

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: P957376

Luminaire Tested: **GALN-SB9D-730-U-SLL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957376
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-730-U-SLL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70738 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 658
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

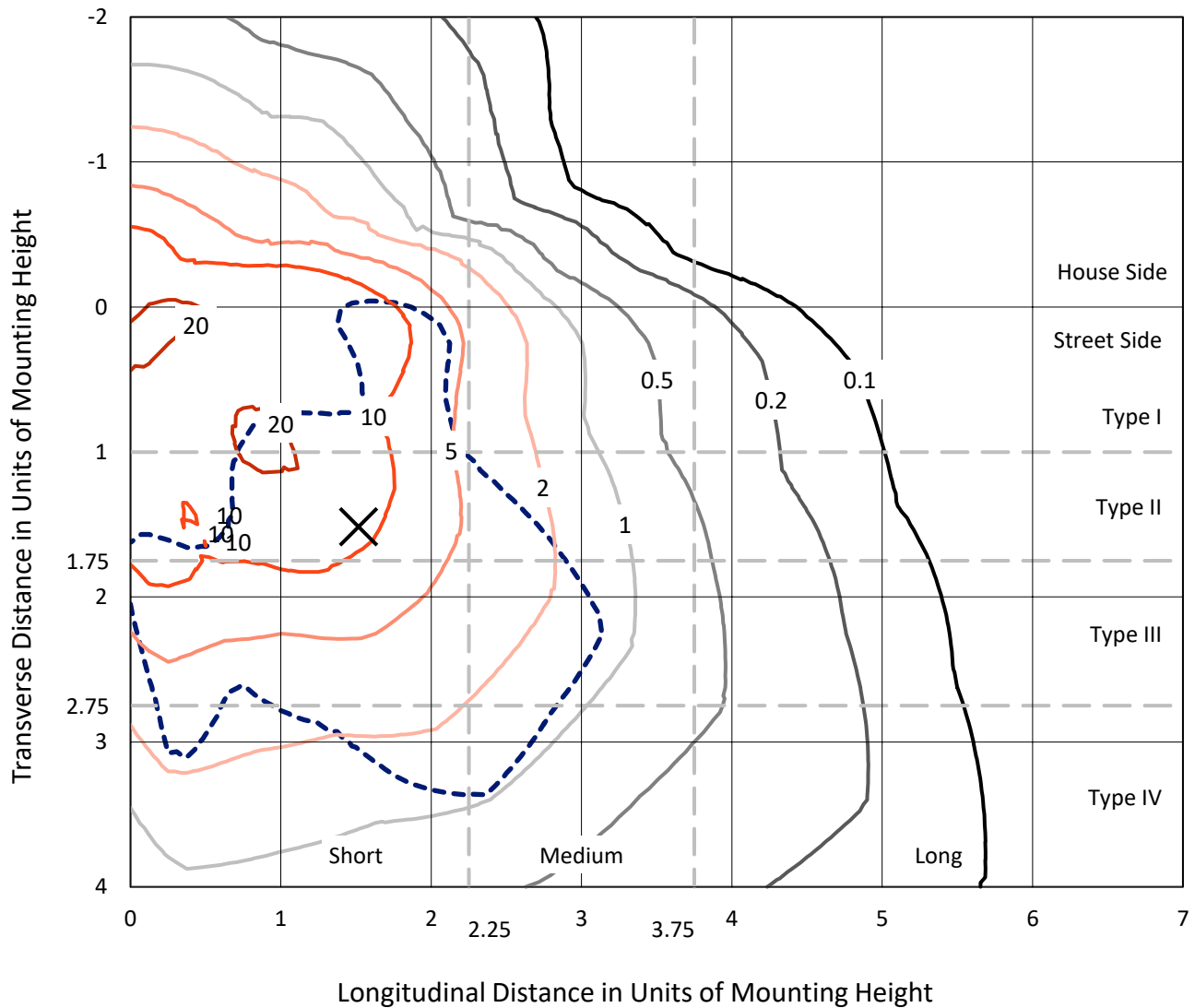


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Iso-Footcandle Lines of Horizontal Illumination

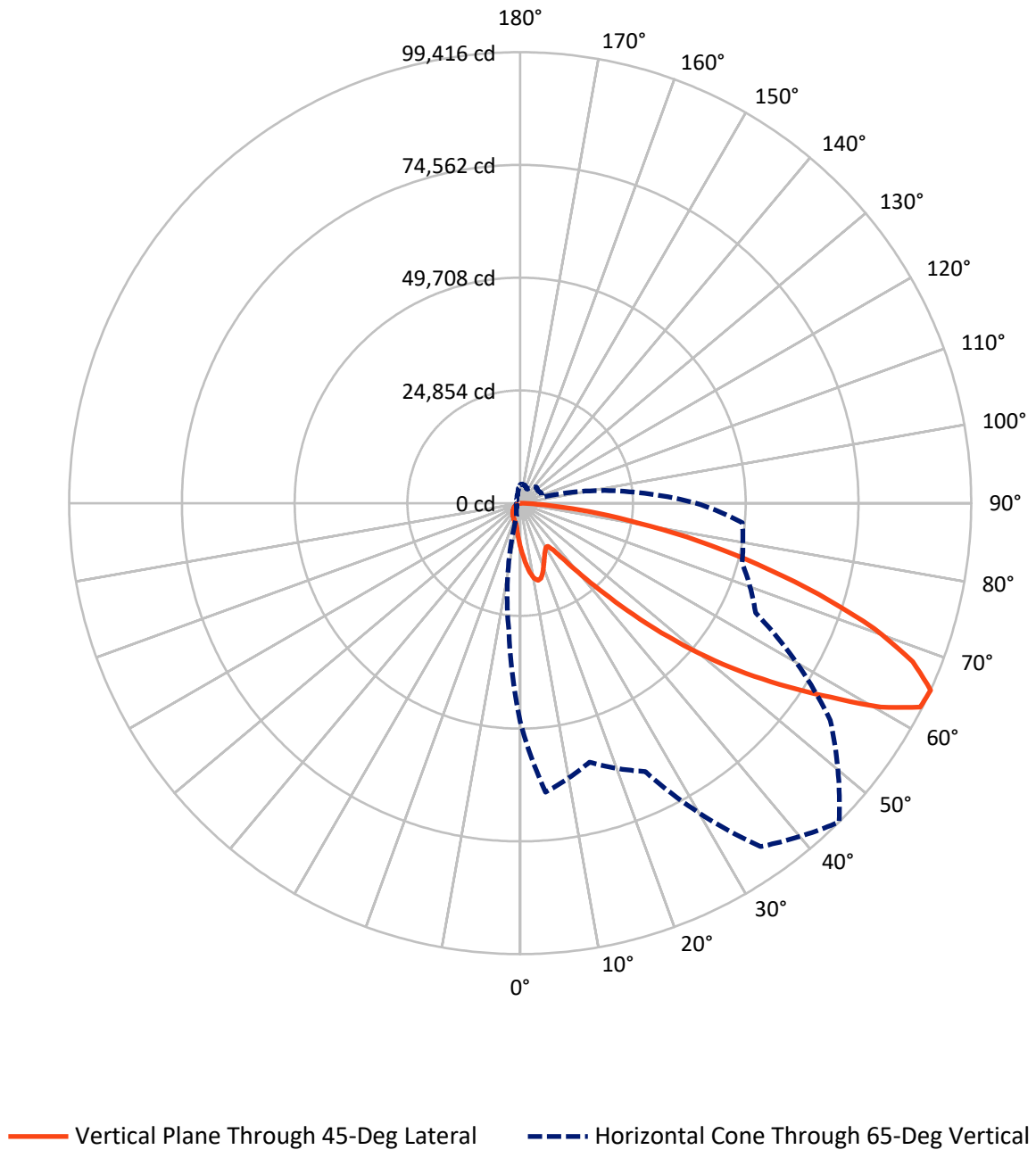
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.7 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	14060.5	0.0	14060.5
	% Fixture	19.9	0.0	19.9
Street Side	Lumens	56677.5	0.0	56677.5
	% Fixture	80.1	0.0	80.1
Total	Lumens	70738.0	0.0	70738.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	964.4	1.4
10°-20°	2890.8	4.1
20°-30°	4258.8	6.0
30°-40°	5471.4	7.7
40°-50°	8848.8	12.5
50°-60°	15517.2	21.9
60°-70°	19416.3	27.4
70°-80°	11346.0	16.0
80°-90°	2024.3	2.9
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°	70738.0	100.0
0°-180°	70738.0	100.0

Coefficient of Utilization



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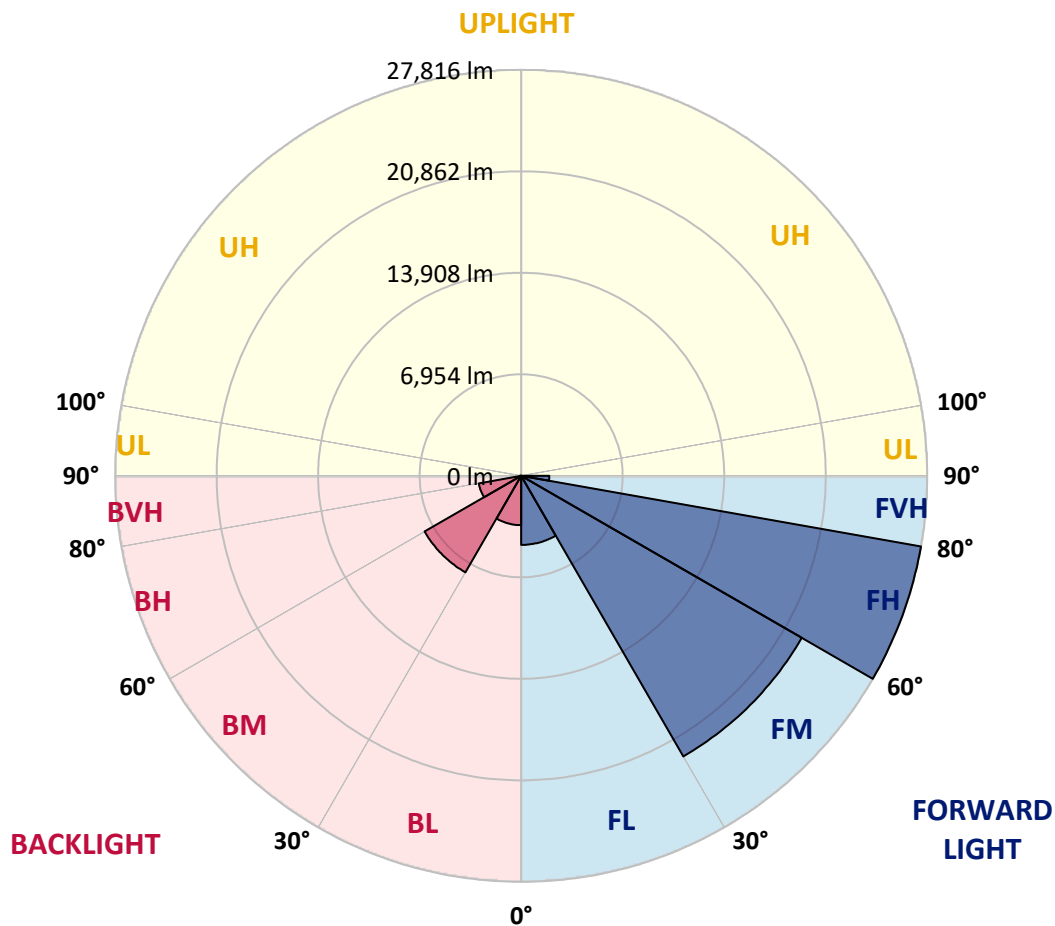
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4733.2	6.7			
FM	(30°-60°)	22198.4	31.4			
FH	(60°-80°)	27816.4	39.3			G5
FVH	(80°-90°)	1929.4	2.7			G5
BL	(0°-30°)	3380.7	4.8	B4/5000		
BM	(30°-60°)	7639.0	10.8	B4/8500		
BH	(60°-80°)	2945.9	4.2	B4/5000		G4/5000
BVH	(80°-90°)	94.9	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9
2.5°	10974.2	11057.1	11242.3	11339.7	11490.8	11500.5	11500.5	11369.0	11364.1	11096.1
5°	12265.6	12460.5	12899.1	13352.3	13449.8	13474.1	13425.4	13162.3	12967.3	12445.9
7.5°	13547.2	13922.5	14590.1	15194.4	15389.3	15389.3	15272.3	14843.5	14443.9	13688.6
10°	14609.6	15082.3	15988.7	16666.0	16890.2	16841.5	16602.7	16061.8	15511.1	14595.0
12.5°	15311.3	15842.5	16836.6	17382.4	17611.4	17484.7	17211.8	16685.5	16105.6	15140.8
15°	15662.2	16217.7	17080.2	17367.8	17304.4	17172.8	17138.7	16885.3	16446.7	15545.2
17.5°	15813.2	16329.8	16929.2	16748.9	16212.8	16110.5	16451.6	16773.2	16666.0	15896.1
20°	15954.6	16388.3	16568.6	15769.4	14833.7	14741.2	15394.2	16310.3	16778.1	16222.6
22.5°	16149.5	16417.5	16047.1	14736.3	13727.5	13513.1	14234.4	15613.4	16812.2	16636.8
25°	16417.5	16490.6	15472.1	13756.8	12743.2	12528.8	13201.3	14838.6	16753.7	17085.1
27.5°	16739.1	16588.1	14921.5	12938.1	11958.6	11758.8	12431.3	14093.0	16588.1	17533.4
30°	17158.2	16714.8	14375.7	12304.6	11398.2	11252.0	11900.1	13449.8	16383.4	18103.6
32.5°	17582.2	16768.4	13868.9	11934.2	11271.5	11325.1	11856.3	13103.8	16159.2	18649.4
35°	18040.3	16938.9	13620.3	12299.7	12329.0	12796.8	13016.1	13425.4	16125.1	19390.1
37.5°	18664.0	17319.0	13917.6	14117.4	15131.0	16100.8	15920.4	14999.4	16519.8	20496.3
40°	19560.7	17986.6	15213.8	17211.8	19292.6	20866.7	20179.5	17859.9	17728.4	22089.8
42.5°	20866.7	19049.0	17514.0	20993.4	24521.5	27114.0	25271.9	21548.9	19843.3	24365.5
45°	22796.4	20769.2	20296.5	24984.4	30968.6	35052.3	31222.0	25481.5	22806.2	27810.8
47.5°	25471.7	23298.3	22903.6	29189.9	38804.6	44087.0	37820.2	29126.6	26178.3	32508.5
50°	29024.2	26704.6	25374.3	33790.1	47395.9	53297.2	44413.5	32645.0	30042.7	38249.0
52.5°	33712.2	31455.9	28254.3	38171.1	56230.8	62312.4	51036.1	35734.5	34837.9	44910.6
55°	40105.7	38604.8	32191.8	42352.2	65060.9	71381.3	57400.4	38648.6	41172.9	52824.5
57.5°	48039.1	49111.2	37868.9	47200.9	72999.2	80727.9	63793.9	42722.5	49398.7	61674.1
60°	53155.9	63082.4	48740.8	54369.3	82019.3	91297.7	72555.7	50470.8	58043.6	64846.5
62.5°	51918.1	67526.7	61761.8	63521.0	90313.3	98982.6	81142.1	58253.1	59671.2	60173.2
65°	48122.0	63940.1	59105.9	65299.7	92413.6	99416.3	83437.4	57249.3	50617.0	49125.8
67.5°	42898.0	59685.8	52795.3	60582.5	88617.5	93354.2	79163.7	50641.4	39116.4	36865.1
70°	37259.8	54978.4	48653.1	55290.3	81380.9	82789.3	71897.9	44540.2	28770.8	24896.7
72.5°	31909.1	50076.1	45817.0	49866.5	71727.3	68813.2	62439.1	39145.7	20949.5	17957.4
75°	26436.6	42844.4	41777.2	43424.3	59032.8	54203.6	51879.1	32411.0	16441.9	12991.7
77.5°	20398.8	33478.3	35934.3	34774.5	41553.0	40261.6	40212.9	24355.8	12012.2	8669.3
80°	13961.5	23332.4	28074.0	24531.2	26967.8	26309.9	30286.4	16339.5	8713.1	5219.1
82.5°	8206.3	14205.1	19541.2	11875.8	14911.7	15306.4	18035.4	7948.0	5126.5	1203.7
85°	3328.3	5608.9	7641.0	4648.9	7192.7	6067.0	6846.7	2231.9	1427.8	29.2
87.5°	838.2	1793.3	1257.3	521.4	833.3	765.1	604.3	272.9	58.5	0.0
90°	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°
9794.9	0°	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9
11066.8	2.5°	10876.8	10764.7	10486.9	10209.2	9985.0	9682.9	9483.1	9244.3	9015.3	8810.6
12333.8	5°	12026.8	11656.5	11149.7	10686.7	10214.0	9756.0	9302.8	8825.2	8386.6	8118.6
13405.9	7.5°	12962.5	12309.5	11637.0	11047.3	10477.2	9941.1	9341.8	8761.9	8074.7	7709.3
14224.6	10°	13659.3	12801.7	11919.6	11242.3	10667.2	10145.8	9639.0	9054.2	8225.8	7767.7
14721.7	12.5°	14117.4	13098.9	12065.8	11291.0	10647.7	10243.3	10019.1	9790.1	8966.5	8430.5
15087.1	15°	14434.1	13308.5	12168.2	11178.9	10389.5	10092.2	10316.4	10579.5	10053.2	9434.3
15467.2	17.5°	14780.1	13581.4	12212.0	10876.8	9887.5	9760.8	10340.7	10949.9	10925.5	10311.5
15827.9	20°	15145.6	13820.1	12182.8	10389.5	9278.4	9390.5	10131.2	10837.8	11135.1	10803.7
16242.1	22.5°	15520.9	14049.2	12070.7	9756.0	8708.2	9059.1	9799.8	10418.7	10769.6	10667.2
16748.9	25°	15993.5	14370.8	11905.0	9073.7	8235.6	8722.9	9414.8	9916.8	10160.4	10155.6
17294.7	27.5°	16558.8	14799.6	11817.3	8523.1	7899.3	8342.8	8956.8	9405.1	9575.7	9575.7
17972.0	30°	17216.7	15306.4	11719.8	8162.5	7704.4	7948.0	8425.6	8864.2	9034.7	9034.7
18712.7	32.5°	17947.7	15793.7	11485.9	7943.2	7558.2	7563.1	7865.2	8264.8	8469.5	8498.7
19638.6	35°	18824.8	16315.2	10974.2	7767.7	7387.6	7187.8	7334.0	7665.4	7909.1	7972.4
20959.2	37.5°	19974.9	16953.5	10243.3	7509.5	7124.5	6793.1	6827.2	7080.6	7348.6	7446.1
22781.8	40°	21519.7	17704.0	9483.1	7139.1	6754.1	6359.4	6344.8	6530.0	6793.1	6900.3
25247.6	42.5°	23561.5	18605.5	8757.0	6783.4	6305.8	5901.3	5877.0	6023.2	6252.2	6364.3
28502.8	45°	26173.5	19711.7	8133.2	6505.6	5867.2	5467.6	5457.9	5579.7	5779.5	5896.5
32669.3	47.5°	29803.9	20817.9	7709.3	6359.4	5521.2	5111.9	5131.4	5238.6	5418.9	5501.7
38063.9	50°	34535.7	21154.2	7494.8	6359.4	5336.1	4795.1	4892.6	4980.3	5116.8	5165.5
44530.5	52.5°	39077.5	20043.1	7299.9	6398.4	5360.4	4527.1	4736.7	4800.0	4917.0	4936.5
50524.4	55°	41304.5	17231.3	7031.9	6408.1	5511.5	4298.1	4610.0	4726.9	4770.8	4765.9
54003.8	57.5°	40539.4	13932.2	6578.7	6369.2	5613.8	4151.9	4454.0	4678.2	4707.4	4663.6
53341.1	60°	37854.3	10257.9	6232.7	6081.6	5574.8	4108.0	4215.2	4571.0	4614.8	4556.4
48234.0	62.5°	33351.6	7119.6	5964.7	5448.1	5404.3	4093.4	3840.0	4337.1	4444.3	4361.4
38770.5	65°	26256.3	5029.0	5136.3	4775.6	5033.9	4015.4	3450.2	4054.4	4200.6	4073.9
28127.6	67.5°	17767.4	3630.5	4161.6	4327.3	4434.5	3840.0	3167.5	3732.8	3927.7	3762.0
18050.0	70°	9595.2	2548.6	2748.4	3645.1	3766.9	3537.9	2914.1	3406.3	3630.5	3450.2
12830.9	72.5°	5667.4	1832.3	1924.9	2928.7	3138.3	3113.9	2631.5	3026.2	3299.1	3084.7
8854.4	75°	3123.7	1237.8	1374.2	2124.7	2548.6	2402.4	2261.1	2563.3	2841.0	2631.5
5550.5	77.5°	1398.6	740.7	955.1	1393.7	2002.8	1647.1	1749.4	1998.0	2256.2	2037.0
3089.6	80°	540.9	414.2	633.5	760.2	1457.1	911.3	1125.7	1471.7	1656.9	1481.4
672.5	82.5°	68.2	185.2	272.9	297.3	847.9	482.4	653.0	925.9	911.3	789.4
0.0	85°	0.0	34.1	39.0	19.5	365.5	175.4	214.4	302.1	282.6	214.4
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	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

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CANDELA DISTRIBUTION (continued):

185°		195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
9794.9	0°	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9
8771.6	2.5°	8532.8	8357.4	8269.7	8196.6	8264.8	8303.8	8303.8	8469.5	8566.9	8605.9
7948.0	5°	7519.2	7192.7	6973.4	6841.8	6885.7	6934.4	6988.0	7197.6	7338.9	7431.5
7377.9	7.5°	6720.0	6223.0	5916.0	5755.1	5779.5	5813.6	5857.5	6062.1	6203.5	6325.3
7270.7	10°	6325.3	5623.6	5219.1	5024.2	4990.1	4970.6	4956.0	5077.8	5185.0	5282.5
7709.3	12.5°	6344.8	5365.3	4873.1	4634.3	4532.0	4415.0	4322.4	4341.9	4410.2	4532.0
8493.8	15°	6593.3	5282.5	4692.8	4395.5	4225.0	4088.5	3976.5	3952.1	3976.5	3995.9
9390.5	17.5°	6929.6	5272.7	4536.9	4166.5	3991.1	3879.0	3776.7	3742.5	3747.4	3771.8
9985.0	20°	7197.6	5243.5	4361.4	3947.2	3791.3	3693.8	3591.5	3557.4	3567.1	3572.0
10043.5	22.5°	7338.9	5199.6	4166.5	3727.9	3596.4	3498.9	3406.3	3401.4	3401.4	3430.7
9726.7	25°	7338.9	5107.0	3991.1	3518.4	3401.4	3313.7	3201.6	3221.1	3230.9	3269.9
9234.5	27.5°	7163.5	4931.6	3849.8	3338.1	3216.3	3128.5	3026.2	3050.6	3065.2	3109.0
8747.2	30°	6939.3	4722.0	3688.9	3167.5	3026.2	2962.9	2875.1	2884.9	2904.4	2953.1
8294.0	32.5°	6700.5	4473.5	3557.4	2997.0	2855.6	2806.9	2709.4	2724.1	2743.6	2797.2
7845.7	35°	6437.4	4181.1	3401.4	2841.0	2699.7	2660.7	2548.6	2558.4	2587.6	2646.1
7363.3	37.5°	6159.6	3942.3	3245.5	2690.0	2543.8	2504.8	2387.8	2397.6	2431.7	2499.9
6856.5	40°	5886.7	3708.4	3079.8	2529.1	2383.0	2348.8	2222.1	2231.9	2270.9	2344.0
6344.8	42.5°	5589.5	3528.1	2865.4	2363.5	2207.5	2173.4	2056.5	2071.1	2114.9	2188.0
5872.1	45°	5233.7	3411.2	2626.6	2207.5	2032.1	1998.0	1890.8	1920.0	1968.7	2041.8
5467.6	47.5°	4868.2	3362.4	2426.8	2041.8	1851.8	1822.5	1734.8	1783.6	1837.2	1895.6
5121.6	50°	4517.4	3299.1	2222.1	1885.9	1695.8	1666.6	1608.1	1671.5	1725.1	1778.7
4873.1	52.5°	4117.8	3162.6	2037.0	1749.4	1564.3	1554.5	1525.3	1583.8	1632.5	1681.2
4658.7	55°	3703.6	2943.4	1876.1	1627.6	1452.2	1461.9	1447.3	1496.0	1535.0	1578.9
4463.8	57.5°	3343.0	2665.6	1749.4	1496.0	1354.7	1384.0	1364.5	1388.8	1413.2	1466.8
4229.9	60°	2977.5	2334.2	1608.1	1340.1	1257.3	1291.4	1237.8	1232.9	1242.6	1257.3
3883.9	62.5°	2485.3	1988.2	1432.7	1203.7	1150.1	1164.7	1062.3	984.4	984.4	999.0
3401.4	65°	1998.0	1666.6	1237.8	1047.7	1003.9	994.1	847.9	740.7	731.0	774.8
2841.0	67.5°	1642.2	1384.0	1042.8	872.3	843.0	852.8	745.6	638.4	628.6	677.4
2314.7	70°	1359.6	1115.9	833.3	672.5	701.7	745.6	638.4	536.0	521.4	565.3
1881.0	72.5°	1081.8	872.3	638.4	497.1	579.9	633.5	521.4	424.0	414.2	453.2
1452.2	75°	794.3	623.8	433.7	360.6	448.3	497.1	380.1	302.1	287.5	321.6
969.7	77.5°	492.2	350.9	272.9	214.4	307.0	331.4	199.8	175.4	170.6	194.9
589.6	80°	229.0	151.1	131.6	73.1	112.1	131.6	82.8	92.6	97.5	117.0
297.3	82.5°	63.4	24.4	4.9	0.0	0.0	39.0	19.5	39.0	48.7	73.1
24.4	85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.7	24.4	43.9
0.0	87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19.5
0.0	90°	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°	360°
9794.9	0°	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9	9794.9
8878.8	2.5°	9083.5	9278.4	9590.3	9911.9	10228.7	10550.3	10862.2	10974.2
7855.5	5°	8240.4	8688.8	9307.6	9970.4	10652.6	11344.6	11978.1	12265.6
6798.0	7.5°	7299.9	7943.2	8873.9	9911.9	10998.6	12085.3	13084.3	13547.2
5750.3	10°	6296.1	7109.9	8172.2	9575.7	11135.1	12636.0	14010.2	14609.6
4829.3	12.5°	5340.9	6193.7	7368.1	9049.4	11027.8	12952.7	14604.7	15311.3
4181.1	15°	4541.7	5297.1	6564.1	8425.6	10681.9	12972.2	14887.3	15662.2
3820.5	17.5°	3942.3	4434.5	5745.4	7733.6	10228.7	12791.9	14984.8	15813.2
3625.6	20°	3645.1	3781.5	4683.1	6846.7	9804.7	12621.4	15082.3	15954.6
3469.7	22.5°	3469.7	3503.8	3830.3	5701.5	9297.9	12567.7	15252.8	16149.5
3328.3	25°	3328.3	3338.1	3425.8	4517.4	8523.1	12533.6	15516.0	16417.5
3182.1	27.5°	3187.0	3187.0	3235.7	3640.2	7470.5	12387.4	15857.1	16739.1
3035.9	30°	3045.7	3045.7	3079.8	3221.1	6237.6	12099.9	16266.4	17158.2
2889.8	32.5°	2899.5	2899.5	2928.7	3031.1	4980.3	11739.3	16641.7	17582.2
2738.7	35°	2753.3	2743.6	2782.5	2889.8	3961.8	11281.2	17016.9	18040.3
2587.6	37.5°	2597.4	2592.5	2631.5	2753.3	3420.9	10750.1	17299.5	18664.0
2436.6	40°	2431.7	2431.7	2475.5	2607.1	3265.0	10082.5	17747.9	19560.7
2280.6	42.5°	2280.6	2270.9	2319.6	2480.4	3148.0	9444.1	18551.9	20866.7
2139.3	45°	2134.4	2114.9	2158.8	2358.6	2943.4	9219.9	20052.8	22796.4
2002.8	47.5°	1998.0	1949.2	1988.2	2212.4	2758.2	10058.1	22508.9	25471.7
1881.0	50°	1885.9	1793.3	1827.4	2066.2	2616.9	11875.8	25695.9	29024.2
1768.9	52.5°	1768.9	1647.1	1666.6	1885.9	2490.2	13605.7	29150.9	33712.2
1656.9	55°	1647.1	1510.7	1520.4	1705.6	2309.9	13864.0	32523.1	40105.7
1530.2	57.5°	1510.7	1384.0	1384.0	1539.9	2178.3	12017.1	35115.6	48039.1
1374.2	60°	1359.6	1276.8	1252.4	1408.3	2295.2	8479.2	35417.8	53155.9
1174.4	62.5°	1193.9	1150.1	1115.9	1281.6	2383.0	5024.2	32986.1	51918.1
925.9	65°	1003.9	994.1	969.7	1408.3	2007.7	2967.7	28317.6	48122.0
789.4	67.5°	843.0	828.4	828.4	1476.6	1525.3	1866.4	22123.9	42898.0
672.5	70°	726.1	672.5	672.5	1115.9	925.9	1291.4	15447.8	37259.8
555.5	72.5°	609.1	550.7	511.7	891.8	692.0	945.4	9653.6	31909.1
424.0	75°	487.3	443.5	394.7	589.6	516.5	716.3	5608.9	26436.6
268.0	77.5°	350.9	331.4	277.8	433.7	375.2	516.5	3338.1	20398.8
165.7	80°	180.3	185.2	175.4	248.5	253.4	350.9	1900.5	13961.5
107.2	82.5°	107.2	82.8	92.6	121.8	146.2	199.8	716.3	8206.3
78.0	85°	68.2	43.9	43.9	58.5	73.1	78.0	219.3	3328.3
39.0	87.5°	34.1	14.6	19.5	29.2	24.4	19.5	9.7	838.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)