

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: P942129

Luminaire Tested: **GALN-SB6A-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942129
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-SB6A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24937 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 170.9
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



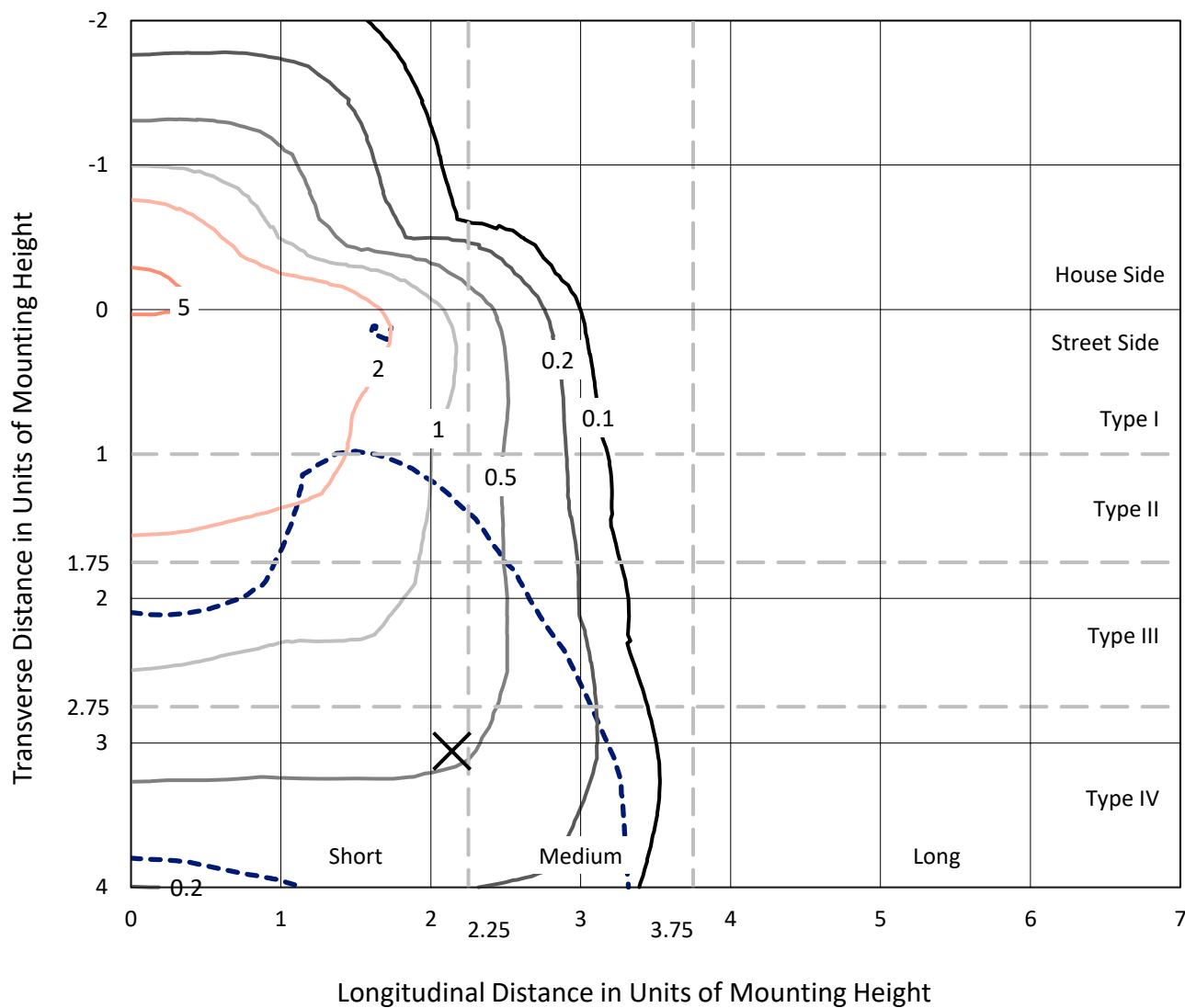
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



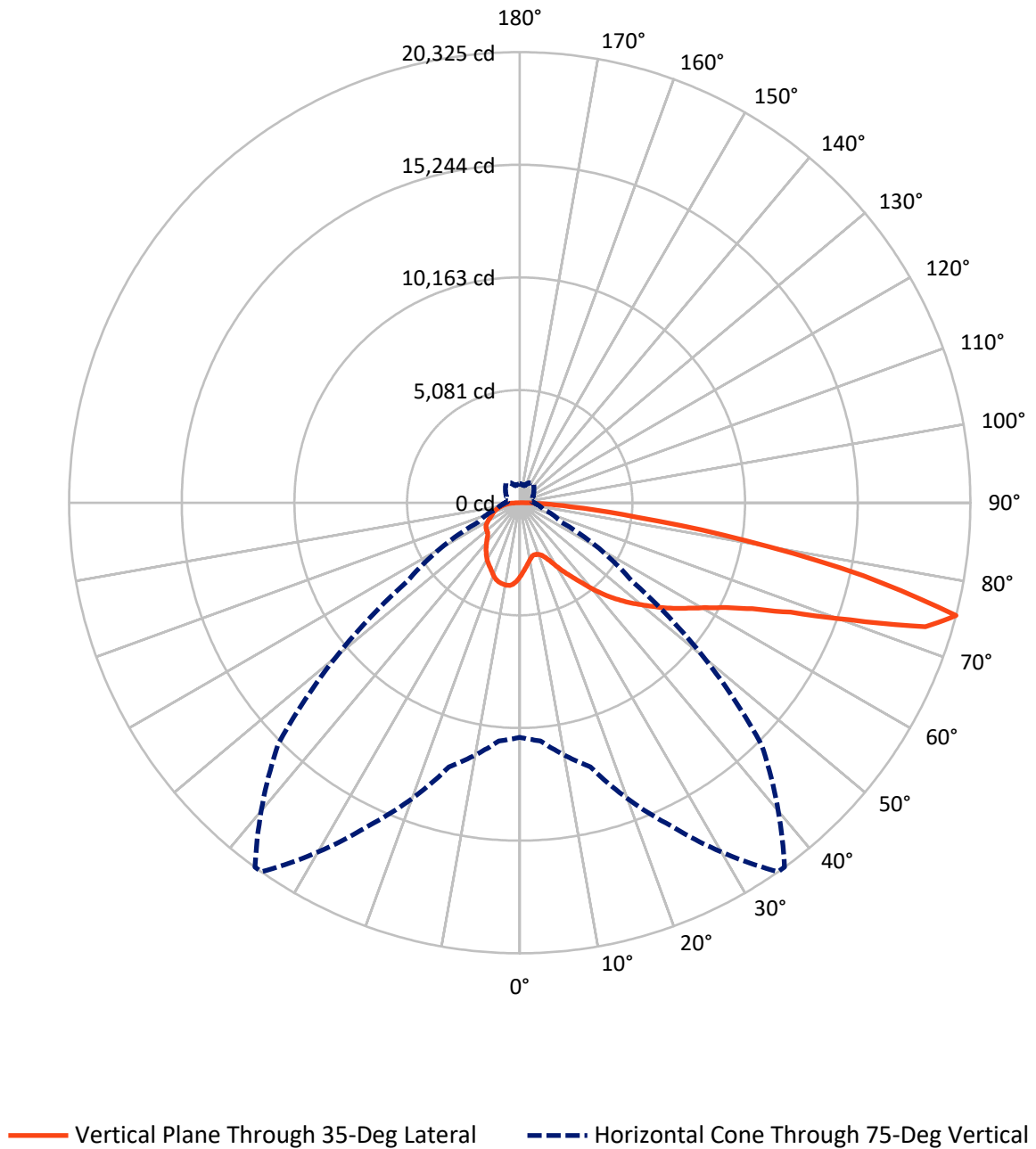
Based on 25 foot mounting height. Maximum calculated value = 5.9 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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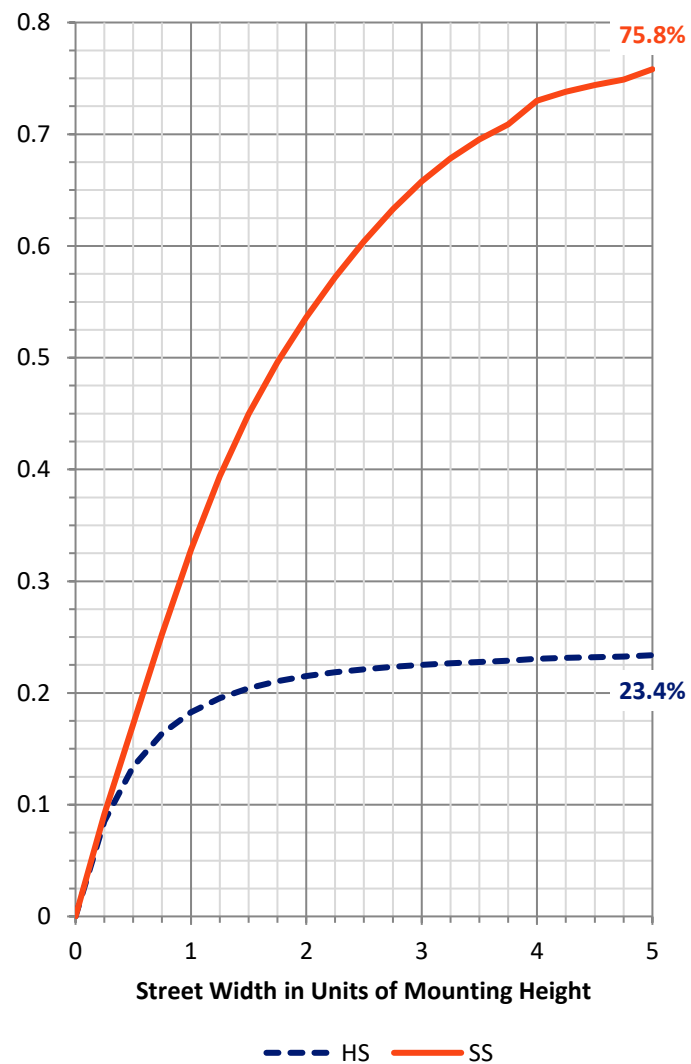
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5934.4	0.0	5934.4
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	19002.6	0.0	19002.6
	% Fixture	76.2	0.0	76.2
Total	Lumens	24937.0	0.0	24937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.6	1.3
10°-20°	907.5	3.6
20°-30°	1523.9	6.1
30°-40°	2368.4	9.5
40°-50°	3515.4	14.1
50°-60°	4853.2	19.5
60°-70°	5888.0	23.6
70°-80°	4866.0	19.5
80°-90°	699.9	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°	24937.0	100.0
0°-180°	24937.0	100.0

Coefficient of Utilization



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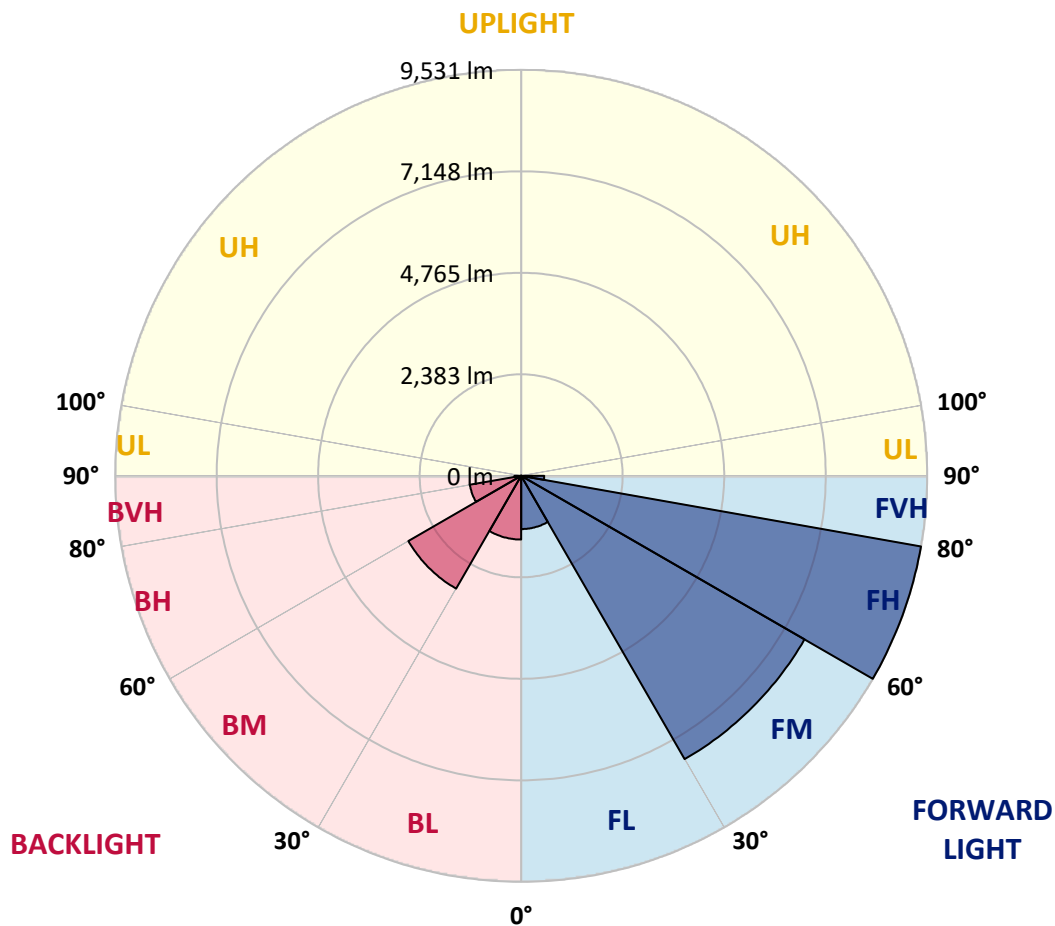
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1250.5	5.0			
FM	(30°-60°)	7679.2	30.8			
FH	(60°-80°)	9530.5	38.2			G4/12000
FVH	(80°-90°)	542.3	2.2			G4/750
BL	(0°-30°)	1495.5	6.0	B3/2500		
BM	(30°-60°)	3057.8	12.3	B3/5000		
BH	(60°-80°)	1223.5	4.9	B3/2500		G3/2500
BVH	(80°-90°)	157.6	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°	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0
2.5°	3064.2	3083.1	3091.2	3087.1	3107.3	3104.6	3132.9	3168.0	3216.5	3263.7	3332.5
5°	2828.3	2848.5	2866.0	2882.2	2921.3	2933.4	2977.9	3045.3	3134.3	3224.6	3337.9
7.5°	2608.5	2626.1	2653.0	2682.7	2748.7	2760.9	2835.0	2940.2	3064.2	3196.3	3352.7
10°	2429.2	2446.8	2475.1	2508.8	2591.0	2605.8	2700.2	2840.4	3002.2	3169.3	3368.9
12.5°	2352.4	2357.8	2374.0	2407.7	2479.1	2488.6	2592.4	2752.8	2941.5	3149.1	3393.1
15°	2348.4	2359.1	2360.5	2378.0	2437.3	2441.4	2537.1	2696.2	2903.8	3145.1	3429.5
17.5°	2388.8	2396.9	2384.8	2395.5	2445.4	2452.2	2527.7	2669.2	2891.6	3162.6	3491.5
20°	2496.6	2503.4	2467.0	2452.2	2488.6	2494.0	2568.1	2686.7	2903.8	3199.0	3576.5
22.5°	2725.8	2729.9	2640.9	2580.2	2582.9	2585.6	2650.3	2758.2	2951.0	3265.1	3684.3
25°	3083.1	3080.4	2938.8	2821.5	2754.1	2739.3	2782.4	2874.1	3030.5	3352.7	3823.2
27.5°	3501.0	3480.7	3339.2	3164.0	3017.0	2995.4	2986.0	3025.1	3143.7	3468.6	3993.0
30°	3972.8	3953.9	3801.6	3572.4	3368.9	3333.8	3244.8	3224.6	3312.2	3626.3	4228.9
32.5°	4490.5	4478.3	4296.3	4018.6	3746.3	3705.9	3556.2	3502.3	3571.1	3865.0	4557.9
35°	4924.5	4913.8	4762.8	4477.0	4144.0	4094.1	3941.8	3881.1	3916.2	4171.0	4987.9
37.5°	5316.8	5311.4	5182.0	4956.9	4613.1	4552.5	4381.3	4361.0	4354.3	4574.0	5509.6
40°	5680.8	5667.3	5532.5	5413.9	5159.1	5103.8	4952.9	4935.3	4884.1	5070.1	6100.1
42.5°	6083.9	6048.8	5853.4	5798.1	5729.4	5683.5	5593.2	5595.9	5482.7	5629.6	6725.6
45°	6412.8	6392.6	6191.7	6159.4	6233.5	6214.7	6292.9	6313.1	6093.3	6216.0	7375.4
47.5°	6766.0	6747.2	6577.3	6554.4	6755.2	6760.6	7037.0	7043.7	6689.2	6825.3	8026.5
50°	7201.5	7174.5	7006.0	7034.3	7259.4	7279.6	7785.2	7739.3	7237.9	7444.1	8672.2
52.5°	7488.6	7504.8	7468.4	7514.2	7821.6	7840.4	8521.2	8403.9	7781.1	8054.8	9305.8
55°	7700.2	7732.6	7845.8	7951.0	8414.7	8433.6	9215.5	9036.2	8231.4	8621.0	9901.7
57.5°	7972.6	7926.7	8138.4	8343.3	8978.2	9028.1	9890.9	9645.5	8630.4	9109.0	10310.1
60°	8363.5	8331.2	8495.6	8798.9	9609.1	9688.7	10605.4	10194.2	8923.0	9495.9	10389.7
62.5°	9156.2	9075.3	9100.9	9369.2	10404.5	10509.7	11411.5	10672.8	9068.6	9646.9	9963.7
65°	10341.1	10202.3	10072.9	10258.9	11524.8	11628.6	12321.5	11048.9	9014.6	9354.3	8832.6
67.5°	11833.5	11696.0	11536.9	11712.1	13174.8	13257.0	13444.4	11260.5	8590.0	8227.3	6833.4
70°	13064.3	13013.0	13203.1	13924.3	15810.3	15813.0	14884.2	11085.3	7426.6	5833.2	3953.9
72.5°	12901.2	12870.1	13871.8	16101.5	19132.0	19060.5	16247.1	9758.8	5002.7	2631.5	1481.5
75°	10583.8	10784.7	12336.3	16062.4	20325.0	20315.6	15412.6	6203.9	2069.3	1090.6	765.7
77.5°	5675.4	5993.6	8009.0	11859.1	15866.9	16105.5	10835.9	2170.4	888.4	698.3	529.8
80°	1850.9	2128.6	3192.3	6038.1	10310.1	10265.7	4644.1	852.0	608.0	494.7	366.7
82.5°	785.9	818.3	1426.3	2851.2	5291.2	5209.0	1478.8	489.4	427.3	338.4	226.5
85°	307.4	343.8	629.6	1318.4	2291.7	2241.9	533.8	242.7	273.7	221.1	134.8
87.5°	101.1	122.7	225.1	451.6	713.1	687.5	130.8	83.6	118.6	101.1	48.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0	3323.0
2.5°	3351.3	3372.9	3398.5	3436.3	3468.6	3495.6	3523.9	3541.4	3548.2	3568.4	3567.0
5°	3375.6	3422.8	3486.1	3548.2	3608.8	3645.2	3677.6	3693.7	3708.6	3719.4	3722.1
7.5°	3416.0	3476.7	3576.5	3657.3	3708.6	3738.2	3759.8	3754.4	3759.8	3762.5	3766.5
10°	3451.1	3536.0	3654.7	3731.5	3770.6	3771.9	3766.5	3747.7	3738.2	3739.6	3742.3
12.5°	3492.9	3587.2	3715.3	3780.0	3790.8	3761.2	3738.2	3705.9	3693.7	3688.4	3685.7
15°	3549.5	3657.3	3781.4	3805.6	3778.7	3740.9	3701.8	3649.3	3622.3	3600.7	3607.5
17.5°	3618.3	3736.9	3832.6	3815.1	3757.1	3695.1	3631.7	3552.2	3496.9	3474.0	3475.4
20°	3714.0	3820.5	3871.7	3794.9	3707.2	3612.9	3505.0	3408.0	3356.7	3333.8	3331.1
22.5°	3829.9	3932.4	3909.4	3759.8	3635.8	3484.8	3350.0	3278.5	3252.9	3236.7	3239.4
25°	3968.8	4056.4	3936.4	3708.6	3518.5	3314.9	3211.1	3188.2	3176.1	3164.0	3164.0
27.5°	4149.4	4196.6	3956.6	3633.1	3335.2	3134.3	3096.5	3100.6	3096.5	3076.3	3080.4
30°	4388.0	4378.6	3975.5	3510.4	3124.9	2971.2	2973.9	2991.4	2994.1	2980.6	2987.4
32.5°	4702.1	4606.4	3984.9	3351.3	2924.0	2828.3	2831.0	2849.8	2863.3	2840.4	2851.2
35°	5082.3	4872.0	3970.1	3151.8	2769.0	2692.1	2671.9	2677.3	2681.3	2659.8	2674.6
37.5°	5525.8	5169.9	3904.0	2930.7	2640.9	2558.7	2515.5	2479.1	2457.6	2437.3	2450.8
40°	6012.4	5494.8	3782.7	2715.0	2498.0	2417.1	2352.4	2283.7	2210.9	2183.9	2196.0
42.5°	6522.0	5829.1	3635.8	2508.8	2333.5	2267.5	2198.7	2099.0	1989.8	1934.5	1941.2
45°	7050.5	6171.5	3491.5	2305.2	2165.0	2136.7	2057.2	1937.2	1818.6	1748.5	1743.1
47.5°	7568.1	6495.1	3279.9	2100.3	2007.3	2038.3	1976.3	1865.7	1733.6	1623.1	1611.0
50°	8062.9	6798.4	2933.4	1892.7	1879.2	2008.6	1949.3	1790.3	1639.3	1497.7	1485.6
52.5°	8553.6	7043.7	2489.9	1704.0	1810.5	2000.6	1914.3	1739.0	1554.3	1406.1	1389.9
55°	8970.1	7170.5	2062.6	1542.2	1710.7	1931.8	1872.5	1678.4	1434.4	1276.6	1263.2
57.5°	9207.4	7068.0	1706.7	1383.1	1573.2	1818.6	1801.0	1548.9	1291.5	1170.1	1154.0
60°	9105.0	6652.8	1415.5	1244.3	1442.4	1695.9	1677.0	1420.9	1182.3	1067.7	1051.5
62.5°	8540.1	5861.5	1185.0	1123.0	1323.8	1570.5	1553.0	1322.5	1098.7	988.1	970.6
65°	7402.3	4768.2	1005.7	1021.8	1203.8	1419.5	1445.1	1240.2	1032.6	924.8	907.3
67.5°	5645.8	3453.8	865.5	934.2	1086.6	1271.2	1345.4	1180.9	977.4	874.9	858.7
70°	3217.9	1961.5	746.8	849.3	982.8	1133.7	1268.5	1133.7	918.0	833.1	822.3
72.5°	1220.0	900.5	645.7	764.4	883.0	1017.8	1183.6	1059.6	849.3	785.9	775.1
75°	651.1	548.7	543.3	664.6	768.4	904.6	1077.1	986.8	798.1	830.4	857.4
77.5°	443.5	388.2	454.3	568.9	643.0	779.2	963.9	876.3	691.6	688.9	634.9
80°	307.4	275.0	369.4	458.3	497.4	655.2	841.2	752.2	563.5	525.8	502.8
82.5°	184.7	179.3	276.4	342.4	351.8	505.5	697.0	630.9	461.0	401.7	404.4
85°	101.1	106.5	176.6	200.9	204.9	353.2	546.0	488.0	354.5	297.9	300.6
87.5°	28.3	36.4	64.7	79.5	98.4	183.3	324.9	289.8	177.9	124.0	124.0
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)