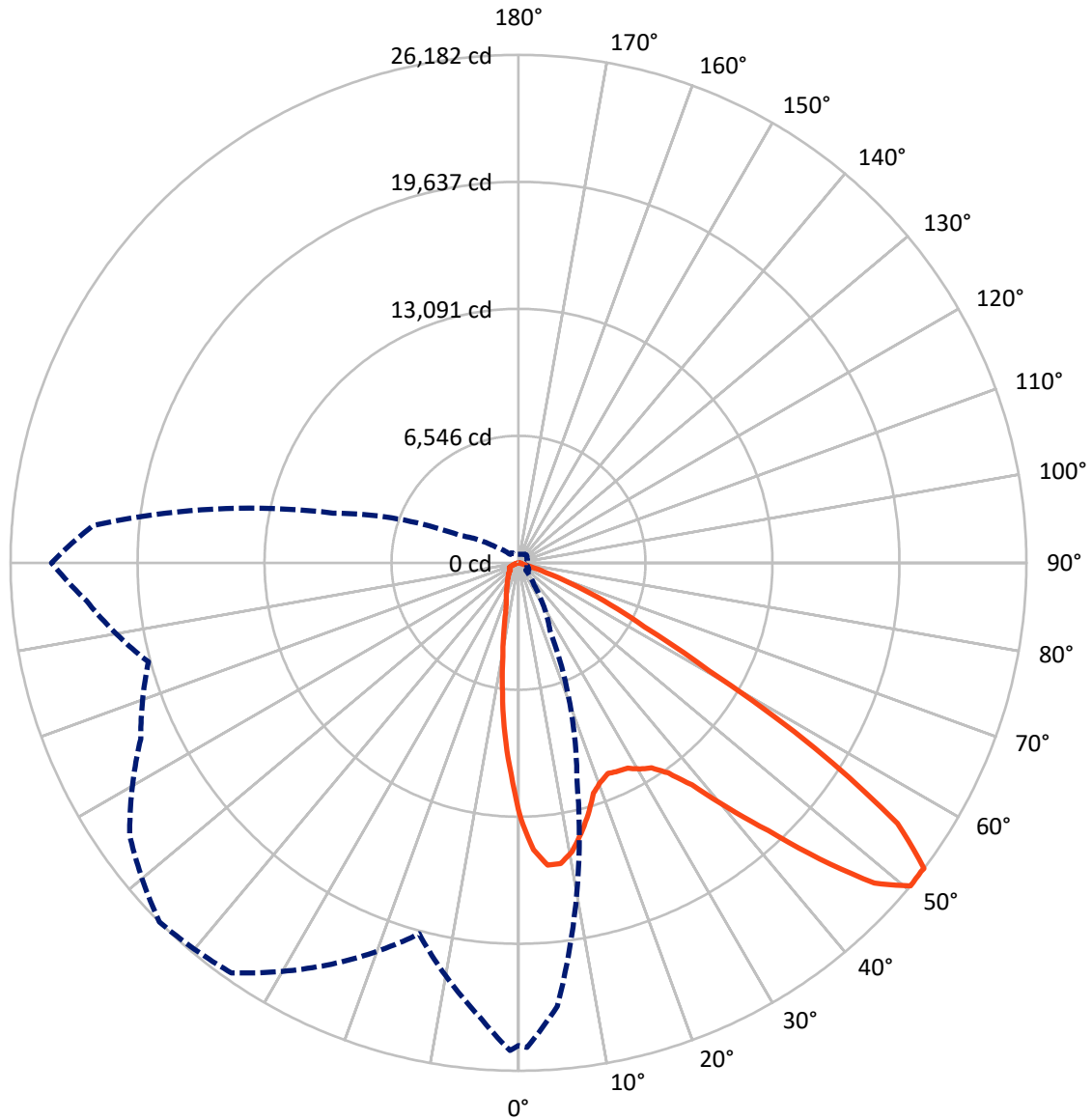
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 315-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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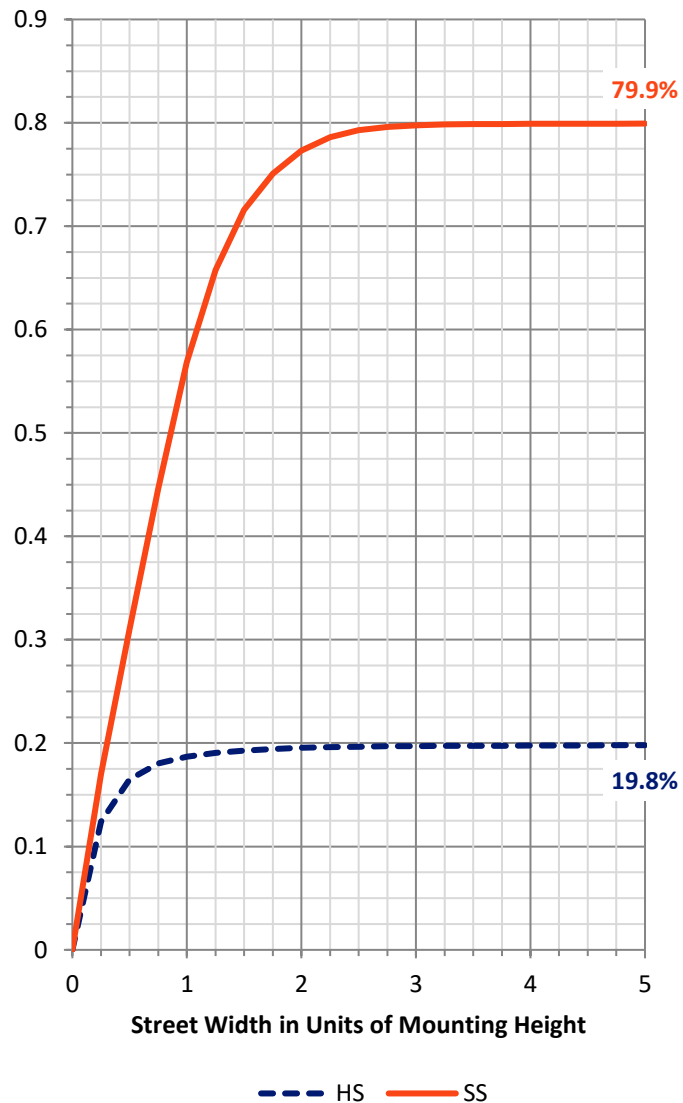
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5202.2	0.0	5202.2
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	20769.8	0.0	20769.8
	% Fixture	80.0	0.0	80.0
Total	Lumens	25972.0	0.0	25972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	960.0	3.7
10°-20°	1908.0	7.3
20°-30°	2866.4	11.0
30°-40°	4302.4	16.6
40°-50°	6046.8	23.3
50°-60°	6522.5	25.1
60°-70°	3028.4	11.7
70°-80°	284.9	1.1
80°-90°	52.5	0.2
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°	25972.0	100.0
0°-180°	25972.0	100.0

Coefficient of Utilization



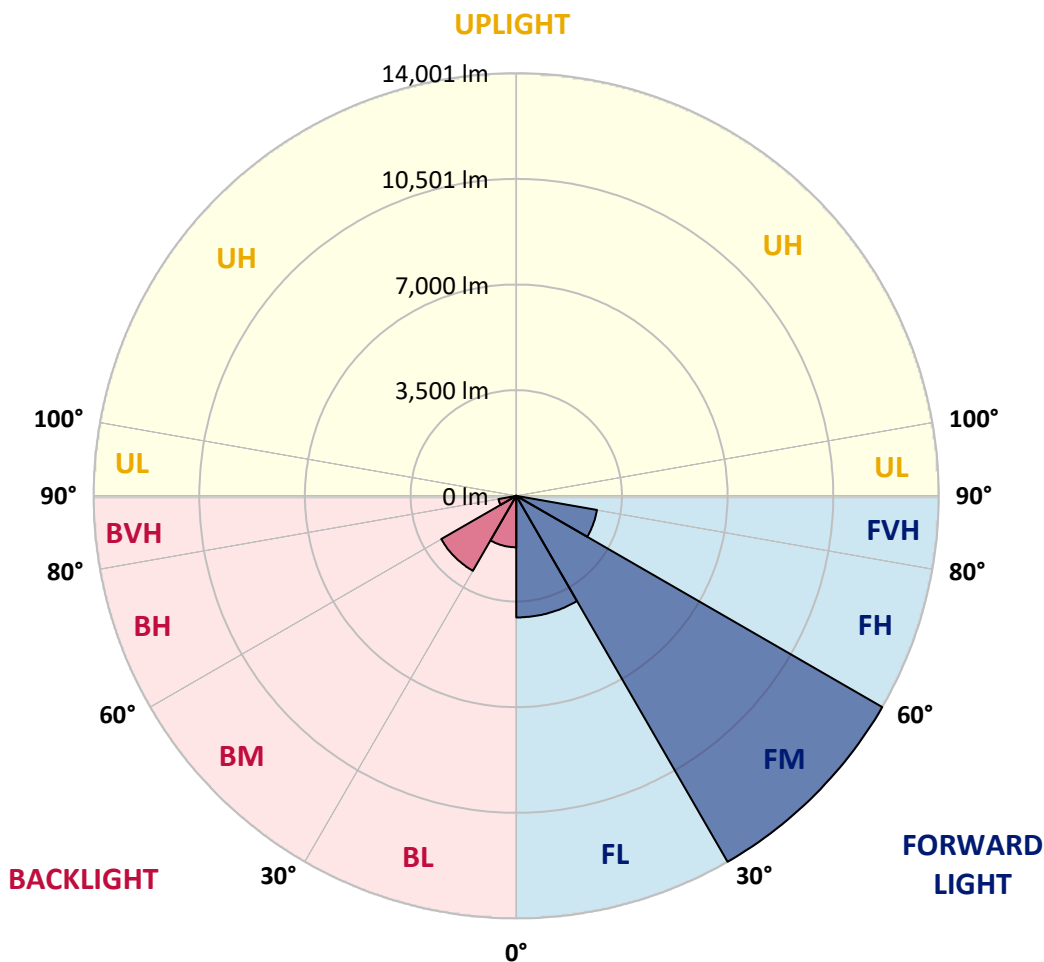
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4029.3	15.5			
FM	(30°-60°)	14000.9	53.9			
FH	(60°-80°)	2716.0	10.5			G2/5000
FVH	(80°-90°)	23.7	0.1			G1/100
BL	(0°-30°)	1705.1	6.6	B3/2500		
BM	(30°-60°)	2870.8	11.1	B3/5000		
BH	(60°-80°)	597.3	2.3	B2/1000		G2/1000
BVH	(80°-90°)	28.9	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-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1
2.5°	13691.5	13480.3	13212.3	12990.7	12660.9	11996.2	11815.8	11599.4	11419.1	11176.9	10836.8
5°	12449.7	12382.7	12259.0	11424.2	10821.3	10017.4	9357.9	9079.6	8713.7	8414.9	8198.4
7.5°	11501.5	11233.5	10841.9	10002.0	9038.4	8177.8	7446.1	7018.4	6534.0	6369.1	6075.4
10°	10486.4	10548.2	9971.1	8791.0	7626.4	6930.8	6477.3	6065.1	5627.1	5338.5	4921.1
12.5°	10161.7	9960.8	9517.6	8059.3	7064.8	6415.5	5864.1	5354.0	4890.2	4426.4	4024.5
15°	10373.0	10063.8	9445.5	7904.7	6631.9	5822.9	5132.4	4441.9	4014.2	3421.6	3004.2
17.5°	11130.5	10883.1	10053.5	8069.6	6410.3	5256.1	4230.6	3519.5	2865.1	2329.2	2117.9
20°	12393.0	12042.6	11001.7	8280.9	6080.5	4570.7	3431.9	2555.9	1937.5	1710.8	1592.3
22.5°	13629.7	13439.0	12125.0	8688.0	5786.8	3962.7	2576.5	1721.1	1448.0	1406.8	1329.5
25°	15984.6	15412.6	13841.0	9424.8	5560.1	3390.7	1942.7	1386.2	1226.4	1195.5	1205.8
27.5°	17386.2	16907.0	15428.1	9914.4	5307.6	2952.7	1643.8	1272.8	1164.6	1097.6	1071.8
30°	18731.2	18174.6	16216.5	10202.9	4766.5	2488.9	1458.3	1221.3	1195.5	1097.6	1066.7
32.5°	19766.9	19220.7	17355.3	10635.8	4544.9	2190.0	1200.6	953.3	886.3	876.0	968.8
35°	21354.0	20771.8	18329.2	10872.8	4374.9	2035.4	1040.9	850.2	773.0	742.0	747.2
37.5°	22833.0	22436.2	19231.0	10965.6	4194.5	1989.1	932.7	762.6	695.7	675.0	669.9
40°	24069.7	23183.4	20086.4	11063.5	4117.3	1901.5	865.7	695.7	649.3	618.4	618.4
42.5°	24636.5	23734.7	21044.9	11006.8	4096.6	1762.3	865.7	639.0	602.9	572.0	566.8
45°	24512.8	24147.0	21472.6	10981.1	4096.6	1623.2	788.4	623.5	572.0	530.8	520.5
47.5°	24832.3	24353.1	22008.5	11089.3	4014.2	1525.3	664.7	654.4	541.1	489.5	479.2
50°	24889.0	24981.8	22941.2	11650.9	3833.8	1401.6	520.5	644.1	520.5	443.2	432.9
52°	25260.0	24682.9	23224.6	11949.8	3643.2	1308.9	438.0	551.4	499.8	412.2	401.9
52.5°	24749.9	25126.0	23291.6	12058.0	3663.8	1247.0	422.5	541.1	489.5	412.2	386.5
55°	24177.9	24538.6	23018.5	12289.9	3359.8	979.1	329.8	391.6	443.2	360.7	345.3
57.5°	21013.9	21379.8	20004.0	11254.2	2736.2	690.5	273.1	293.7	391.6	334.9	319.5
60°	18679.6	18416.8	16788.5	9388.8	1942.7	386.5	216.4	226.7	427.7	309.2	304.0
62.5°	17071.9	16510.2	14031.6	7250.3	1185.2	257.7	170.0	175.2	329.8	288.6	288.6
65°	12630.0	12001.3	9321.8	4385.2	582.3	180.4	128.8	139.1	206.1	247.3	247.3
67.5°	7209.1	6966.9	4503.7	1978.8	242.2	113.4	97.9	108.2	159.7	201.0	190.7
70°	3313.4	2973.3	1731.4	417.4	113.4	77.3	77.3	87.6	128.8	149.4	139.1
72.5°	968.8	917.2	422.5	67.0	46.4	46.4	51.5	67.0	97.9	113.4	103.1
75°	72.1	46.4	30.9	20.6	20.6	30.9	41.2	67.0	97.9	108.2	87.6
77.5°	5.2	10.3	5.2	5.2	15.5	30.9	46.4	82.4	128.8	134.0	97.9
80°	5.2	5.2	0.0	5.2	15.5	30.9	51.5	92.8	144.3	154.6	82.4
82.5°	0.0	0.0	0.0	5.2	20.6	41.2	61.8	97.9	134.0	164.9	87.6
85°	0.0	0.0	0.0	5.2	30.9	56.7	72.1	25.8	15.5	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1
2.5°	11079.0	10945.0	10893.5	10939.8	10924.4	10908.9	11192.3	11130.5	11120.2	11212.9	11192.3
5°	8316.9	8079.9	8729.2	8466.4	8739.5	8904.4	8935.3	8950.8	9141.4	8940.5	9203.3
7.5°	5926.0	5987.8	5982.6	6157.8	6472.2	6750.4	6915.3	6786.5	6776.2	6750.4	6637.1
10°	4735.6	4627.4	4606.8	4565.6	4663.5	4900.5	5101.5	4941.7	4828.4	4983.0	4936.6
12.5°	3869.9	3720.5	3638.0	3473.1	3478.3	3638.0	3638.0	3638.0	3751.4	3839.0	3906.0
15°	2968.1	2844.5	2844.5	2679.6	2643.5	2648.6	2731.1	2741.4	2921.8	2973.3	2999.0
17.5°	2076.7	2009.7	2087.0	2154.0	2112.7	2123.0	2154.0	2164.3	2190.0	2169.4	2220.9
20°	1597.4	1587.1	1607.7	1726.3	1813.9	1865.4	1829.3	1777.8	1746.9	1674.7	1674.7
22.5°	1355.2	1375.9	1411.9	1509.8	1623.2	1654.1	1612.9	1494.4	1401.6	1391.3	1396.5
25°	1205.8	1226.4	1283.1	1344.9	1406.8	1458.3	1417.1	1329.5	1277.9	1231.6	1231.6
27.5°	1113.0	1123.4	1154.3	1200.6	1252.2	1293.4	1277.9	1231.6	1174.9	1154.3	1107.9
30°	1040.9	1056.4	1092.4	1102.7	1149.1	1169.7	1144.0	1133.7	1097.6	1071.8	1056.4
32.5°	1004.8	999.7	1025.4	1035.8	1040.9	1056.4	1025.4	1040.9	1035.8	994.5	979.1
35°	757.5	798.7	865.7	922.4	937.8	958.5	953.3	932.7	876.0	829.6	773.0
37.5°	680.2	706.0	742.0	788.4	850.2	876.0	865.7	814.2	747.2	716.3	706.0
40°	628.7	644.1	675.0	706.0	767.8	814.2	778.1	731.7	680.2	654.4	639.0
42.5°	582.3	587.4	602.9	633.8	680.2	752.3	690.5	628.7	608.1	592.6	582.3
45°	530.8	530.8	551.4	566.8	618.4	685.3	623.5	566.8	556.5	546.2	541.1
47.5°	489.5	494.7	505.0	525.6	566.8	613.2	572.0	525.6	499.8	494.7	484.4
50°	438.0	443.2	463.8	484.4	535.9	561.7	535.9	484.4	458.6	443.2	443.2
52°	396.8	412.2	432.9	474.1	510.1	551.4	520.5	463.8	432.9	417.4	407.1
52.5°	391.6	401.9	422.5	468.9	510.1	546.2	515.3	458.6	422.5	412.2	401.9
55°	350.4	365.9	401.9	458.6	505.0	546.2	505.0	453.5	401.9	376.2	365.9
57.5°	334.9	345.3	391.6	463.8	499.8	546.2	505.0	453.5	401.9	355.6	345.3
60°	319.5	340.1	391.6	448.3	494.7	551.4	510.1	448.3	391.6	334.9	334.9
62.5°	304.0	319.5	386.5	438.0	474.1	530.8	489.5	438.0	376.2	319.5	314.3
65°	262.8	288.6	340.1	365.9	407.1	458.6	417.4	381.3	329.8	283.4	278.3
67.5°	201.0	211.3	252.5	283.4	309.2	355.6	334.9	288.6	252.5	216.4	216.4
70°	139.1	149.4	180.4	195.8	221.6	247.3	231.9	195.8	170.0	149.4	144.3
72.5°	97.9	103.1	113.4	123.7	134.0	144.3	139.1	113.4	97.9	92.8	87.6
75°	77.3	87.6	92.8	87.6	82.4	77.3	77.3	67.0	56.7	51.5	51.5
77.5°	77.3	82.4	77.3	67.0	56.7	51.5	46.4	41.2	30.9	25.8	30.9
80°	67.0	67.0	67.0	56.7	51.5	46.4	41.2	36.1	30.9	25.8	25.8
82.5°	72.1	72.1	67.0	56.7	56.7	46.4	46.4	41.2	36.1	25.8	25.8
85°	0.0	0.0	0.0	10.3	25.8	46.4	46.4	41.2	36.1	30.9	30.9
87.5°	0.0	0.0	0.0	0.0	5.2	10.3	20.6	25.8	30.9	30.9	30.9
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°	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1
2.5°	11377.8	11573.6	11944.7	12315.7	12542.4	12810.4	13294.7	13552.4	13887.3	14052.2	14376.9
5°	9167.2	9631.0	9795.9	10218.4	10671.9	11125.3	11846.8	12640.3	13299.9	13753.4	14340.8
7.5°	6688.6	6796.8	7435.8	7719.2	8461.2	9285.7	10269.9	11269.6	12104.4	12846.4	13294.7
10°	5013.9	5410.7	5812.6	6353.7	6951.4	7801.6	8744.6	9847.4	10929.5	11671.6	12238.4
12.5°	4029.6	4344.0	4879.9	5462.2	6199.1	6760.7	7708.9	8801.3	10202.9	10929.5	11676.7
15°	3050.6	3452.5	4060.6	4663.5	5441.6	6034.2	6992.6	8368.5	10172.0	11171.7	11815.8
17.5°	2262.2	2535.3	3081.5	3756.5	4550.1	5384.9	6678.3	8322.1	10517.3	11707.6	12372.4
20°	1731.4	1824.2	2169.4	2772.3	3632.9	4725.3	6168.1	8523.1	11537.6	13011.3	13686.4
22.5°	1401.6	1442.8	1576.8	1994.2	2829.0	4148.2	5926.0	8662.2	12686.7	14572.7	15474.5
25°	1221.3	1211.0	1298.6	1478.9	2210.6	3607.1	5616.8	9187.8	14093.5	16407.2	17216.2
27.5°	1113.0	1113.0	1154.3	1283.1	1834.5	3256.7	5421.0	9564.0	15510.5	18020.1	18458.1
30°	1056.4	1066.7	1185.2	1226.4	1525.3	2839.3	5096.3	9945.3	16865.8	19050.7	19653.6
32.5°	979.1	937.8	912.1	1015.1	1283.1	2463.1	4771.7	10105.0	17963.4	20313.1	20828.4
35°	752.3	731.7	762.6	839.9	1102.7	2143.6	4411.0	10285.4	19225.9	21776.6	21879.7
37.5°	680.2	675.0	695.7	762.6	927.5	1865.4	4153.3	10239.0	20189.5	22987.6	22709.3
40°	628.7	628.7	644.1	700.8	829.6	1669.6	3885.4	10197.8	21122.2	24347.9	23533.8
42.5°	587.4	587.4	613.2	649.3	788.4	1540.7	3684.4	10141.1	21905.4	25182.7	24018.2
45°	530.8	546.2	587.4	623.5	798.7	1453.1	3535.0	9924.7	22173.4	25172.4	23786.3
47.5°	489.5	510.1	551.4	602.9	721.4	1427.4	3431.9	9734.0	22080.6	24554.1	23059.7
50°	443.2	468.9	525.6	613.2	613.2	1375.9	3323.7	9904.1	22013.6	24074.8	22364.0
52°	412.2	432.9	505.0	597.7	535.9	1267.6	3256.7	10233.9	22286.7	24013.0	22054.9
52.5°	407.1	422.5	489.5	587.4	510.1	1247.0	3210.3	10311.2	22374.3	23858.4	22266.1
55°	360.7	381.3	448.3	458.6	417.4	1025.4	3060.9	10486.4	21941.5	23554.4	22065.2
57.5°	340.1	350.4	396.8	376.2	360.7	773.0	2633.2	10213.3	19488.7	20921.2	20529.6
60°	314.3	324.6	371.0	293.7	304.0	541.1	1978.8	8868.3	15649.7	17432.6	18138.6
62.5°	304.0	298.9	350.4	237.0	257.7	391.6	1396.5	7209.1	12058.0	14351.1	15572.4
65°	268.0	262.8	252.5	201.0	221.6	304.0	834.8	4704.7	8497.3	10857.4	11527.3
67.5°	206.1	216.4	185.5	159.7	185.5	237.0	463.8	2107.6	4457.3	6513.4	7054.5
70°	144.3	154.6	149.4	139.1	164.9	195.8	268.0	721.4	1844.8	3421.6	3772.0
72.5°	87.6	108.2	113.4	118.5	144.3	170.0	190.7	231.9	489.5	1211.0	1504.7
75°	51.5	72.1	87.6	103.1	118.5	144.3	159.7	164.9	170.0	226.7	365.9
77.5°	36.1	51.5	77.3	97.9	118.5	144.3	170.0	180.4	170.0	159.7	170.0
80°	30.9	51.5	72.1	92.8	123.7	149.4	170.0	170.0	164.9	144.3	154.6
82.5°	30.9	51.5	77.3	97.9	118.5	144.3	164.9	170.0	154.6	144.3	149.4
85°	36.1	56.7	82.4	103.1	128.8	118.5	108.2	87.6	82.4	67.0	72.1
87.5°	36.1	51.5	51.5	56.7	61.8	61.8	61.8	56.7	46.4	41.2	41.2
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: P533801

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1	13171.1
2.5°	14392.3	14804.6	14789.1	14799.4	14737.6	14320.2	14119.2	13609.1	13753.4	13691.5
5°	14943.7	15350.8	15701.2	15660.0	15185.9	14619.1	13779.1	12985.6	12769.1	12449.7
7.5°	14392.3	15371.4	15696.0	15649.7	14948.9	14222.3	12882.5	12088.9	11712.8	11501.5
10°	13516.3	14650.0	15051.9	15134.4	14660.3	13557.6	12326.0	11053.2	10852.2	10486.4
12.5°	13016.5	13841.0	14088.3	14309.9	14145.0	13320.5	11903.4	10682.2	10403.9	10161.7
15°	12609.4	13098.9	13202.0	13454.5	13552.4	13109.2	12125.0	11084.1	10398.8	10373.0
17.5°	12985.6	12784.6	12408.4	12485.7	12794.9	13114.4	12697.0	11877.7	11212.9	11130.5
20°	13609.1	12722.8	11872.5	12063.2	12320.8	13299.9	13562.7	12985.6	12604.2	12393.0
22.5°	14325.4	12831.0	11702.5	11795.2	12284.8	13717.3	14964.3	14644.8	13933.7	13629.7
25°	15649.7	13129.9	11836.4	11898.3	12568.2	14299.6	16232.0	16469.0	16046.5	15984.6
27.5°	16943.1	13902.8	12130.2	11991.0	12712.5	14866.4	16999.8	18272.6	17530.5	17386.2
30°	17602.7	14531.5	12568.2	12331.1	13310.2	15211.7	17463.5	19447.4	18798.2	18731.2
32.5°	18612.6	15103.5	12908.3	12604.2	13645.2	15639.4	18329.2	20730.5	20101.9	19766.9
35°	19035.2	15727.0	13655.5	13299.9	14603.6	16237.1	18772.4	21874.5	21678.7	21354.0
37.5°	19849.4	16396.9	14536.6	14516.0	15763.0	17015.2	19571.1	23430.7	23394.6	22833.0
40°	19916.4	17128.6	15927.9	16577.2	17556.3	18370.5	20271.9	23863.6	24451.0	24069.7
42.5°	20019.4	18411.7	18334.4	18870.3	19710.2	19535.0	20297.7	23966.6	24863.2	24636.5
45°	20065.8	19694.8	20782.1	21771.4	22121.8	21060.3	20055.5	23770.8	25079.7	24512.8
47.5°	19694.8	20797.5	22760.8	24672.6	24775.6	21998.2	19952.4	23569.8	25208.5	24832.3
50°	19746.3	21488.0	24471.6	26182.4	25806.2	22827.8	19792.7	23446.2	25141.5	24889.0
52°	19622.6	21503.5	24713.8	26151.5	25888.7	22369.2	19519.6	22972.1	25079.7	25260.0
52.5°	19761.8	21410.7	24461.3	26172.1	25832.0	22595.9	19483.5	23234.9	25115.7	24749.9
55°	19282.5	20308.0	22982.4	23709.0	23657.4	20509.0	18375.6	22364.0	24172.7	24177.9
57.5°	17427.5	17602.7	18025.2	18009.7	17772.7	16123.7	15716.7	20565.6	21549.9	21013.9
60°	15356.0	12887.7	11748.8	11285.1	11022.3	10754.3	13902.8	18813.6	18906.4	18679.6
62.5°	13269.0	8935.3	7420.3	7291.5	7353.3	8332.4	13439.0	18118.0	17561.4	17071.9
65°	10707.9	6513.4	5390.0	5220.0	5822.9	6879.3	10878.0	13892.5	13037.1	12630.0
67.5°	6724.7	4751.1	3643.2	3323.7	4050.3	4735.6	7147.2	8729.2	7770.7	7209.1
70°	3988.4	2653.8	1649.0	1478.9	1664.4	2525.0	4003.9	4354.3	3601.9	3313.4
72.5°	1571.7	973.9	458.6	391.6	407.1	886.3	1473.8	1437.7	1087.3	968.8
75°	422.5	293.7	159.7	128.8	108.2	164.9	237.0	154.6	56.7	72.1
77.5°	195.8	175.2	139.1	108.2	82.4	61.8	30.9	10.3	10.3	5.2
80°	170.0	149.4	128.8	108.2	82.4	51.5	25.8	5.2	5.2	5.2
82.5°	159.7	139.1	118.5	97.9	77.3	51.5	25.8	5.2	0.0	0.0
85°	67.0	87.6	97.9	92.8	82.4	51.5	25.8	5.2	0.0	0.0
87.5°	36.1	30.9	25.8	20.6	15.5	10.3	10.3	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

(END OF REPORT)