

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: P948402

Luminaire Tested: **GALN-SB3C-722-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948402
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB3C-722-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15827 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 149.1
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



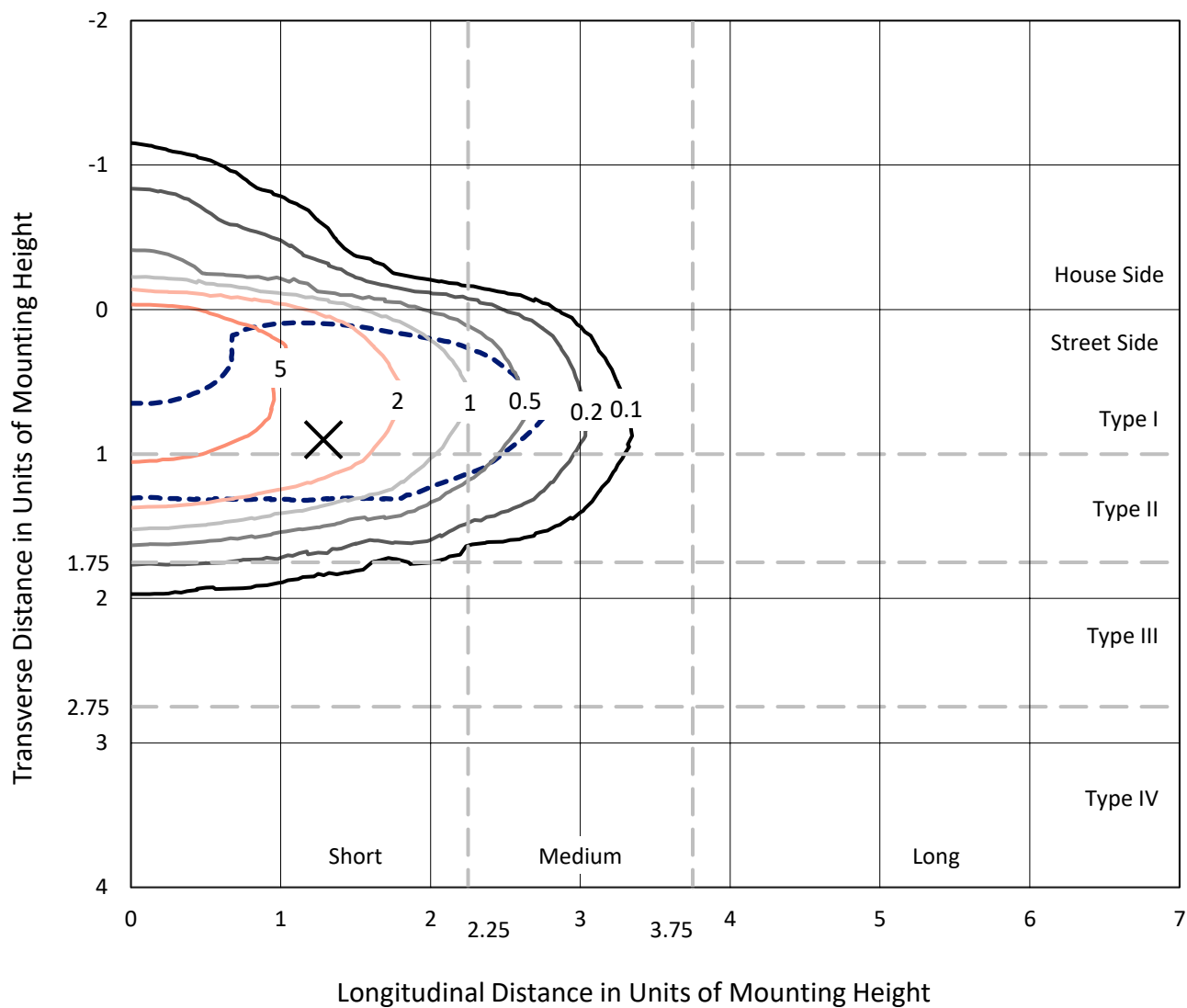
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

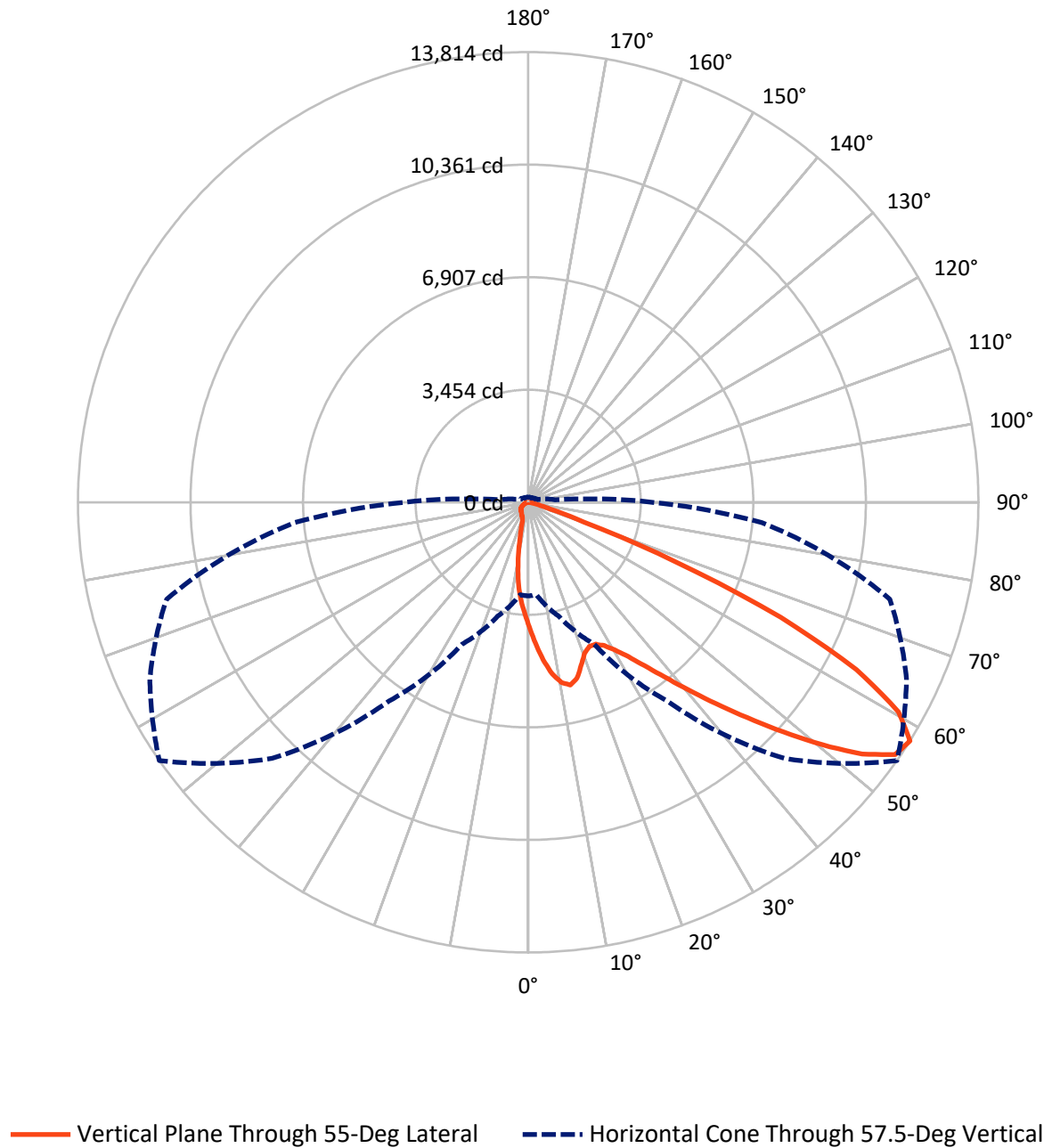


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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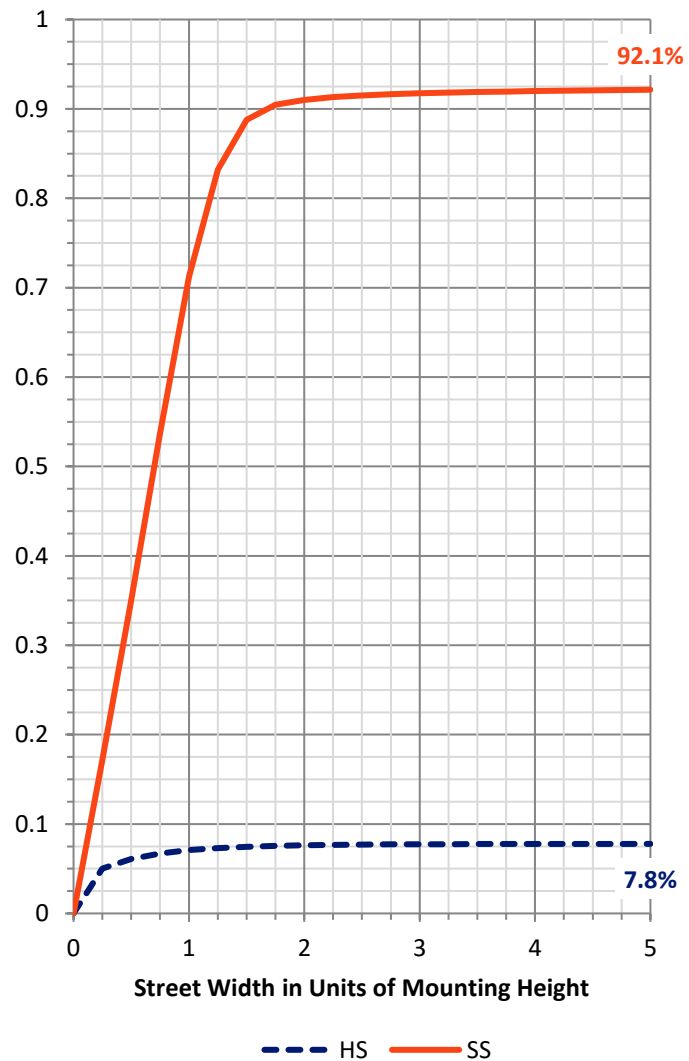
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1236.0	0.0	1236.0
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	14591.0	0.0	14591.0
	% Fixture	92.2	0.0	92.2
Total	Lumens	15827.0	0.0	15827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.9	2.2
10°-20°	857.2	5.4
20°-30°	1371.5	8.7
30°-40°	2321.3	14.7
40°-50°	3811.1	24.1
50°-60°	4188.6	26.5
60°-70°	2402.6	15.2
70°-80°	490.9	3.1
80°-90°	29.0	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°	15827.0	100.0
0°-180°	15827.0	100.0

Coefficient of Utilization



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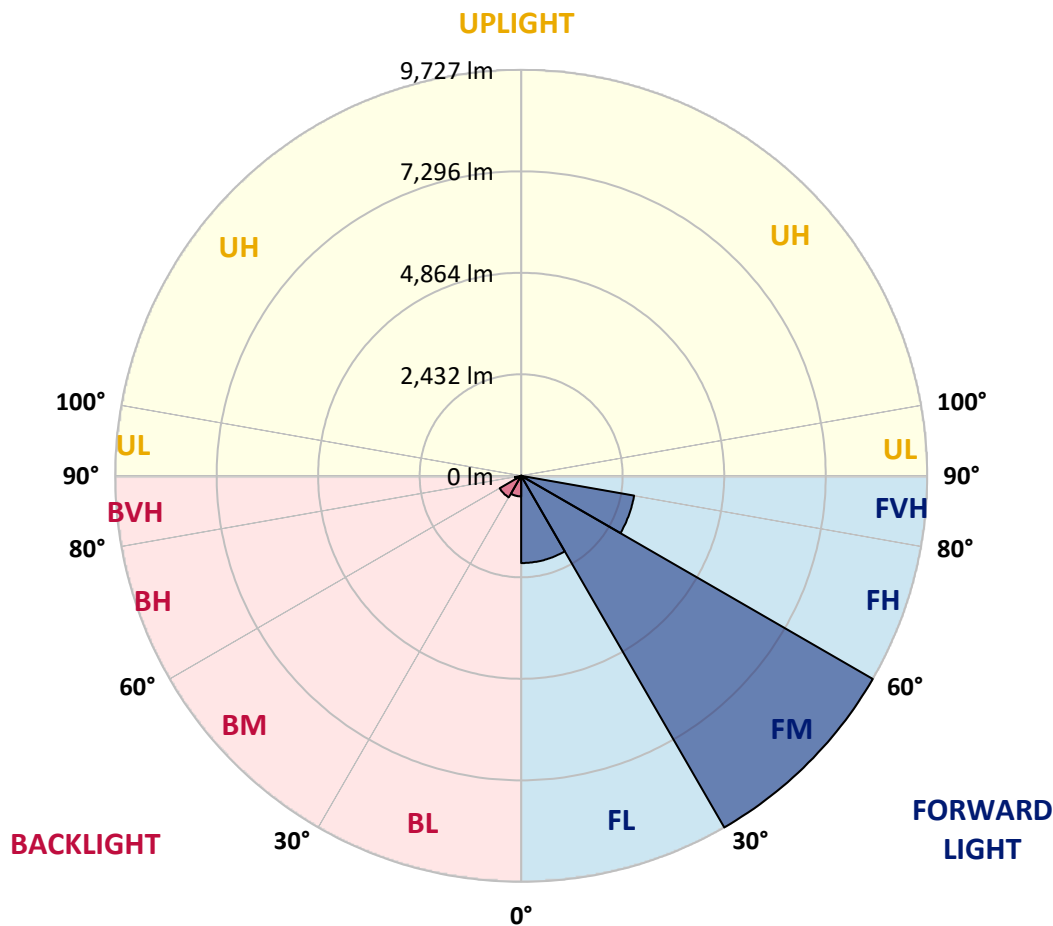
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2090.1	13.2			
FM	(30°-60°)	9727.4	61.5			
FH	(60°-80°)	2746.5	17.4			G2/5000
FVH	(80°-90°)	27.0	0.2			G1/100
BL	(0°-30°)	493.5	3.1	B1/500		
BM	(30°-60°)	593.6	3.8	B1/1000		
BH	(60°-80°)	147.0	0.9	B1/500		G1/500
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9
2.5°	4732.3	4672.7	4663.9	4652.2	4539.0	4454.1	4331.2	4196.5	4045.2	3891.0	3822.7
5°	5467.1	5420.3	5411.5	5356.9	5228.0	5083.6	4865.0	4588.8	4306.8	3974.9	3832.5
7.5°	5609.6	5600.8	5640.8	5638.9	5621.3	5507.1	5322.7	4993.8	4570.3	4078.4	3857.8
10°	4974.3	4996.7	5115.8	5220.2	5502.3	5666.2	5626.2	5354.9	4841.6	4196.5	3886.1
12.5°	4395.6	4369.2	4454.1	4572.2	4900.1	5388.1	5752.1	5656.5	5151.9	4330.2	3928.1
15°	4032.5	4021.8	4069.6	4124.3	4374.1	4866.0	5605.7	5901.4	5450.5	4488.3	3991.5
17.5°	3916.4	3907.6	3922.2	3935.9	4097.9	4478.5	5257.3	6051.7	5736.5	4668.8	4061.8
20°	4011.1	3999.3	3997.4	3986.7	4054.0	4313.6	4942.1	6062.4	5993.2	4832.8	4122.3
22.5°	4287.2	4273.6	4225.8	4182.8	4188.7	4336.0	4801.6	5955.1	6186.4	4986.0	4160.4
25°	4787.9	4765.4	4665.9	4521.5	4429.7	4492.2	4823.0	5813.6	6370.8	5106.0	4141.8
27.5°	5414.4	5385.2	5257.3	5042.6	4832.8	4756.7	4978.2	5716.0	6524.1	5197.8	4101.8
30°	6028.3	5990.2	5864.3	5697.5	5391.0	5150.9	5258.3	5758.9	6706.6	5293.4	4049.1
32.5°	6690.9	6654.8	6488.0	6281.1	6027.3	5704.3	5641.8	5968.8	6930.0	5427.1	4012.0
35°	7529.3	7472.7	7235.5	6953.5	6684.1	6357.2	6161.0	6330.8	7227.7	5631.1	4032.5
37.5°	8483.7	8407.6	8151.9	7762.5	7411.2	7045.2	6793.4	6828.6	7663.9	5904.3	4096.0
40°	9383.5	9314.2	9078.1	8711.1	8270.0	7825.9	7557.6	7479.5	8266.1	6237.1	4207.2
42.5°	9923.2	9860.8	9761.2	9606.0	9234.2	8781.4	8442.7	8273.9	8978.5	6635.3	4342.9
45°	9953.5	9898.8	10032.5	10213.1	10139.9	9838.3	9425.5	9116.1	9693.9	7009.1	4483.4
47.5°	9469.4	9432.3	9838.3	10468.8	10783.0	10909.9	10529.3	9888.1	10284.3	7277.5	4541.0
50°	8150.0	8136.3	8971.7	10129.1	11028.0	11848.7	11693.5	10606.4	10742.0	7416.1	4486.3
52.5°	7066.7	7016.9	7503.9	9041.9	10671.7	12342.5	12831.5	11311.0	11062.1	7442.4	4358.5
55°	5359.8	5315.9	5926.8	7222.8	9523.1	12166.9	13663.9	12038.0	11291.5	7375.1	4129.1
57.5°	2875.1	2847.8	3619.7	4807.4	7444.4	11112.9	13814.2	12807.1	11484.7	7196.5	3808.1
60°	1119.4	1114.5	1403.4	2332.5	4524.4	9041.0	13055.9	13268.7	11605.7	6976.9	3539.7
62.5°	677.3	691.9	738.8	1047.2	1998.7	5616.5	11308.0	12743.6	11686.7	6775.9	3318.1
65°	560.2	561.2	567.0	719.3	957.4	2350.0	8513.0	11016.2	11486.6	6417.7	3003.9
67.5°	480.2	488.9	511.4	570.9	675.3	1030.6	4901.1	8533.5	10269.7	5584.2	2514.0
70°	378.7	390.4	418.7	469.4	521.1	645.1	1811.3	5677.9	7845.5	4209.2	1901.1
72.5°	319.1	318.2	332.8	381.6	413.8	453.8	696.8	3181.5	4559.5	2009.4	940.8
75°	246.9	256.7	275.2	319.1	338.6	328.9	377.7	1162.3	1633.7	609.0	320.1
77.5°	193.2	201.0	217.6	260.6	280.1	233.2	217.6	415.7	525.0	218.6	144.4
80°	86.9	93.7	148.3	192.3	228.4	161.0	118.1	212.8	233.2	99.5	73.2
82.5°	15.6	26.3	86.9	101.5	117.1	104.4	61.5	110.3	114.2	40.0	25.4
85°	1.0	2.0	30.3	37.1	46.8	34.2	18.5	43.9	38.1	13.7	9.8
87.5°	0.0	0.0	0.0	1.0	1.0	4.9	5.9	7.8	5.9	4.9	3.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9	3813.9
2.5°	3752.4	3613.9	3479.2	3368.9	3304.5	3195.2	3123.0	3111.3	3081.0	3107.3
5°	3680.2	3432.3	3181.5	2957.1	2772.6	2534.5	2356.9	2281.7	2216.3	2238.8
7.5°	3646.1	3254.7	2864.3	2480.8	2086.5	1705.9	1422.9	1304.8	1215.0	1227.7
10°	3600.2	3070.3	2458.4	1872.8	1344.8	969.1	773.9	701.7	661.7	662.7
12.5°	3565.1	2849.7	1987.0	1269.7	818.8	618.7	558.2	540.7	529.0	529.9
15°	3547.5	2590.1	1521.5	846.1	585.6	524.1	509.4	501.6	493.8	492.8
17.5°	3518.2	2301.2	1113.5	617.8	512.4	490.9	478.2	469.4	459.7	457.7
20°	3474.3	1973.3	813.9	522.1	480.2	463.6	446.0	434.3	422.6	420.6
22.5°	3393.3	1626.9	625.6	483.1	456.7	438.2	416.7	403.1	391.3	389.4
25°	3243.0	1301.9	527.0	458.7	436.2	413.8	390.4	371.8	361.1	359.1
27.5°	3052.7	1022.8	478.2	436.2	409.9	389.4	363.0	345.5	335.7	333.8
30°	2828.2	787.6	449.9	410.9	378.7	361.1	337.7	323.0	317.2	317.2
32.5°	2586.2	629.5	438.2	385.5	351.3	331.8	313.3	307.4	305.5	304.5
35°	2358.8	546.5	432.3	365.0	326.9	308.4	300.6	301.6	305.5	305.5
37.5°	2156.8	520.2	429.4	350.4	305.5	288.9	293.8	302.5	298.6	298.6
40°	1974.3	523.1	427.5	339.6	287.9	278.1	287.9	281.1	271.3	270.3
42.5°	1834.7	547.5	423.6	330.8	277.2	270.3	266.4	255.7	254.7	256.7
45°	1733.2	569.0	422.6	326.9	265.5	252.8	247.9	237.1	256.7	261.5
47.5°	1613.2	569.0	422.6	313.3	245.9	241.1	233.2	221.5	241.1	245.9
50°	1458.0	532.9	406.0	297.7	230.3	227.4	213.7	199.1	195.2	198.1
52.5°	1261.9	467.5	364.0	276.2	214.7	208.8	192.3	181.5	178.6	178.6
55°	1038.4	391.3	307.4	245.0	198.1	187.4	175.7	170.8	167.9	165.9
57.5°	844.2	321.1	246.9	217.6	182.5	168.8	164.9	159.1	154.2	151.3
60°	692.9	252.8	204.0	193.2	166.9	154.2	153.2	145.4	132.7	130.8
62.5°	534.8	185.4	171.8	167.9	151.3	140.5	138.6	123.0	103.4	99.5
65°	377.7	144.4	138.6	147.4	134.7	124.9	120.0	96.6	76.1	73.2
67.5°	265.5	121.0	109.3	128.8	117.1	104.4	101.5	82.0	63.4	61.5
70°	189.3	98.6	89.8	110.3	93.7	91.7	85.9	68.3	51.7	49.8
72.5°	133.7	75.1	69.3	95.6	64.4	79.0	70.3	52.7	39.0	37.1
75°	98.6	53.7	48.8	55.6	46.8	59.5	49.8	35.1	24.4	23.4
77.5°	72.2	34.2	29.3	27.3	27.3	37.1	27.3	14.6	10.7	9.8
80°	50.7	15.6	13.7	11.7	10.7	8.8	3.9	2.0	1.0	1.0
82.5°	30.3	6.8	6.8	4.9	2.9	0.0	0.0	0.0	0.0	0.0
85°	6.8	2.9	2.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	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

(END OF REPORT)