

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: P949845

Luminaire Tested: **GALN-SB4C-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949845
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-722-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20643 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

Input Watts (W): 200.7
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

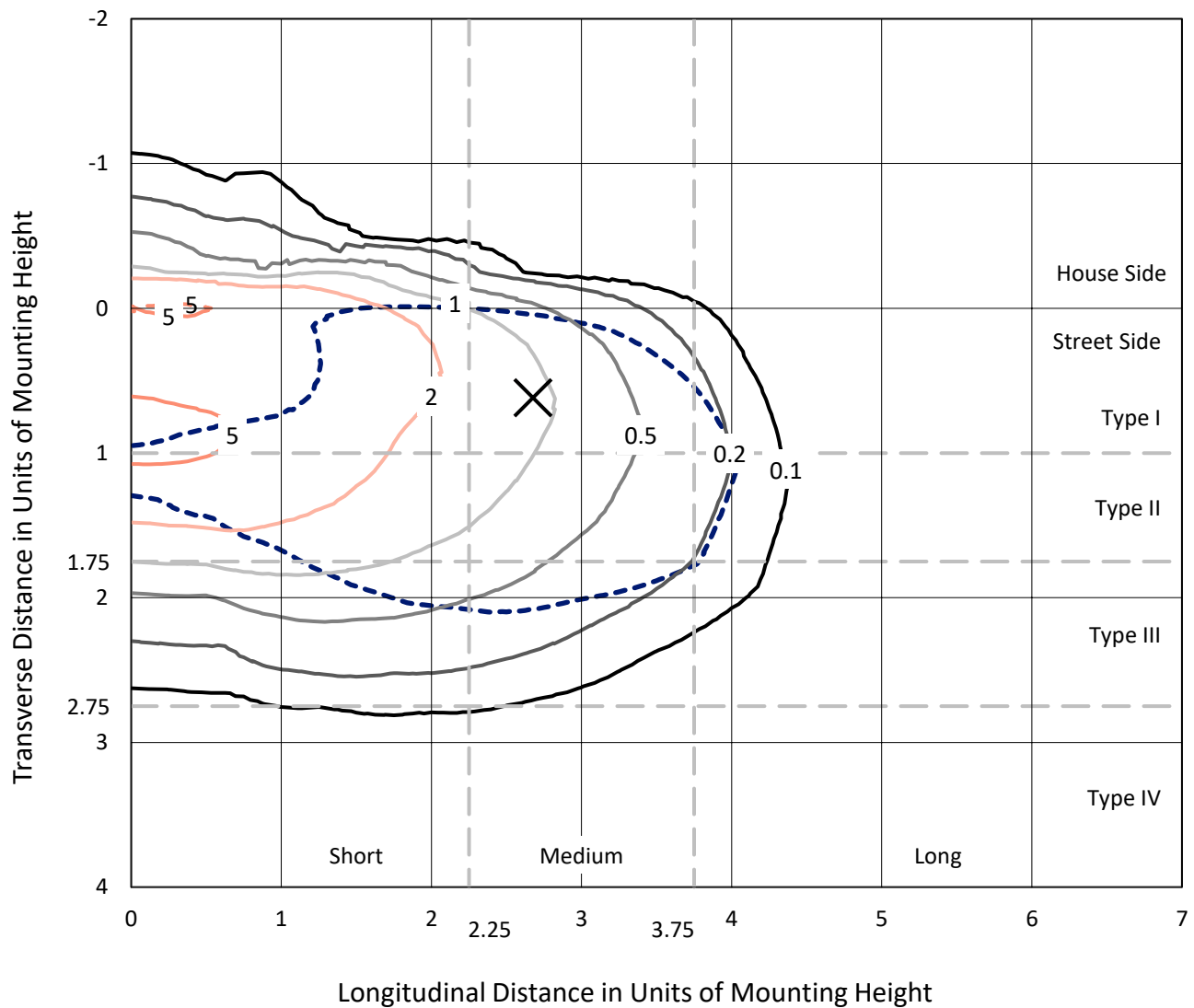


REPORT NUMBER: P949845

CATALOG NUMBER: GALN-SB4C-722-U-T3R-HSS

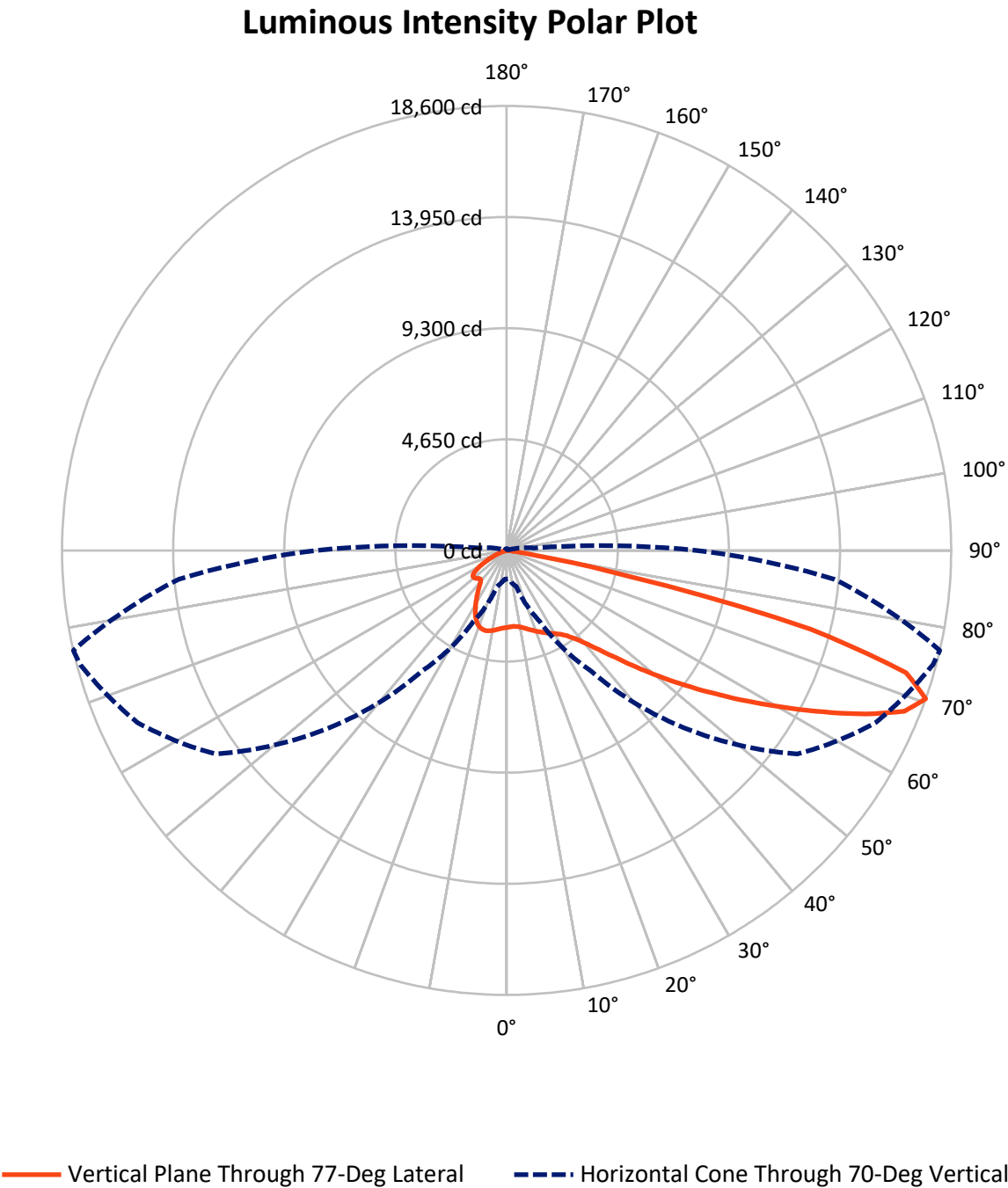
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 fc
Type III - Medium - N/A

REPORT NUMBER: P949845
CATALOG NUMBER: GALN-SB4C-722-U-T3R-HSS



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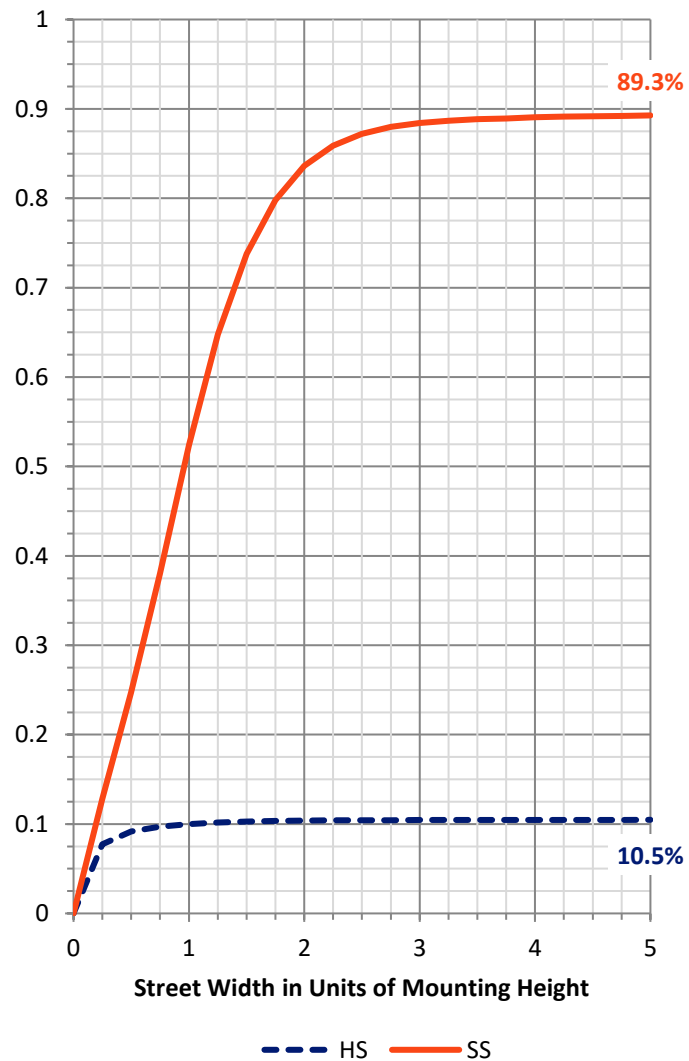
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2176.1	0.0	2176.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	18466.9	0.0	18466.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	20643.0	0.0	20643.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.5	1.3
10°-20°	658.8	3.2
20°-30°	1018.9	4.9
30°-40°	1848.9	9.0
40°-50°	3490.0	16.9
50°-60°	5042.8	24.4
60°-70°	5368.0	26.0
70°-80°	2844.6	13.8
80°-90°	93.4	0.5
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°	20643.0	100.0
0°-180°	20643.0	100.0

Coefficient of Utilization



REPORT NUMBER: P949845

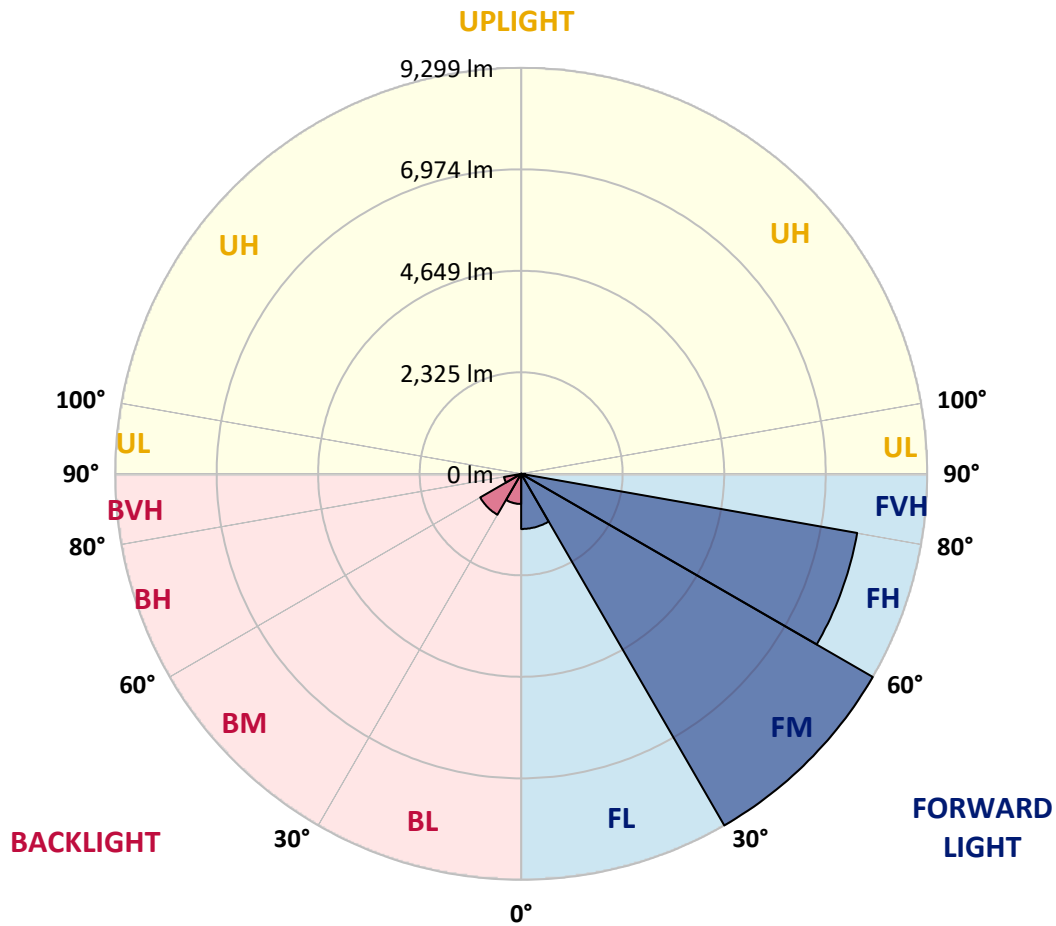
CATALOG NUMBER: GALN-SB4C-722-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1263.8	6.1			
FM	(30°-60°)	9298.5	45.0			
FH	(60°-80°)	7813.7	37.9			G4/12000
FVH	(80°-90°)	90.9	0.4			G1/100
BL	(0°-30°)	691.4	3.3	B2/1000		
BM	(30°-60°)	1083.3	5.2	B2/2500		
BH	(60°-80°)	398.9	1.9	B1/500		G1/500
BVH	(80°-90°)	2.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium



REPORT NUMBER: P949845

CATALOG NUMBER: GALN-SB4C-722-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9
2.5°	3023.1	3050.5	3046.6	3064.8	3071.3	3097.4	3123.5	3158.7	3197.8	3196.5	3222.5
5°	2852.3	2879.7	2886.2	2911.0	2942.3	2982.7	3036.1	3106.5	3179.5	3191.3	3243.4
7.5°	2650.3	2678.9	2695.9	2745.4	2802.8	2886.2	2973.6	3076.5	3197.8	3214.7	3315.1
10°	2448.2	2474.3	2496.4	2566.8	2658.1	2781.9	2924.0	3072.6	3235.6	3260.3	3402.4
12.5°	2323.0	2347.8	2372.6	2433.9	2547.3	2698.5	2891.4	3090.9	3298.2	3333.3	3521.1
15°	2278.7	2300.9	2320.4	2375.2	2480.8	2652.9	2884.9	3128.7	3377.7	3424.6	3664.5
17.5°	2285.2	2297.0	2310.0	2351.7	2454.7	2632.0	2896.6	3193.9	3471.5	3513.2	3807.9
20°	2323.0	2329.6	2330.9	2359.5	2450.8	2629.4	2920.1	3256.4	3560.2	3616.2	3950.0
22.5°	2371.3	2373.9	2371.3	2390.8	2475.6	2649.0	2951.4	3332.0	3659.3	3711.4	4093.4
25°	2596.8	2547.3	2484.7	2446.9	2517.3	2686.8	2998.3	3433.7	3767.5	3818.3	4232.8
27.5°	3296.8	3154.8	2930.5	2678.9	2603.3	2741.5	3063.5	3536.7	3877.0	3922.6	4382.8
30°	4433.6	4247.2	3866.5	3299.5	2879.7	2856.2	3148.2	3639.7	3993.0	4042.5	4543.1
32.5°	5573.0	5527.3	5088.0	4303.2	3501.5	3111.7	3289.0	3779.2	4146.8	4185.9	4759.5
35°	6725.4	6632.8	6273.0	5497.4	4459.7	3631.9	3523.7	3961.7	4348.9	4393.2	5075.0
37.5°	7607.9	7551.9	7328.9	6690.2	5596.4	4434.9	3925.2	4244.6	4642.2	4691.7	5479.1
40°	8387.5	8361.4	8285.8	7864.7	6867.5	5485.6	4549.6	4682.6	5048.9	5107.6	5974.5
42.5°	9000.2	9061.4	9104.5	8987.1	8177.6	6685.0	5389.2	5297.9	5616.0	5676.0	6605.4
45°	9627.2	9648.1	9821.5	9990.9	9478.6	7939.0	6335.6	6018.8	6321.2	6395.5	7361.5
47.5°	10030.0	10113.5	10418.5	10717.0	10572.3	9182.7	7352.4	6870.1	7138.6	7278.1	8208.9
50°	10060.0	10217.8	10637.5	11157.7	11368.8	10366.4	8457.9	7840.0	8125.4	8279.3	9113.6
52.5°	9560.7	9805.8	10456.3	11217.6	11799.0	11368.8	9601.1	8809.8	9176.2	9376.9	10052.2
55°	7330.2	7650.9	9774.5	10891.7	11816.0	12128.9	10714.4	9820.2	10346.8	10573.6	11066.4
57.5°	6386.4	6548.1	7684.8	10326.0	11501.8	12435.2	11720.8	10782.2	11620.4	11902.0	12024.6
60°	5313.5	5526.0	6445.1	9400.4	11075.5	12465.2	12609.9	12023.3	13001.0	13317.8	12903.2
62.5°	3611.0	3841.8	4755.6	7810.0	10492.8	12450.9	13338.6	13300.8	14535.3	14875.6	13647.6
65°	2237.0	2381.7	2984.0	6377.3	9678.1	12466.5	14101.2	14852.1	16154.4	16499.9	14223.8
67.5°	1767.7	1834.2	2148.4	4896.4	8274.1	12114.5	14862.5	16310.9	17678.4	17952.1	14399.8
70°	1187.6	1228.0	1563.0	3282.5	6155.7	10490.2	14848.2	17043.5	18463.1	18600.0	13758.4
72.5°	625.7	657.0	913.8	1520.0	3717.9	7456.7	12516.0	16167.5	17682.3	17476.3	11759.9
75°	312.9	365.0	615.3	771.7	1587.8	4158.5	7772.2	12746.8	13917.4	13119.6	7545.3
77.5°	237.3	286.8	508.4	508.4	552.7	1400.1	3291.6	6952.2	6412.5	5339.6	2214.8
80°	151.2	195.5	444.5	384.6	230.7	355.9	857.8	1947.6	1362.3	1036.4	402.8
82.5°	88.6	127.8	370.2	254.2	129.1	131.7	242.5	414.6	353.3	275.1	123.8
85°	35.2	83.4	254.2	100.4	50.8	32.6	73.0	88.6	73.0	54.8	31.3
87.5°	0.0	19.6	44.3	0.0	3.9	2.6	5.2	6.5	6.5	5.2	10.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P949845

CATALOG NUMBER: GALN-SB4C-722-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9	3219.9
2.5°	3234.3	3236.9	3244.7	3246.0	3227.8	3204.3	3195.2	3191.3	3175.6	3174.3	3176.9
5°	3273.4	3285.1	3273.4	3239.5	3158.7	3045.3	2959.2	2888.8	2824.9	2805.4	2793.7
7.5°	3351.6	3363.3	3328.1	3195.2	2991.8	2766.3	2562.9	2419.5	2290.5	2242.2	2222.7
10°	3463.7	3479.4	3368.5	3100.0	2740.2	2377.8	2033.6	1791.2	1602.1	1525.2	1492.6
12.5°	3604.5	3611.0	3390.7	2955.3	2413.0	1895.5	1407.9	1148.5	980.3	917.7	898.2
15°	3759.6	3750.5	3393.3	2758.5	1967.2	1340.1	919.1	754.8	687.0	666.1	666.1
17.5°	3922.6	3884.8	3341.2	2474.3	1478.3	916.4	681.8	642.7	631.0	625.7	624.4
20°	4082.9	3998.2	3246.0	2102.7	1061.1	684.4	619.2	607.5	601.0	598.4	595.8
22.5°	4228.9	4084.2	3083.1	1671.2	770.4	604.9	585.3	574.9	563.2	557.9	556.6
25°	4371.0	4133.8	2853.6	1268.4	616.6	565.8	550.1	530.6	514.9	508.4	505.8
27.5°	4509.2	4165.1	2566.8	938.6	550.1	529.3	500.6	473.2	461.5	458.9	456.3
30°	4656.5	4175.5	2240.9	700.0	509.7	483.6	441.9	410.6	404.1	405.4	405.4
32.5°	4836.4	4191.1	1912.4	573.6	475.8	428.9	379.4	346.8	341.5	346.8	345.5
35°	5051.5	4222.4	1595.6	528.0	445.8	372.8	319.4	292.0	286.8	290.7	289.4
37.5°	5343.5	4273.3	1299.7	518.8	421.1	325.9	268.5	246.4	246.4	247.7	246.4
40°	5732.0	4408.8	1035.1	512.3	408.0	290.7	226.8	217.7	221.6	224.2	224.2
42.5°	6205.2	4696.9	856.5	504.5	393.7	275.1	206.0	202.1	208.6	211.2	211.2
45°	6735.8	5061.9	793.9	491.5	380.7	285.5	196.8	191.6	199.5	200.8	202.1
47.5°	7284.6	5419.1	786.1	477.1	367.6	301.1	194.2	182.5	191.6	192.9	194.2
50°	7840.0	5652.5	793.9	455.0	346.8	301.1	195.5	173.4	181.2	185.1	186.4
52.5°	8399.2	5759.4	788.7	406.7	310.3	282.9	195.5	165.6	173.4	176.0	176.0
55°	8941.5	5738.5	709.2	335.0	263.3	250.3	190.3	159.0	164.3	165.6	165.6
57.5°	9370.4	5447.8	561.9	260.7	213.8	208.6	173.4	151.2	155.1	153.8	153.8
60°	9594.6	4809.0	401.5	200.8	168.2	164.3	152.5	140.8	143.4	136.9	135.6
62.5°	9597.2	3964.3	268.5	159.0	134.3	130.4	130.4	126.5	123.8	110.8	106.9
65°	9392.6	3027.0	178.6	126.5	108.2	101.7	109.5	108.2	99.1	80.8	78.2
67.5°	8928.5	1984.1	135.6	99.1	83.4	79.5	87.3	91.3	84.7	67.8	66.5
70°	7974.2	1155.0	112.1	76.9	62.6	58.7	70.4	78.2	70.4	54.8	52.1
72.5°	6623.7	623.1	91.3	57.4	43.0	39.1	56.1	63.9	56.1	40.4	39.1
75°	4298.0	333.7	70.4	37.8	22.2	24.8	41.7	46.9	39.1	26.1	23.5
77.5°	1443.1	147.3	44.3	18.3	10.4	10.4	24.8	28.7	18.3	9.1	7.8
80°	322.0	61.3	18.3	7.8	3.9	3.9	5.2	5.2	2.6	0.0	0.0
82.5°	105.6	24.8	7.8	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.4	9.1	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	15.6	1.3	0.0	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	0.0

(END OF REPORT)