

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: P950902

Luminaire Tested: **GALN-SB5B-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950902
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5B-722-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23898 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 182.7
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

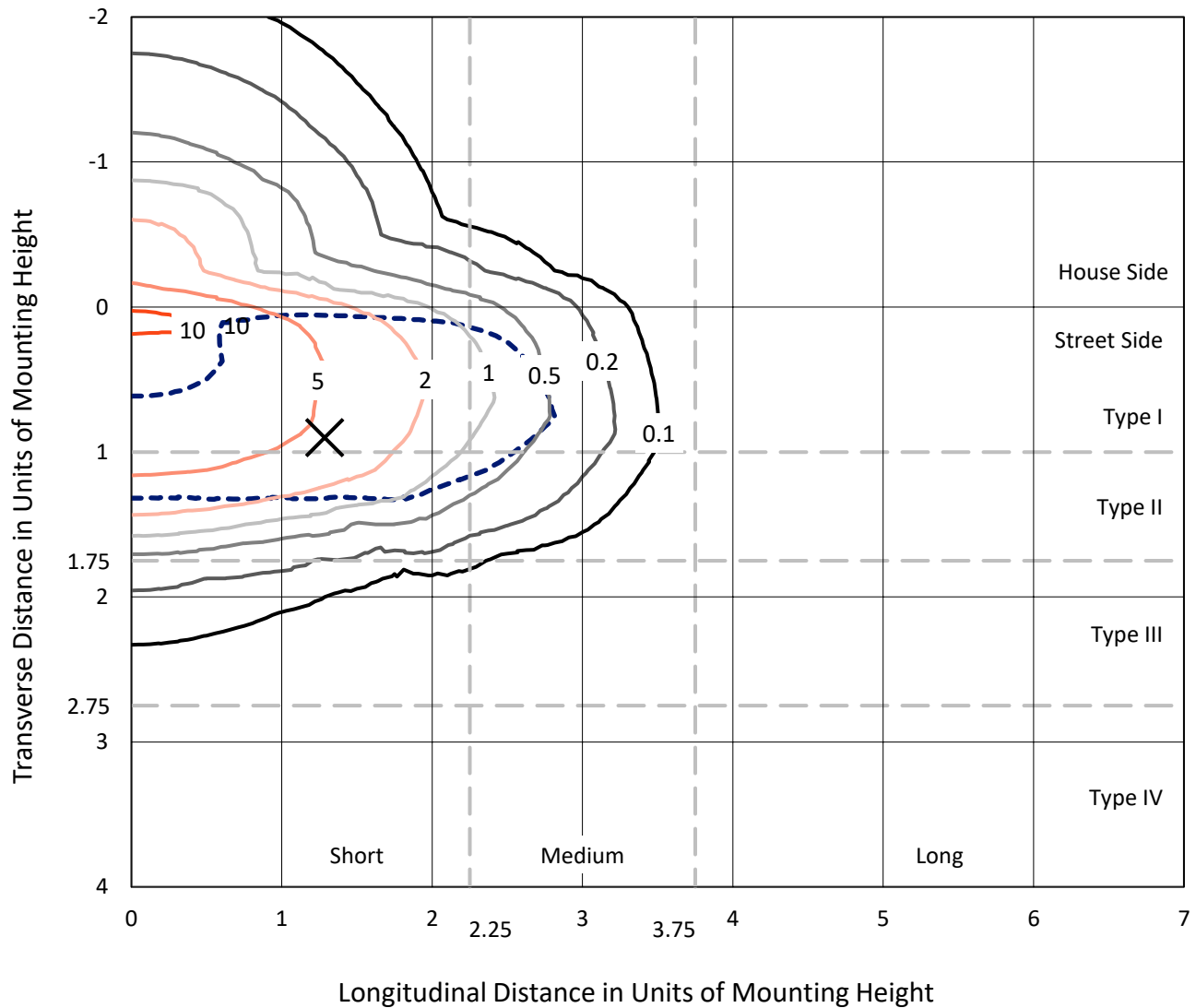


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

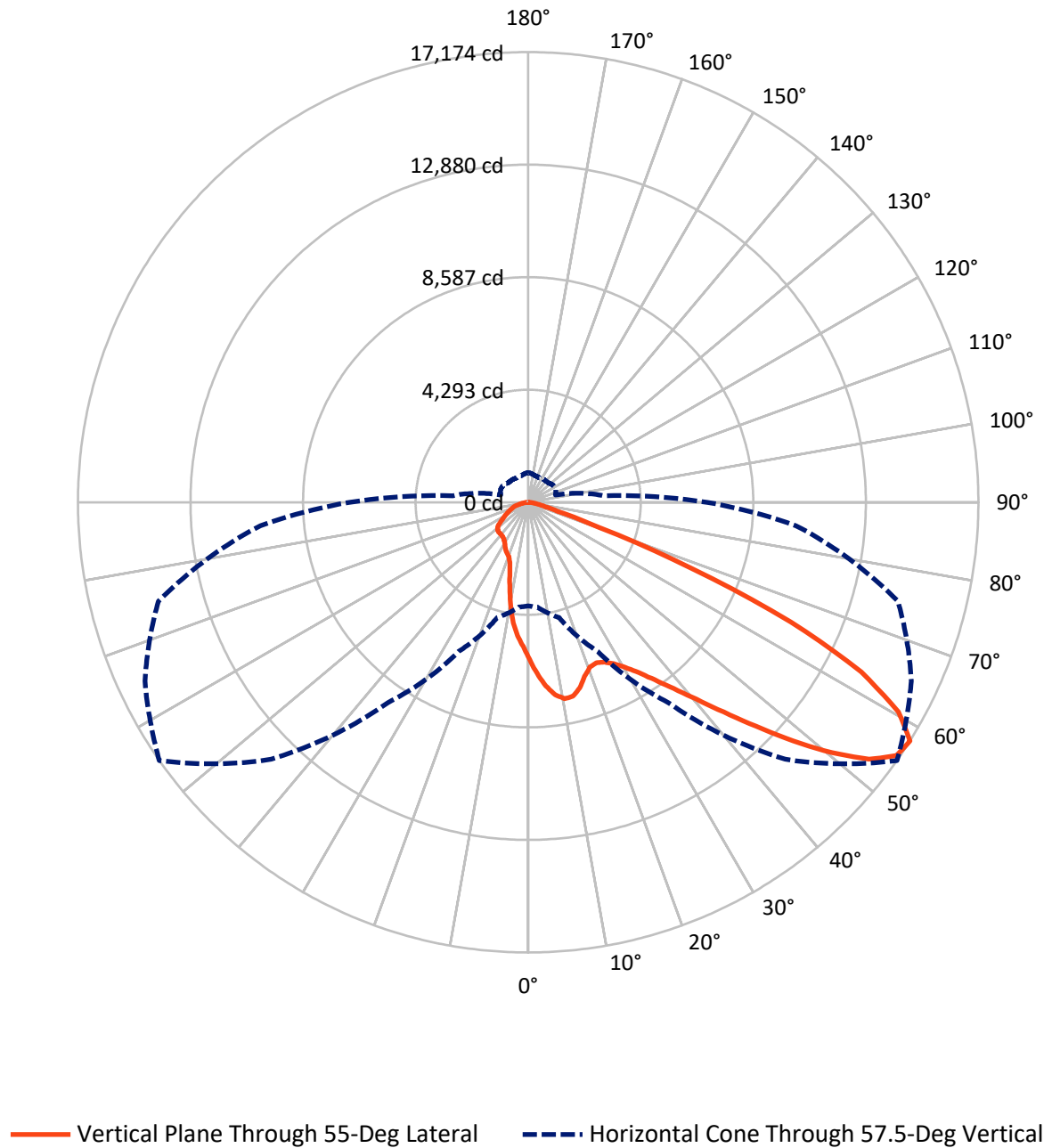


Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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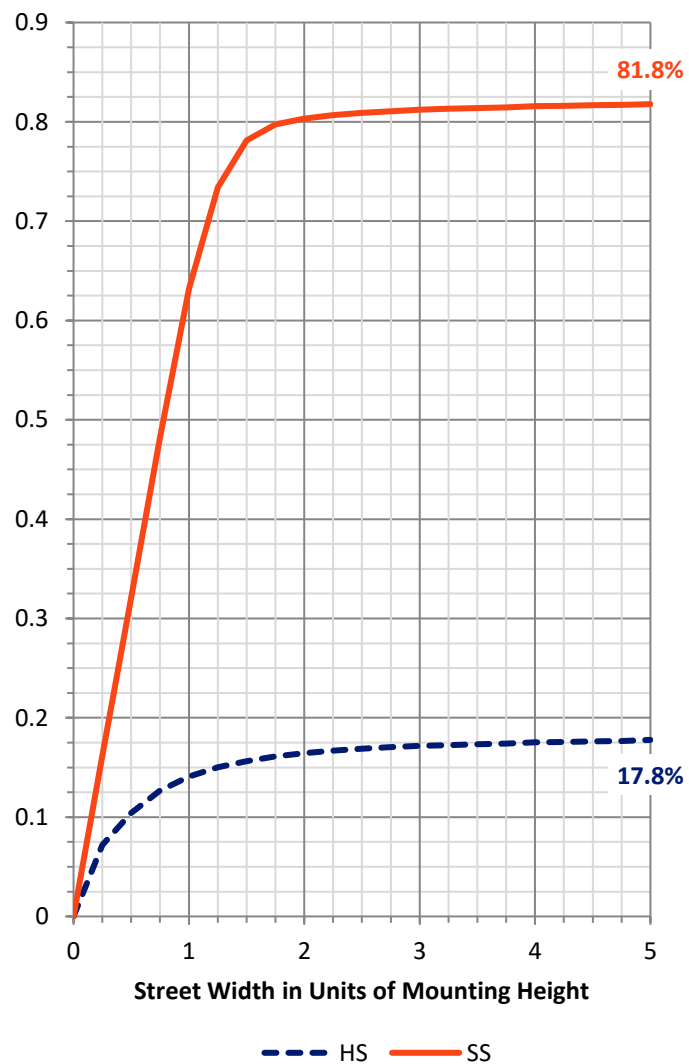
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4324.2	0.0	4324.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	19573.8	0.0	19573.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	23898.0	0.0	23898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	555.7	2.3
10°-20°	1402.5	5.9
20°-30°	2238.0	9.4
30°-40°	3543.3	14.8
40°-50°	5423.4	22.7
50°-60°	5809.0	24.3
60°-70°	3654.4	15.3
70°-80°	1080.7	4.5
80°-90°	191.1	0.8
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°	23898.0	100.0
0°-180°	23898.0	100.0

Coefficient of Utilization



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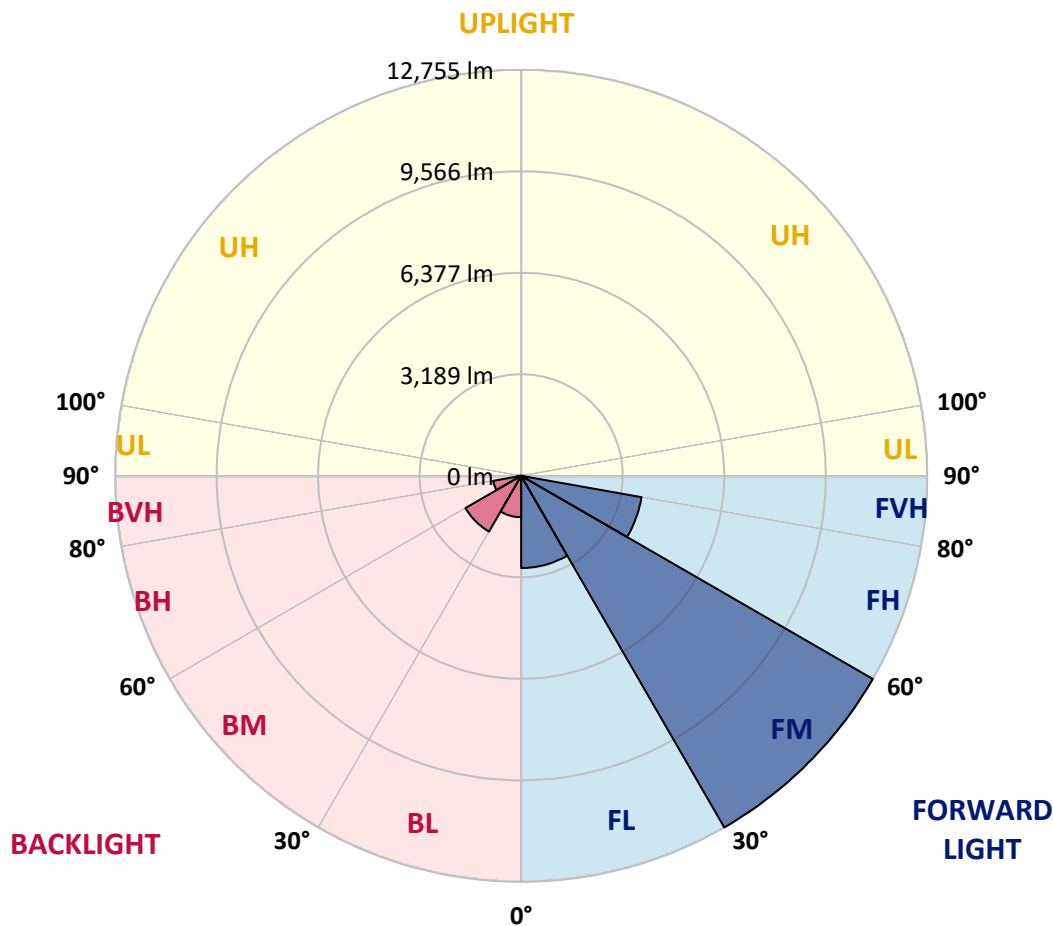
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2896.4	12.1			
FM	(30°-60°)	12754.5	53.4			
FH	(60°-80°)	3842.1	16.1			G2/5000
FVH	(80°-90°)	80.7	0.3			G1/100
BL	(0°-30°)	1299.7	5.4	B3/2500		
BM	(30°-60°)	2021.1	8.5	B2/2500		
BH	(60°-80°)	893.1	3.7	B2/1000		G2/1000
BVH	(80°-90°)	110.3	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1
2.5°	6870.2	6865.2	6892.4	6799.7	6736.7	6651.5	6539.1	6395.8	6241.3	6078.2	6007.8
5°	7489.1	7445.9	7474.3	7405.1	7335.9	7207.4	7040.6	6807.1	6521.8	6196.8	6023.9
7.5°	7391.5	7361.8	7434.7	7496.5	7548.4	7532.3	7410.0	7165.4	6797.3	6325.3	6074.5
10°	6604.5	6571.2	6673.7	6887.4	7201.2	7474.3	7622.5	7470.6	7078.9	6466.2	6124.0
12.5°	5910.2	5894.2	5962.1	6135.1	6483.5	7007.3	7595.3	7737.4	7371.7	6633.0	6190.7
15°	5613.7	5594.0	5637.2	5724.9	5947.3	6435.3	7348.3	7920.3	7659.6	6825.7	6296.9
17.5°	5548.3	5526.0	5544.5	5590.3	5733.6	6105.4	6975.2	8010.4	7959.8	7040.6	6385.9
20°	5669.3	5650.8	5653.3	5650.8	5750.9	6046.1	6715.7	7975.8	8221.7	7238.3	6472.3
22.5°	5962.1	5931.2	5932.5	5867.0	5921.4	6149.9	6647.8	7883.2	8455.2	7411.3	6537.8
25°	6439.0	6383.4	6394.5	6227.7	6212.9	6382.2	6754.0	7811.5	8687.4	7549.6	6550.2
27.5°	7091.3	7028.3	6994.9	6746.6	6628.0	6712.0	6970.2	7836.2	8907.4	7669.5	6519.3
30°	7906.7	7830.1	7762.1	7410.0	7195.1	7164.2	7306.3	7999.3	9166.8	7795.5	6466.2
32.5°	8906.1	8817.2	8693.6	8226.6	7924.0	7762.1	7741.1	8289.6	9470.7	7956.1	6439.0
35°	10095.8	9979.7	9804.3	9200.1	8817.2	8486.1	8314.4	8708.4	9887.0	8198.2	6469.9
37.5°	11321.4	11190.4	11029.8	10310.8	9840.1	9352.1	9013.6	9276.7	10441.7	8526.8	6551.4
40°	12451.8	12304.7	12155.3	11515.3	11010.0	10422.0	9869.7	9995.8	11120.0	8919.7	6689.8
42.5°	13118.9	13010.2	12953.3	12607.4	12217.0	11620.3	10934.7	10848.2	11882.2	9371.9	6847.9
45°	13089.2	13044.8	13220.2	13363.5	13270.8	12939.8	12182.4	11790.8	12647.0	9763.5	6993.7
47.5°	12390.0	12419.6	12811.3	13616.8	13971.3	14144.3	13603.2	12716.1	13311.6	10056.3	7059.2
50°	10487.4	10512.2	11419.0	13155.9	14151.7	15126.4	15012.8	13619.2	13826.8	10235.4	7044.3
52.5°	8981.5	8997.5	9386.7	11789.6	13556.2	15620.6	16282.8	14470.4	14203.6	10284.8	6961.6
55°	6765.1	6820.7	7256.8	9249.6	12007.0	15229.0	17056.2	15347.6	14442.0	10289.8	6875.1
57.5°	3952.1	4012.6	4551.3	6278.4	9332.3	13863.8	17173.5	16125.9	14603.9	10250.2	6823.2
60°	1935.9	1961.8	2196.6	3299.8	5754.6	11233.6	16229.7	16502.7	14694.0	10229.2	6820.7
62.5°	1304.6	1300.9	1310.8	1628.3	2835.3	7217.3	14262.9	15843.0	14645.9	10148.9	6796.0
65°	1121.8	1108.2	1071.1	1142.8	1468.9	3301.0	11019.9	13873.7	14278.9	9947.6	6626.8
67.5°	969.8	971.0	972.3	950.0	1048.9	1523.3	6734.3	10928.5	12962.0	8993.8	5974.5
70°	803.0	814.1	819.1	819.1	854.9	999.5	2874.8	7490.3	10224.3	7051.8	4811.9
72.5°	731.4	707.9	710.4	698.0	698.0	761.0	1157.6	4246.1	6441.5	3966.9	2936.6
75°	596.7	611.5	614.0	605.4	576.9	580.6	686.9	1781.5	2756.2	1645.6	1451.6
77.5°	515.2	515.2	520.1	513.9	491.7	434.9	458.3	690.6	937.7	674.5	725.2
80°	413.9	412.6	433.6	446.0	411.4	321.2	292.8	381.7	416.3	296.5	376.8
82.5°	201.4	213.7	297.7	339.7	312.6	232.3	179.1	237.2	222.4	131.0	169.3
85°	117.4	111.2	133.4	189.0	179.1	128.5	86.5	123.5	116.1	66.7	67.9
87.5°	37.1	34.6	27.2	64.2	51.9	35.8	23.5	35.8	32.1	14.8	14.8
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1	5988.1
2.5°	5920.1	5774.3	5629.8	5497.6	5417.3	5365.4	5313.5	5255.5	5233.2	5199.9
5°	5860.8	5579.1	5328.4	5112.2	4915.7	4761.3	4605.6	4479.6	4422.8	4461.1
7.5°	5826.2	5418.5	5031.9	4635.3	4253.5	3948.4	3682.8	3496.2	3412.2	3433.2
10°	5795.3	5236.9	4647.6	4021.3	3472.8	3094.7	2822.9	2680.9	2627.7	2638.8
12.5°	5766.9	5033.1	4184.4	3360.3	2777.2	2527.7	2449.8	2451.1	2460.9	2468.4
15°	5762.0	4787.2	3666.7	2782.2	2401.6	2385.6	2469.6	2522.7	2551.1	2559.8
17.5°	5754.6	4493.2	3139.2	2388.1	2310.2	2418.9	2496.8	2531.4	2553.6	2554.8
20°	5724.9	4120.1	2652.4	2200.3	2290.5	2384.4	2432.5	2459.7	2478.2	2484.4
22.5°	5633.5	3705.0	2273.2	2116.3	2211.4	2286.8	2343.6	2374.5	2385.6	2393.0
25°	5469.2	3240.5	2011.3	2036.0	2101.4	2196.6	2242.3	2248.5	2244.8	2255.9
27.5°	5254.2	2742.6	1848.2	1927.2	2011.3	2092.8	2117.5	2113.8	2106.4	2118.7
30°	4994.8	2295.4	1744.4	1804.9	1919.8	1994.0	2016.2	2007.6	1992.7	2006.3
32.5°	4720.5	1929.7	1659.2	1719.7	1844.5	1917.4	1939.6	1931.0	1919.8	1931.0
35°	4464.8	1674.0	1580.1	1662.9	1785.2	1856.8	1885.2	1886.5	1886.5	1900.1
37.5°	4230.1	1524.5	1514.6	1627.0	1744.4	1808.6	1849.4	1851.9	1798.8	1802.5
40°	4012.6	1461.5	1485.0	1603.6	1704.9	1766.6	1769.1	1630.7	1533.2	1530.7
42.5°	3834.7	1449.1	1493.6	1601.1	1676.5	1678.9	1504.7	1397.3	1370.1	1371.3
45°	3668.0	1445.4	1513.4	1601.1	1634.5	1450.4	1333.0	1304.6	1307.1	1317.0
47.5°	3481.4	1430.6	1517.1	1578.9	1513.4	1289.8	1255.2	1242.8	1237.9	1240.4
50°	3277.6	1377.5	1470.1	1534.4	1305.8	1220.6	1177.4	1173.6	1179.8	1183.5
52.5°	3062.6	1291.0	1389.8	1454.1	1210.7	1160.1	1111.9	1120.5	1147.7	1156.3
55°	2921.8	1189.7	1283.6	1293.5	1144.0	1103.2	1062.5	1082.2	1132.9	1148.9
57.5°	2884.7	1082.2	1162.5	1151.4	1058.8	1053.8	1029.1	1046.4	1110.6	1134.1
60°	2873.6	985.9	1043.9	1035.3	976.0	999.5	993.3	1001.9	1024.2	1031.6
62.5°	2787.1	909.3	937.7	925.3	901.9	942.6	957.4	938.9	956.2	964.9
65°	2567.2	847.5	833.9	825.3	835.1	872.2	901.9	864.8	880.9	905.6
67.5°	2204.0	763.5	726.4	736.3	767.2	787.0	825.3	783.3	796.8	838.8
70°	1782.7	657.2	623.9	652.3	681.9	722.7	728.9	700.5	732.6	779.5
72.5°	1261.4	549.8	526.3	584.4	594.2	647.4	633.8	620.2	664.7	680.7
75°	874.7	443.5	429.9	474.4	510.2	555.9	546.1	562.1	656.0	663.4
77.5°	553.5	344.7	336.0	364.4	413.9	464.5	480.6	663.4	1120.5	1165.0
80°	321.2	257.0	247.1	269.3	312.6	359.5	463.3	814.1	738.8	730.1
82.5°	179.1	176.7	164.3	170.5	208.8	259.4	654.8	573.2	465.8	480.6
85°	84.0	103.8	88.9	85.2	117.4	303.9	437.3	327.4	217.4	212.5
87.5°	22.2	19.8	19.8	22.2	49.4	261.9	174.2	139.6	82.8	80.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)