

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: P949137

Luminaire Tested: **GALN-SB4A-727-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949137
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-SB4A-727-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 350mA 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: 14218 lumens
Efficiency: N/A
Efficacy: 124.7 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): 114
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



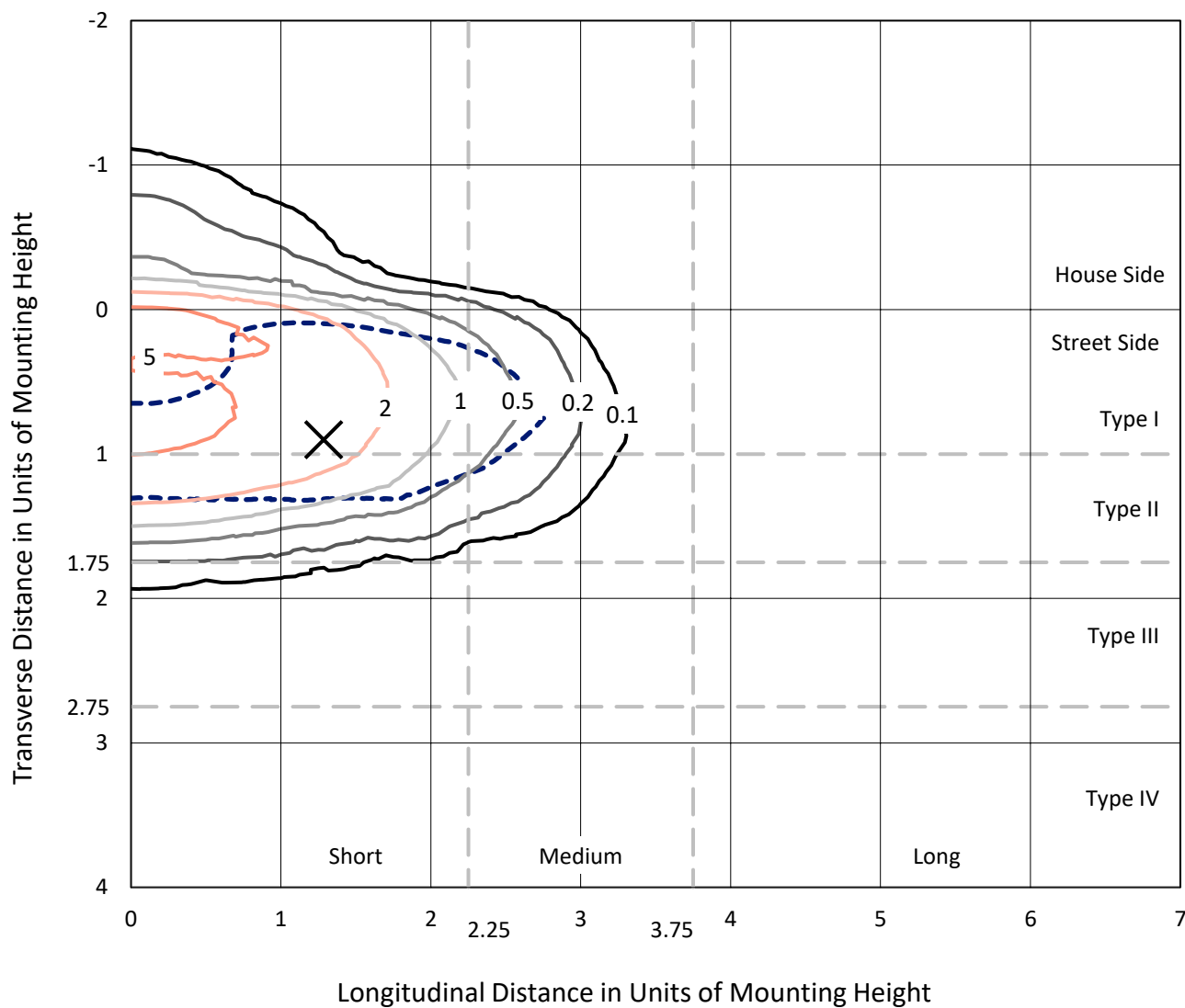
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

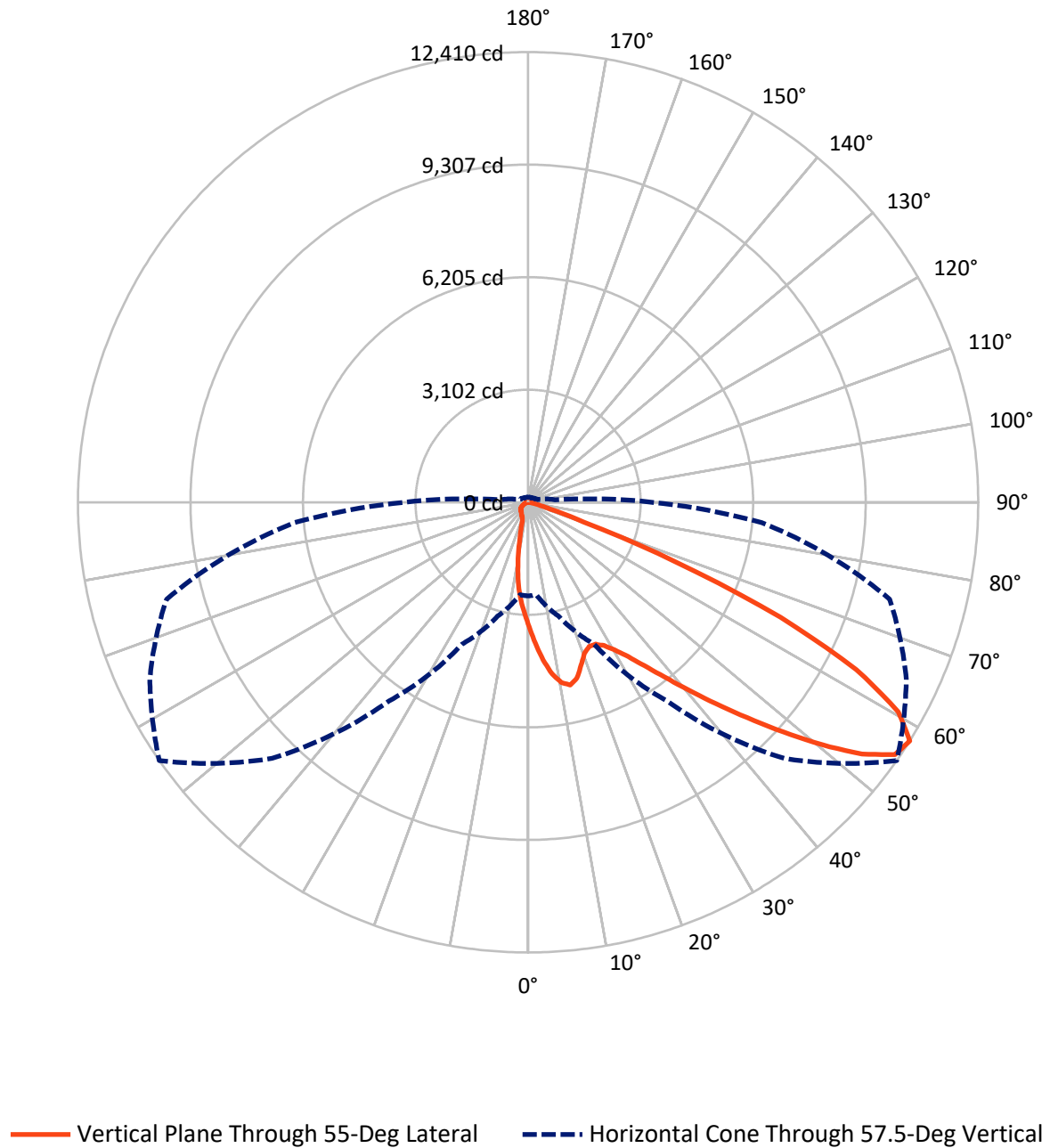
--- 1/2 Max cd



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

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Luminous Intensity Polar Plot



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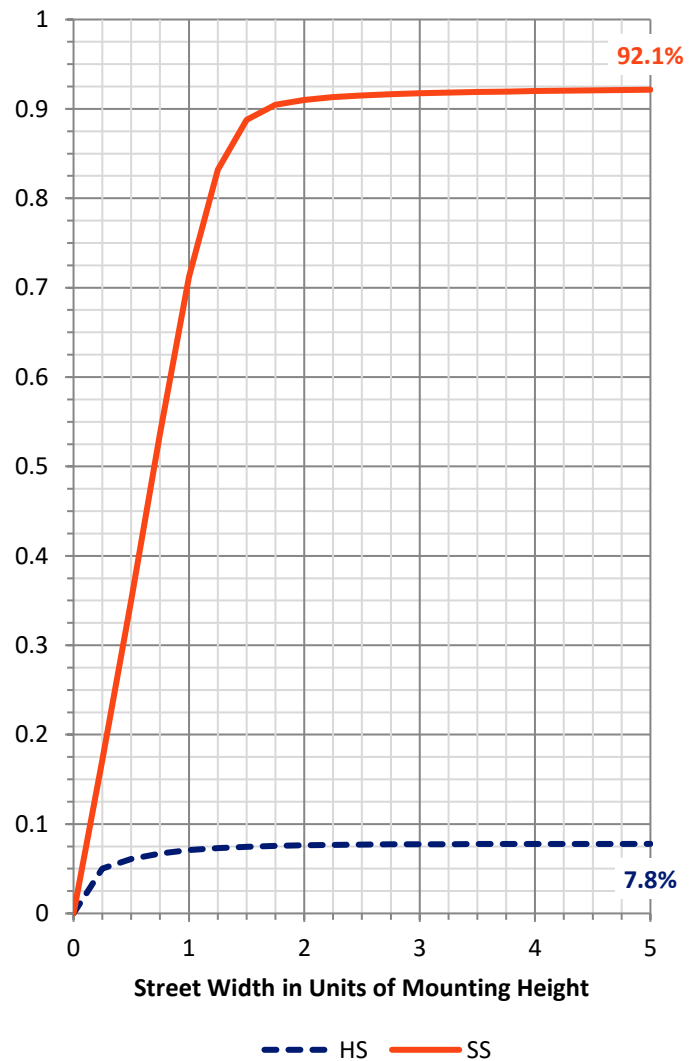
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1110.4	0.0	1110.4
	% Fixture	7.8	0.0	7.8
Street Side	Lumens	13107.6	0.0	13107.6
	% Fixture	92.2	0.0	92.2
Total	Lumens	14218.0	0.0	14218.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.8	2.2
10°-20°	770.0	5.4
20°-30°	1232.0	8.7
30°-40°	2085.3	14.7
40°-50°	3423.6	24.1
50°-60°	3762.8	26.5
60°-70°	2158.4	15.2
70°-80°	441.0	3.1
80°-90°	26.0	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°	14218.0	100.0
0°-180°	14218.0	100.0

Coefficient of Utilization



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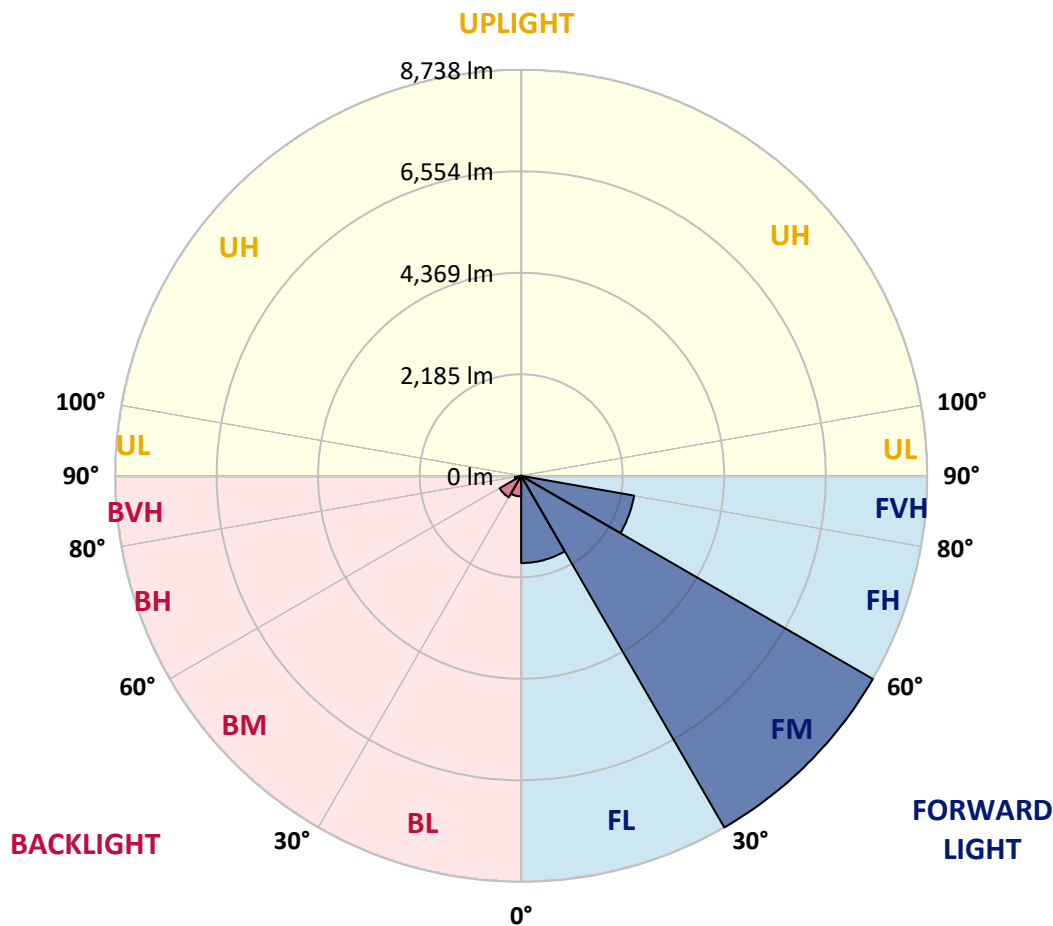
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1877.6	13.2			
FM	(30°-60°)	8738.5	61.5			
FH	(60°-80°)	2467.3	17.4			G2/5000
FVH	(80°-90°)	24.3	0.2			G1/100
BL	(0°-30°)	443.3	3.1	B1/500		
BM	(30°-60°)	533.3	3.8	B1/1000		
BH	(60°-80°)	132.1	0.9	B1/500		G1/500
BVH	(80°-90°)	1.8	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°	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2
2.5°	4251.2	4197.7	4189.8	4179.3	4077.6	4001.3	3890.8	3769.9	3634.0	3495.4	3434.1
5°	4911.3	4869.3	4861.4	4812.3	4696.5	4566.8	4370.4	4122.3	3868.9	3570.8	3442.8
7.5°	5039.3	5031.4	5067.4	5065.6	5049.9	4947.3	4781.6	4486.1	4105.6	3663.8	3465.6
10°	4468.6	4488.8	4595.7	4689.5	4942.9	5090.2	5054.2	4810.5	4349.4	3769.9	3491.1
12.5°	3948.7	3925.0	4001.3	4107.4	4402.0	4840.3	5167.3	5081.4	4628.2	3890.0	3528.8
15°	3622.6	3612.9	3655.9	3705.0	3929.4	4371.3	5035.8	5301.5	4896.4	4032.0	3585.7
17.5°	3518.2	3510.4	3523.5	3535.8	3681.3	4023.2	4722.8	5436.5	5153.3	4194.2	3648.9
20°	3603.3	3592.8	3591.0	3581.4	3641.9	3875.1	4439.7	5446.1	5383.9	4341.5	3703.2
22.5°	3851.4	3839.1	3796.2	3757.6	3762.8	3895.2	4313.4	5349.7	5557.5	4479.1	3737.4
25°	4301.1	4281.0	4191.6	4061.8	3979.4	4035.5	4332.7	5222.6	5723.2	4587.0	3720.8
27.5°	4864.0	4837.7	4722.8	4530.0	4341.5	4273.1	4472.1	5134.9	5860.8	4669.4	3684.8
30°	5415.4	5381.3	5268.2	5118.2	4843.0	4627.3	4723.7	5173.5	6024.8	4755.3	3637.5
32.5°	6010.7	5978.3	5828.4	5642.5	5414.6	5124.4	5068.3	5362.0	6225.5	4875.4	3604.2
35°	6763.8	6713.0	6499.9	6246.6	6004.6	5710.9	5534.7	5687.2	6492.9	5058.6	3622.6
37.5°	7621.3	7552.9	7323.2	6973.4	6657.7	6329.0	6102.8	6134.3	6884.8	5304.1	3679.6
40°	8429.6	8367.3	8155.2	7825.5	7429.3	7030.3	6789.3	6719.1	7425.7	5603.1	3779.5
42.5°	8914.4	8858.3	8768.9	8629.5	8295.4	7888.6	7584.4	7432.8	8065.7	5960.8	3901.4
45°	8941.6	8892.5	9012.6	9174.8	9109.0	8838.1	8467.3	8189.4	8708.4	6296.5	4027.6
47.5°	8506.7	8473.4	8838.1	9404.5	9686.8	9800.8	9458.8	8882.8	9238.8	6537.6	4079.3
50°	7321.4	7309.1	8059.6	9099.4	9906.8	10644.2	10504.8	9528.1	9650.0	6662.1	4030.2
52.5°	6348.3	6303.6	6741.0	8122.7	9586.8	11087.8	11527.0	10161.1	9937.5	6685.8	3915.4
55°	4814.9	4775.4	5324.3	6488.5	8554.9	10930.0	12274.8	10814.2	10143.5	6625.3	3709.4
57.5°	2582.8	2558.2	3251.7	4318.7	6687.6	9983.1	12409.8	11505.1	10317.1	6464.9	3420.9
60°	1005.6	1001.2	1260.7	2095.3	4064.4	8121.9	11728.6	11919.8	10425.9	6267.6	3179.8
62.5°	608.4	621.6	663.7	940.7	1795.5	5045.5	10158.5	11448.1	10498.6	6087.0	2980.8
65°	503.2	504.1	509.4	646.1	860.1	2111.1	7647.6	9896.3	10318.9	5765.3	2698.5
67.5°	431.3	439.2	459.4	512.9	606.7	925.8	4402.8	7666.0	9225.6	5016.5	2258.4
70°	340.2	350.7	376.1	421.7	468.2	579.5	1627.2	5100.7	7047.9	3781.3	1707.8
72.5°	286.7	285.8	299.0	342.8	371.7	407.7	626.0	2858.1	4096.0	1805.1	845.1
75°	221.8	230.6	247.2	286.7	304.2	295.5	339.3	1044.2	1467.6	547.1	287.6
77.5°	173.6	180.6	195.5	234.1	251.6	209.5	195.5	373.5	471.7	196.4	129.8
80°	78.0	84.2	133.3	172.7	205.2	144.7	106.1	191.1	209.5	89.4	65.8
82.5°	14.0	23.7	78.0	91.2	105.2	93.8	55.2	99.1	102.6	35.9	22.8
85°	0.9	1.8	27.2	33.3	42.1	30.7	16.7	39.5	34.2	12.3	8.8
87.5°	0.0	0.0	0.0	0.9	0.9	4.4	5.3	7.0	5.3	4.4	3.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2	3426.2
2.5°	3371.0	3246.5	3125.5	3026.4	2968.5	2870.4	2805.5	2795.0	2767.8	2791.4
5°	3306.1	3083.4	2858.1	2656.4	2490.7	2276.8	2117.3	2049.8	1991.0	2011.2
7.5°	3275.4	2923.8	2573.1	2228.6	1874.4	1532.5	1278.2	1172.2	1091.5	1102.9
10°	3234.2	2758.1	2208.4	1682.4	1208.1	870.6	695.2	630.4	594.4	595.3
12.5°	3202.6	2560.0	1785.0	1140.6	735.6	555.8	501.5	485.7	475.2	476.1
15°	3186.8	2326.8	1366.8	760.1	526.0	470.8	457.6	450.6	443.6	442.7
17.5°	3160.5	2067.3	1000.3	555.0	460.3	441.0	429.6	421.7	412.9	411.2
20°	3121.1	1772.7	731.2	469.0	431.3	416.4	400.7	390.1	379.6	377.9
22.5°	3048.3	1461.5	562.0	434.0	410.3	393.6	374.4	362.1	351.6	349.8
25°	2913.3	1169.5	473.4	412.1	391.9	371.7	350.7	334.0	324.4	322.6
27.5°	2742.4	918.8	429.6	391.9	368.2	349.8	326.1	310.4	301.6	299.8
30°	2540.7	707.5	404.2	369.1	340.2	324.4	303.3	290.2	284.9	284.9
32.5°	2323.3	565.5	393.6	346.3	315.6	298.1	281.4	276.2	274.4	273.5
35°	2119.0	491.0	388.4	327.9	293.7	277.0	270.0	270.9	274.4	274.4
37.5°	1937.5	467.3	385.8	314.7	274.4	259.5	263.9	271.8	268.3	268.3
40°	1773.6	469.9	384.0	305.1	258.6	249.9	258.6	252.5	243.7	242.8
42.5°	1648.2	491.8	380.5	297.2	249.0	242.8	239.3	229.7	228.8	230.6
45°	1557.0	511.1	379.6	293.7	238.5	227.1	222.7	213.0	230.6	235.0
47.5°	1449.2	511.1	379.6	281.4	220.9	216.5	209.5	199.0	216.5	220.9
50°	1309.8	478.7	364.7	267.4	206.9	204.3	192.0	178.8	175.3	178.0
52.5°	1133.6	419.9	327.0	248.1	192.9	187.6	172.7	163.1	160.4	160.4
55°	932.8	351.6	276.2	220.1	178.0	168.3	157.8	153.4	150.8	149.0
57.5°	758.4	288.4	221.8	195.5	163.9	151.7	148.2	142.9	138.5	135.9
60°	622.5	227.1	183.2	173.6	149.9	138.5	137.6	130.6	119.2	117.5
62.5°	480.4	166.6	154.3	150.8	135.9	126.2	124.5	110.5	92.9	89.4
65°	339.3	129.8	124.5	132.4	121.0	112.2	107.8	86.8	68.4	65.8
67.5°	238.5	108.7	98.2	115.7	105.2	93.8	91.2	73.6	57.0	55.2
70°	170.1	88.5	80.7	99.1	84.2	82.4	77.2	61.4	46.5	44.7
72.5°	120.1	67.5	62.2	85.9	57.9	71.0	63.1	47.3	35.1	33.3
75°	88.5	48.2	43.8	50.0	42.1	53.5	44.7	31.6	21.9	21.0
77.5°	64.9	30.7	26.3	24.5	24.5	33.3	24.5	13.2	9.6	8.8
80°	45.6	14.0	12.3	10.5	9.6	7.9	3.5	1.8	0.9	0.9
82.5°	27.2	6.1	6.1	4.4	2.6	0.0	0.0	0.0	0.0	0.0
85°	6.1	2.6	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	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)