

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: P943479

Luminaire Tested: **GALN-SB8A-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8A-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29616 lumens
Efficiency: N/A
Efficacy: 130.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 227.1
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



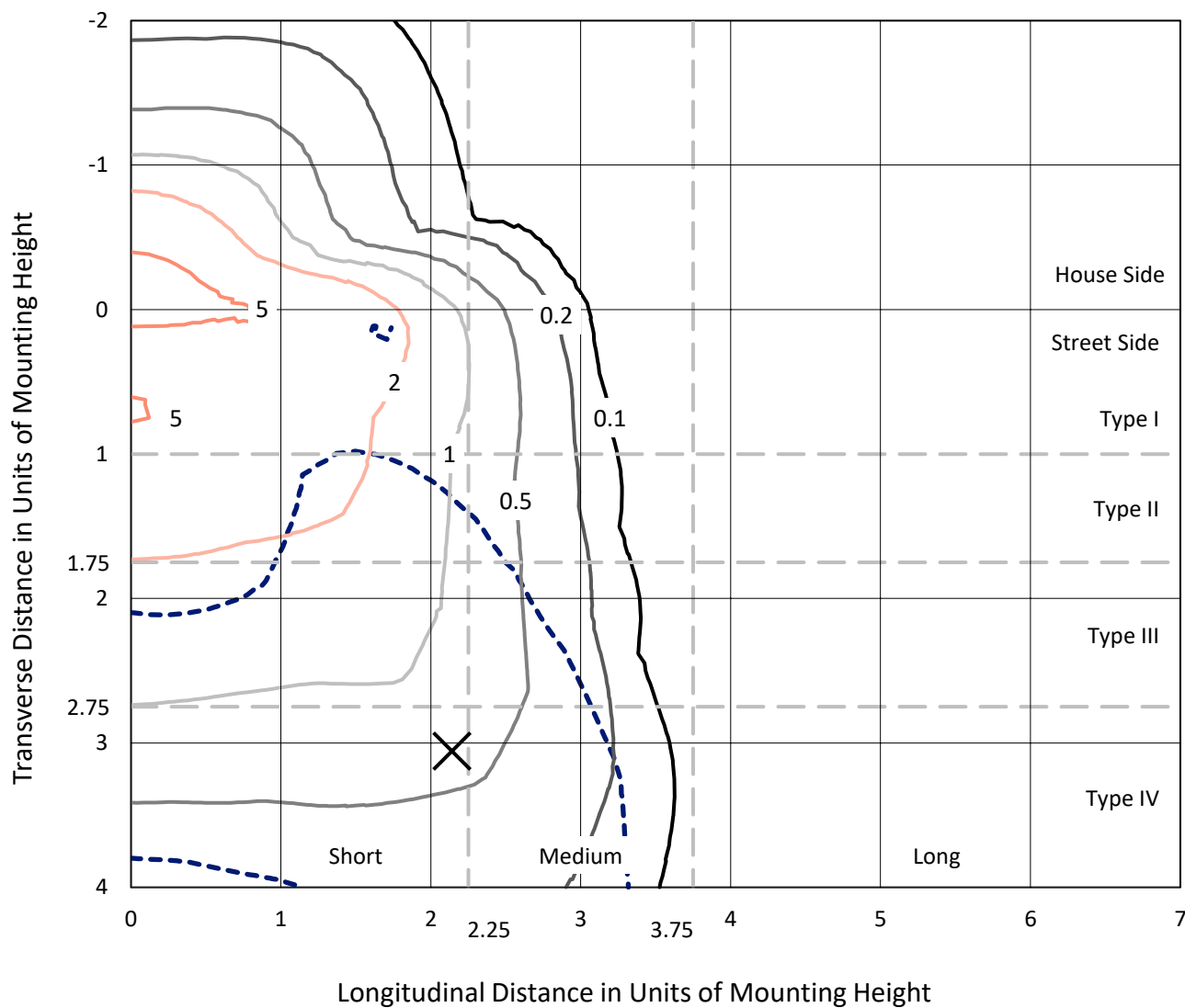
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



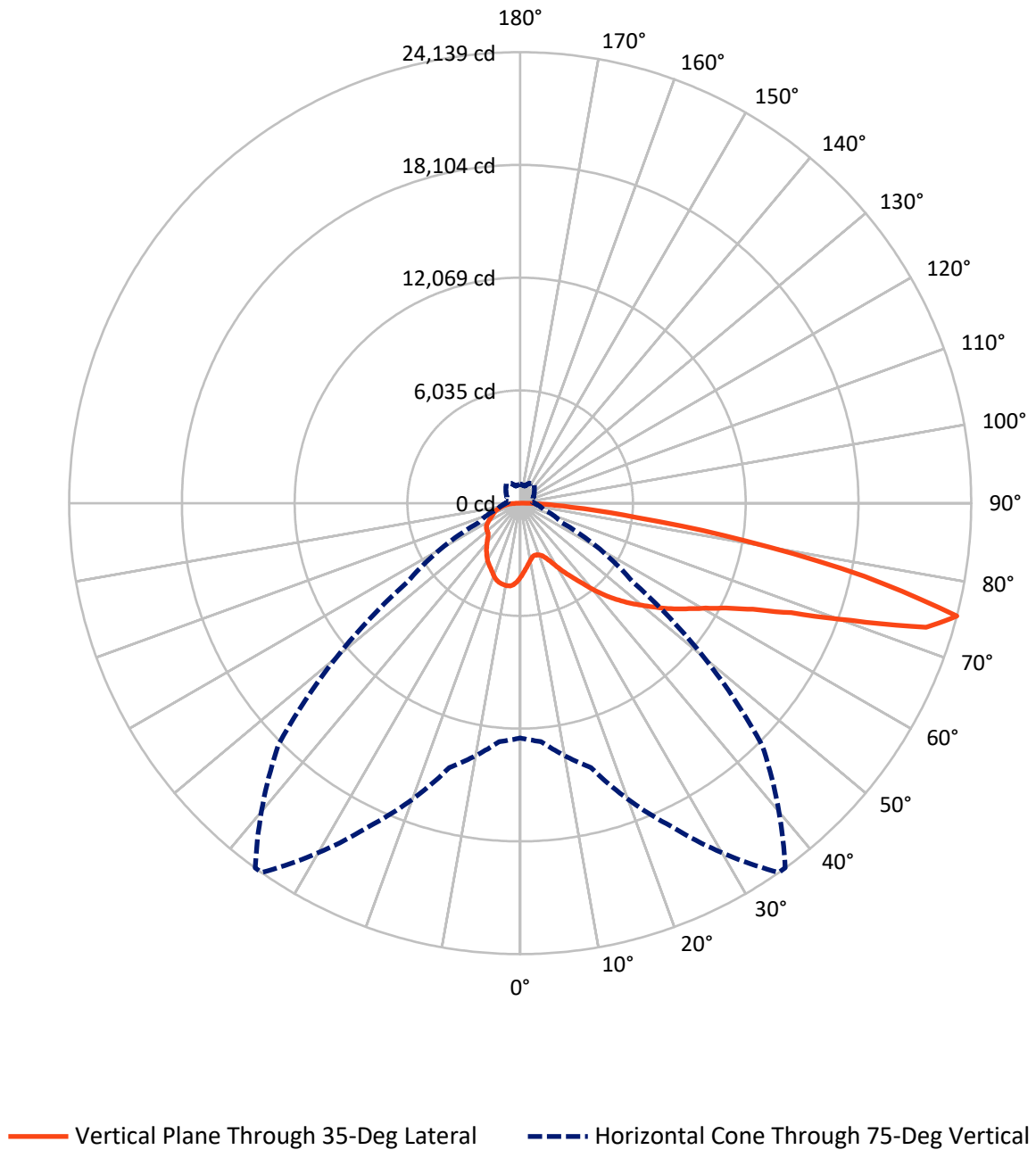
Based on 25 foot mounting height. Maximum calculated value = 7 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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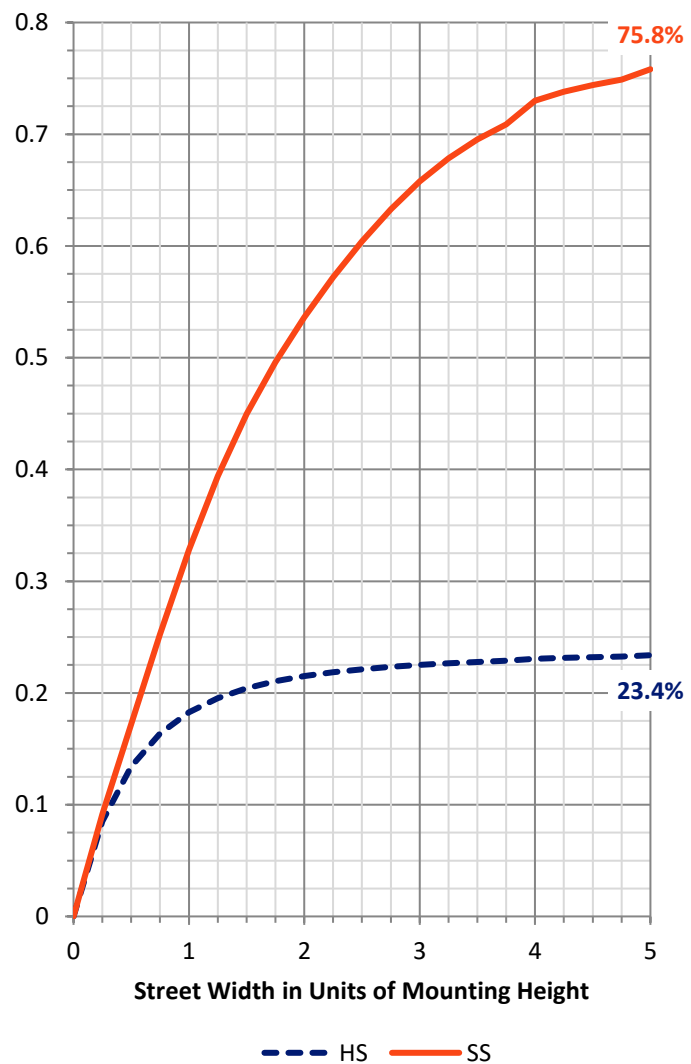
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7047.9	0.0	7047.9
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	22568.1	0.0	22568.1
	% Fixture	76.2	0.0	76.2
Total	Lumens	29616.0	0.0	29616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	373.7	1.3
10°-20°	1077.8	3.6
20°-30°	1809.9	6.1
30°-40°	2812.8	9.5
40°-50°	4175.0	14.1
50°-60°	5763.8	19.5
60°-70°	6992.8	23.6
70°-80°	5779.0	19.5
80°-90°	831.2	2.8
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°	29616.0	100.0
0°-180°	29616.0	100.0

Coefficient of Utilization



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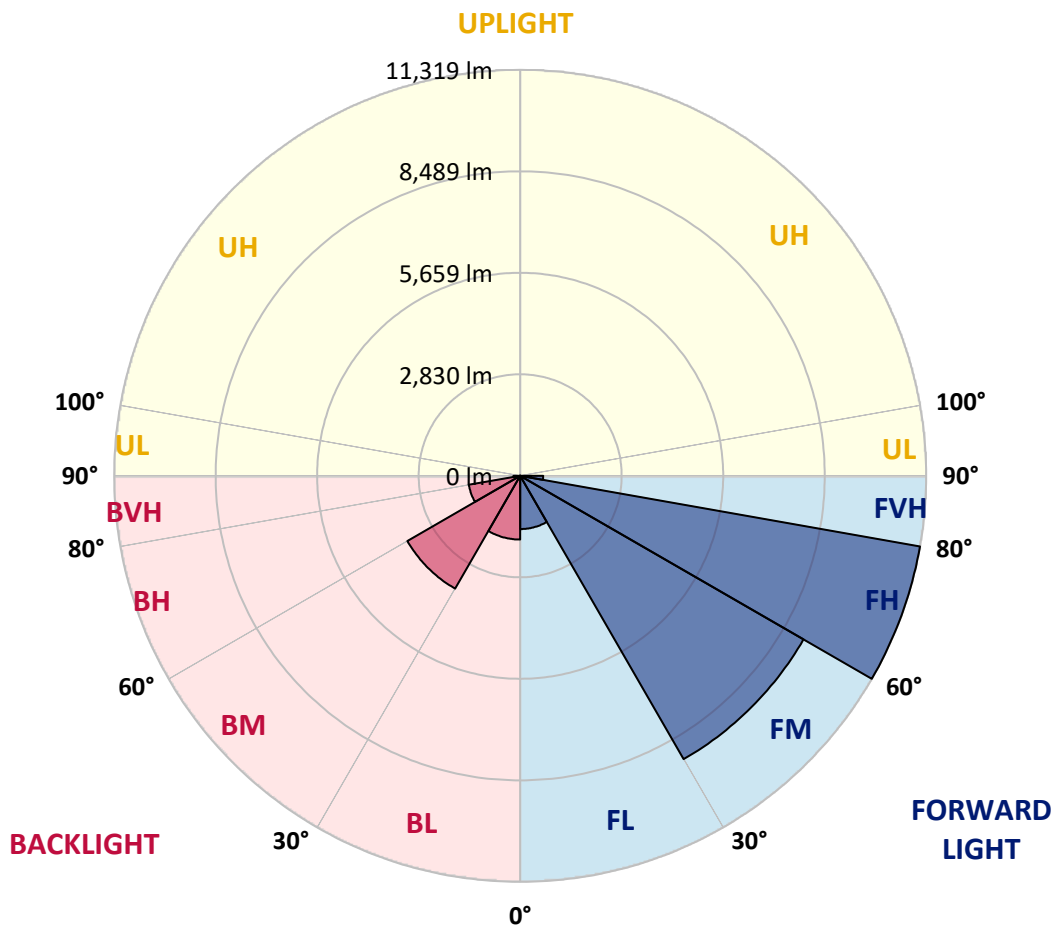
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1485.2	5.0			
FM	(30°-60°)	9120.1	30.8			
FH	(60°-80°)	11318.8	38.2			G4/12000
FVH	(80°-90°)	644.0	2.2			G4/750
BL	(0°-30°)	1776.2	6.0	B3/2500		
BM	(30°-60°)	3631.5	12.3	B3/5000		
BH	(60°-80°)	1453.1	4.9	B3/2500		G3/2500
BVH	(80°-90°)	187.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5
2.5°	3639.1	3661.5	3671.2	3666.4	3690.4	3687.2	3720.8	3762.4	3820.1	3876.1	3957.7
5°	3359.0	3383.0	3403.8	3423.0	3469.4	3483.8	3536.7	3616.7	3722.4	3829.7	3964.1
7.5°	3098.0	3118.8	3150.8	3186.0	3264.5	3278.9	3367.0	3491.8	3639.1	3796.0	3981.8
10°	2885.1	2905.9	2939.5	2979.5	3077.2	3094.8	3206.9	3373.4	3565.5	3764.0	4001.0
12.5°	2793.8	2800.2	2819.4	2859.4	2944.3	2955.5	3078.8	3269.3	3493.4	3740.0	4029.8
15°	2789.0	2801.8	2803.4	2824.2	2894.7	2899.5	3013.1	3202.1	3448.6	3735.2	4073.0
17.5°	2837.0	2846.6	2832.2	2845.0	2904.3	2912.3	3001.9	3170.0	3434.2	3756.0	4146.7
20°	2965.1	2973.1	2929.9	2912.3	2955.5	2961.9	3050.0	3190.8	3448.6	3799.2	4247.5
22.5°	3237.3	3242.1	3136.4	3064.4	3067.6	3070.8	3147.6	3275.7	3504.6	3877.7	4375.6
25°	3661.5	3658.3	3490.2	3351.0	3270.9	3253.3	3304.5	3413.4	3599.1	3981.8	4540.5
27.5°	4157.9	4133.9	3965.7	3757.6	3583.1	3557.5	3546.3	3592.7	3733.6	4119.4	4742.2
30°	4718.2	4695.8	4514.9	4242.7	4001.0	3959.3	3853.7	3829.7	3933.7	4306.8	5022.4
32.5°	5333.0	5318.6	5102.5	4772.7	4449.3	4401.2	4223.5	4159.5	4241.1	4590.1	5413.1
35°	5848.6	5835.7	5656.4	5317.0	4921.6	4862.3	4681.4	4609.4	4651.0	4953.6	5923.8
37.5°	6314.5	6308.0	6154.3	5887.0	5478.7	5406.7	5203.3	5179.3	5171.3	5432.3	6543.4
40°	6746.7	6730.7	6570.6	6429.7	6127.1	6061.5	5882.2	5861.4	5800.5	6021.5	7244.6
42.5°	7225.4	7183.8	6951.7	6886.0	6804.4	6749.9	6642.7	6645.9	6511.4	6685.9	7987.5
45°	7616.1	7592.1	7353.5	7315.1	7403.2	7380.7	7473.6	7497.6	7236.6	7382.3	8759.2
47.5°	8035.6	8013.1	7811.4	7784.2	8022.7	8029.2	8357.4	8365.4	7944.3	8106.0	9532.5
50°	8552.7	8520.7	8320.5	8354.2	8621.5	8645.5	9245.9	9191.5	8595.9	8840.9	10299.4
52.5°	8893.7	8912.9	8869.7	8924.1	9289.2	9311.6	10120.1	9980.8	9241.1	9566.1	11051.9
55°	9145.1	9183.5	9318.0	9442.9	9993.6	10016.0	10944.6	10731.7	9775.9	10238.6	11759.5
57.5°	9468.5	9414.0	9665.4	9908.8	10662.8	10722.1	11746.7	11455.4	10249.8	10818.1	12244.7
60°	9932.8	9894.3	10089.7	10449.9	11412.1	11506.6	12595.3	12107.0	10597.2	11277.6	12339.1
62.5°	10874.2	10778.1	10808.5	11127.1	12356.7	12481.6	13552.7	12675.3	10770.1	11457.0	11833.2
65°	12281.5	12116.6	11962.9	12183.8	13687.2	13810.5	14633.4	13122.0	10706.1	11109.5	10489.9
67.5°	14053.8	13890.5	13701.6	13909.7	15646.8	15744.5	15967.0	13373.4	10201.7	9771.1	8115.6
70°	15515.6	15454.7	15680.5	16537.0	18776.8	18780.1	17676.9	13165.2	8820.1	6927.6	4695.8
72.5°	15321.8	15285.0	16474.6	19122.7	22721.8	22636.9	19295.6	11589.8	5941.4	3125.2	1759.5
75°	12569.7	12808.2	14651.0	19076.2	24138.7	24127.5	18304.5	7367.9	2457.6	1295.2	909.4
77.5°	6740.3	7118.2	9511.7	14084.2	18844.1	19127.5	12869.1	2577.7	1055.1	829.3	629.2
80°	2198.2	2528.0	3791.2	7171.0	12244.7	12191.8	5515.5	1011.8	722.1	587.6	435.5
82.5°	933.4	971.8	1693.9	3386.2	6284.0	6186.4	1756.3	581.2	507.5	401.9	269.0
85°	365.0	408.3	747.7	1565.8	2721.7	2662.5	634.0	288.2	325.0	262.6	160.1
87.5°	120.1	145.7	267.4	536.3	846.9	816.5	155.3	99.3	140.9	120.1	57.6
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°	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5	3946.5
2.5°	3980.2	4005.8	4036.2	4081.0	4119.4	4151.5	4185.1	4205.9	4213.9	4237.9	4236.3
5°	4009.0	4065.0	4140.3	4213.9	4286.0	4329.2	4367.6	4386.8	4404.4	4417.2	4420.4
7.5°	4057.0	4129.0	4247.5	4343.6	4404.4	4439.6	4465.3	4458.9	4465.3	4468.5	4473.3
10°	4098.6	4199.5	4340.4	4431.6	4478.1	4479.7	4473.3	4450.9	4439.6	4441.2	4444.5
12.5°	4148.3	4260.3	4412.4	4489.3	4502.1	4466.9	4439.6	4401.2	4386.8	4380.4	4377.2
15°	4215.5	4343.6	4490.9	4519.7	4487.7	4442.9	4396.4	4334.0	4302.0	4276.3	4284.3
17.5°	4297.2	4438.0	4551.7	4530.9	4462.1	4388.4	4313.2	4218.7	4153.1	4125.8	4127.4
20°	4410.8	4537.3	4598.2	4506.9	4402.8	4290.8	4162.7	4047.4	3986.6	3959.3	3956.1
22.5°	4548.5	4670.2	4643.0	4465.3	4318.0	4138.7	3978.6	3893.7	3863.3	3844.1	3847.3
25°	4713.4	4817.5	4675.0	4404.4	4178.7	3936.9	3813.6	3786.4	3772.0	3757.6	3757.6
27.5°	4928.0	4984.0	4699.0	4314.8	3960.9	3722.4	3677.6	3682.4	3677.6	3653.5	3658.3
30°	5211.3	5200.1	4721.4	4169.1	3711.2	3528.7	3531.9	3552.7	3555.9	3539.9	3547.9
32.5°	5584.4	5470.7	4732.6	3980.2	3472.6	3359.0	3362.2	3384.6	3400.6	3373.4	3386.2
35°	6035.9	5786.1	4715.0	3743.2	3288.5	3197.3	3173.2	3179.6	3184.4	3158.8	3176.4
37.5°	6562.6	6139.9	4636.6	3480.6	3136.4	3038.7	2987.5	2944.3	2918.7	2894.7	2910.7
40°	7140.6	6525.8	4492.5	3224.5	2966.7	2870.6	2793.8	2712.1	2625.7	2593.7	2608.1
42.5°	7745.8	6922.8	4318.0	2979.5	2771.4	2692.9	2611.3	2492.8	2363.1	2297.5	2305.5
45°	8373.4	7329.5	4146.7	2737.8	2571.2	2537.6	2443.2	2300.7	2159.8	2076.5	2070.1
47.5°	8988.2	7713.7	3895.3	2494.4	2383.9	2420.8	2347.1	2215.8	2058.9	1927.6	1913.2
50°	9575.7	8074.0	3483.8	2247.8	2231.8	2385.5	2315.1	2126.2	1946.8	1778.7	1764.3
52.5°	10158.5	8365.4	2957.1	2023.7	2150.2	2375.9	2273.5	2065.3	1846.0	1669.9	1650.7
55°	10653.2	8515.9	2449.6	1831.6	2031.7	2294.3	2223.8	1993.3	1703.5	1516.2	1500.2
57.5°	10935.0	8394.2	2026.9	1642.7	1868.4	2159.8	2139.0	1839.6	1533.8	1389.7	1370.5
60°	10813.3	7901.1	1681.1	1477.7	1713.1	2014.1	1991.7	1687.5	1404.1	1268.0	1248.8
62.5°	10142.5	6961.3	1407.3	1333.7	1572.2	1865.2	1844.4	1570.6	1304.8	1173.6	1152.7
65°	8791.2	5662.8	1194.4	1213.6	1429.7	1685.9	1716.3	1472.9	1226.4	1098.3	1077.5
67.5°	6705.1	4101.8	1027.9	1109.5	1290.4	1509.8	1597.8	1402.5	1160.7	1039.1	1019.9
70°	3821.7	2329.5	887.0	1008.6	1167.1	1346.5	1506.6	1346.5	1090.3	989.4	976.6
72.5°	1448.9	1069.5	766.9	907.8	1048.7	1208.8	1405.7	1258.4	1008.6	933.4	920.6
75°	773.3	651.6	645.2	789.3	912.6	1074.3	1279.2	1172.0	947.8	986.2	1018.3
77.5°	526.7	461.1	539.5	675.6	763.7	925.4	1144.7	1040.7	821.3	818.1	754.1
80°	365.0	326.6	438.7	544.3	590.8	778.1	999.0	893.4	669.2	624.4	597.2
82.5°	219.3	212.9	328.2	406.7	417.9	600.4	827.7	749.3	547.6	477.1	480.3
85°	120.1	126.5	209.7	238.6	243.4	419.5	648.4	579.6	421.1	353.8	357.0
87.5°	33.6	43.2	76.8	94.5	116.9	217.7	385.8	344.2	211.3	147.3	147.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)