

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: P941789

Luminaire Tested: **GALN-SB5C-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941789
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-SB5C-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34681 lumens
Efficiency: N/A
Efficacy: 139.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 249.5
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



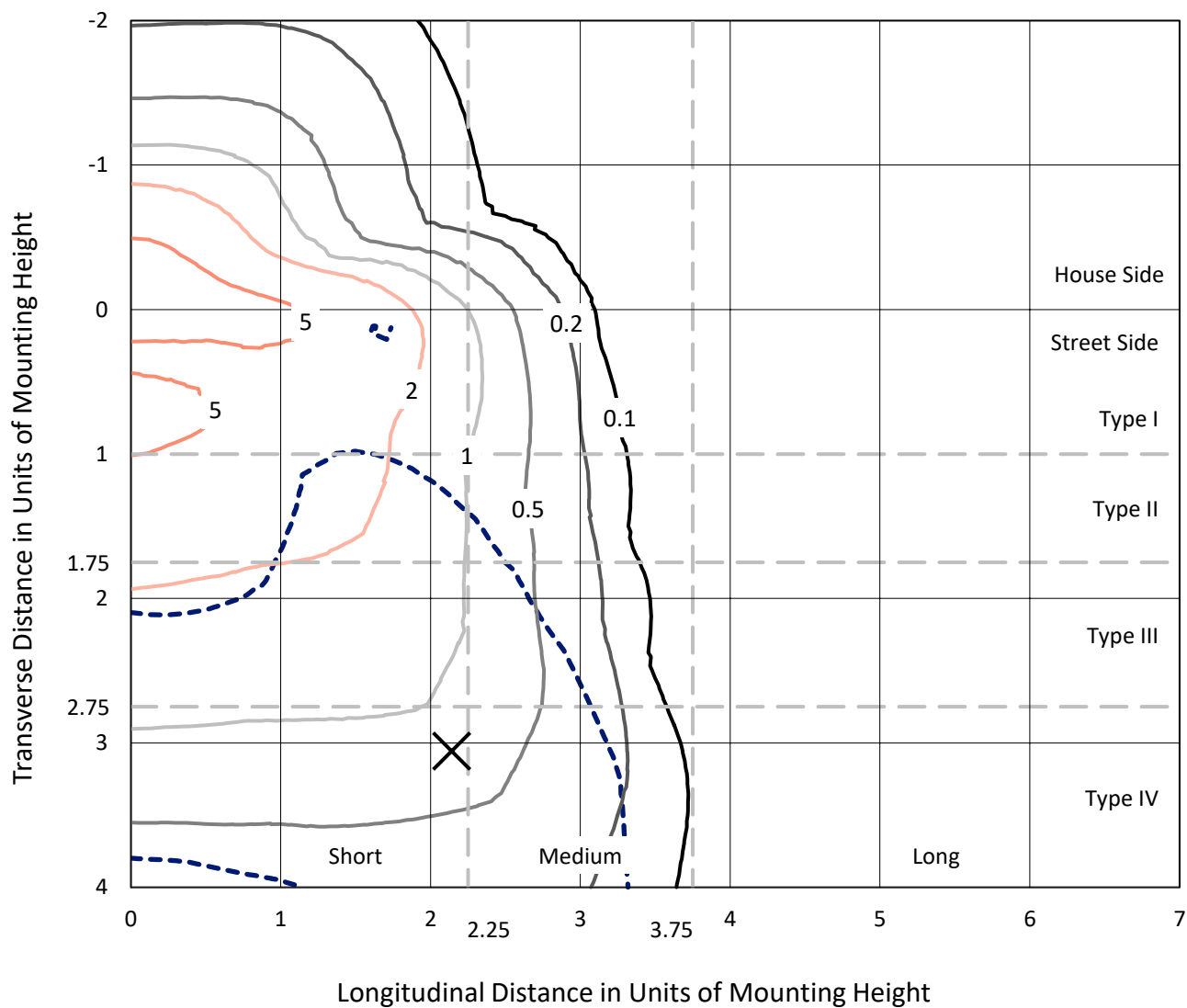
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Iso-Footcandle Lines of Horizontal Illumination

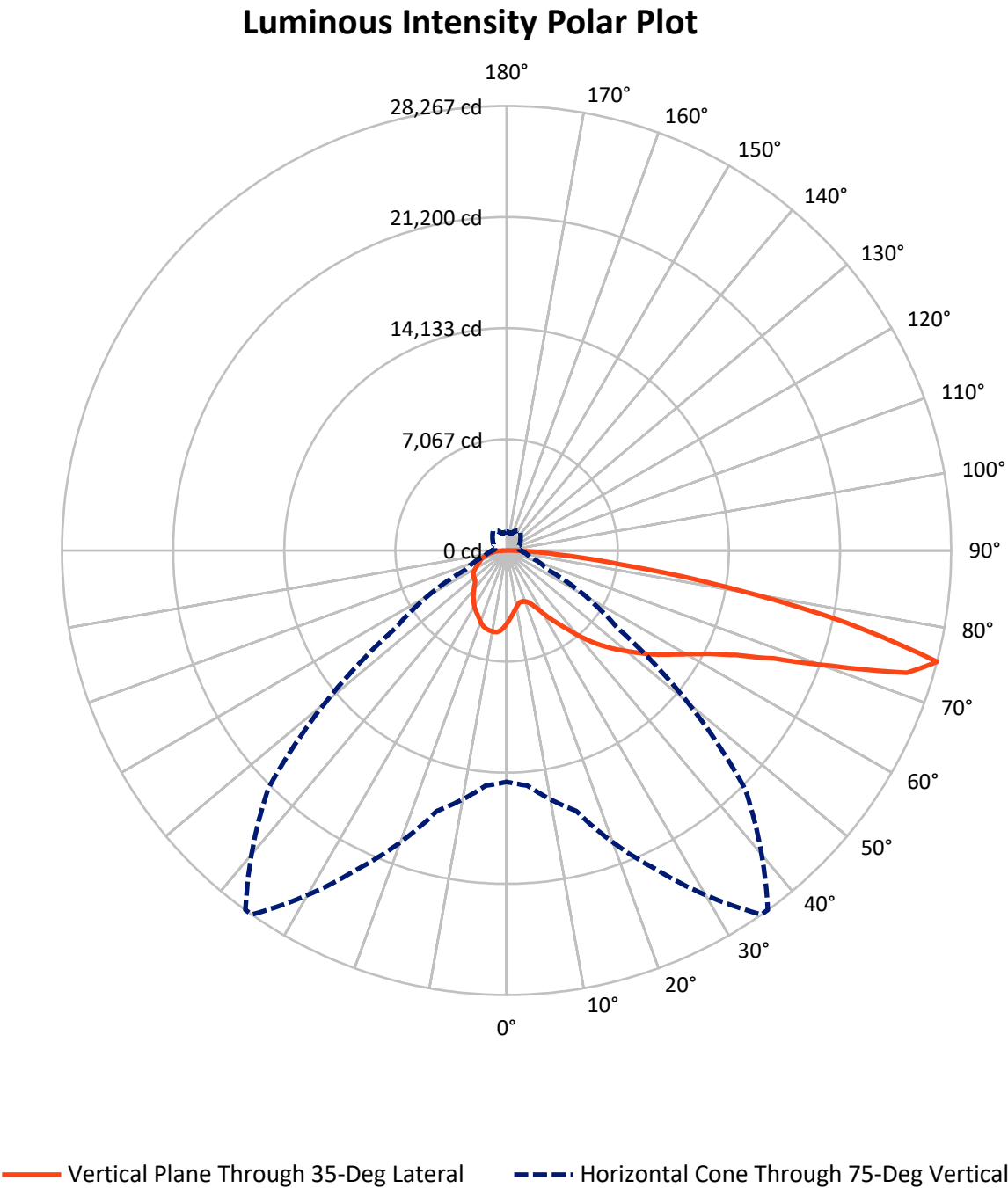
× Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
Type IV - Short - N/A

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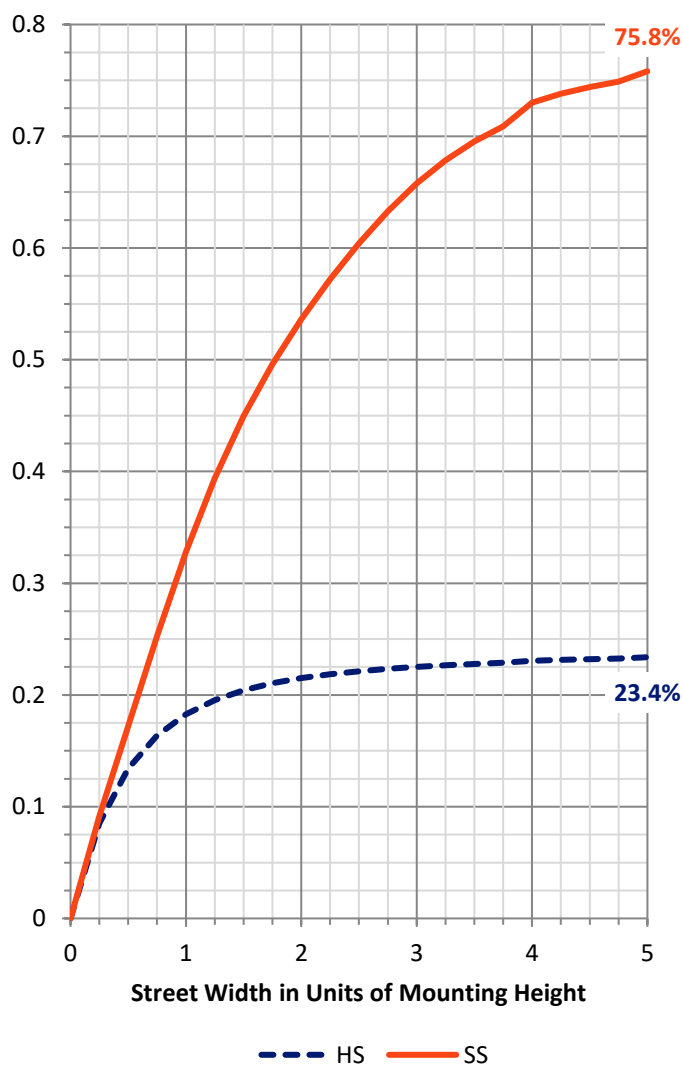
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8253.2	0.0	8253.2
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	26427.8	0.0	26427.8
	% Fixture	76.2	0.0	76.2
Total	Lumens	34681.0	0.0	34681.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.6	1.3
10°-20°	1262.1	3.6
20°-30°	2119.4	6.1
30°-40°	3293.9	9.5
40°-50°	4889.0	14.1
50°-60°	6749.6	19.5
60°-70°	8188.7	23.6
70°-80°	6767.4	19.5
80°-90°	973.4	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°	34681.0	100.0
0°-180°	34681.0	100.0

Coefficient of Utilization



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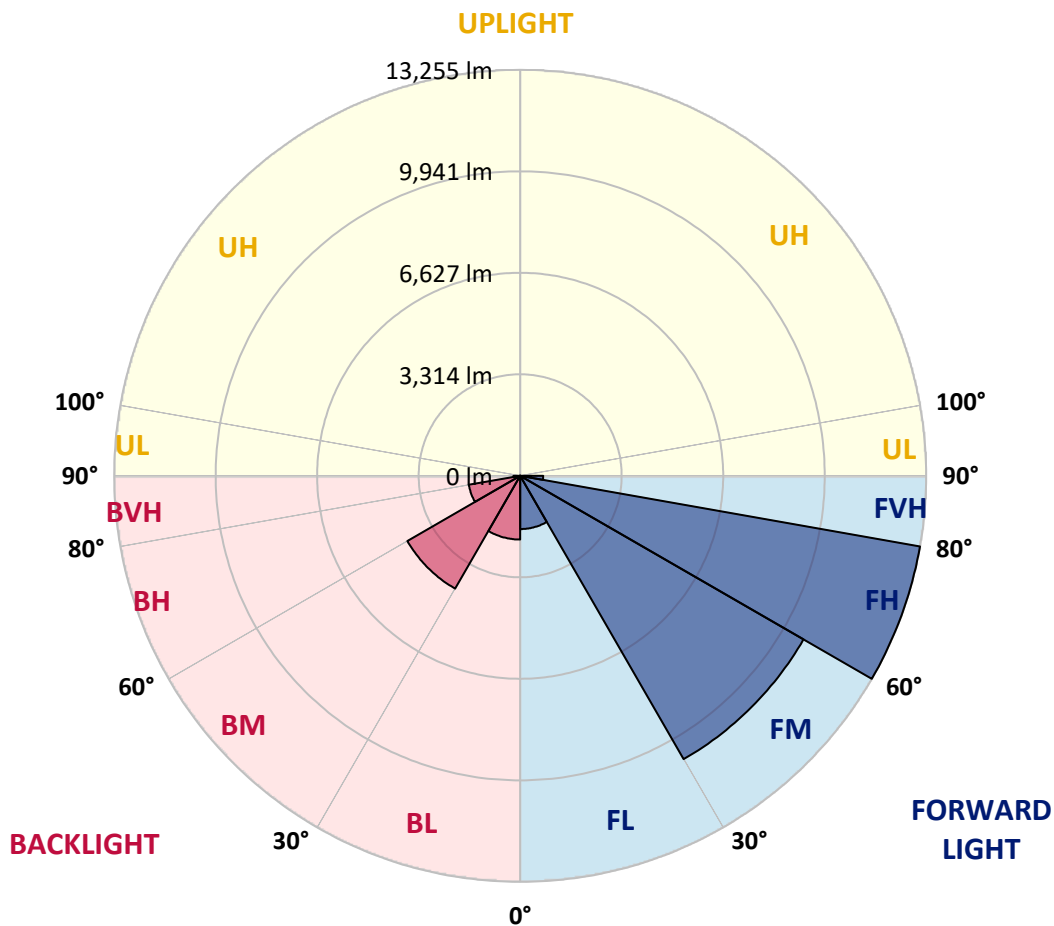
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1739.2	5.0			
FM	(30°-60°)	10679.9	30.8			
FH	(60°-80°)	13254.6	38.2			G5
FVH	(80°-90°)	754.2	2.2			G5
BL	(0°-30°)	2079.9	6.0	B3/2500		
BM	(30°-60°)	4252.6	12.3	B3/5000		
BH	(60°-80°)	1701.6	4.9	B3/2500		G3/2500
BVH	(80°-90°)	219.2	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5
2.5°	4261.5	4287.8	4299.0	4293.4	4321.5	4317.8	4357.1	4405.9	4473.4	4539.0	4634.6
5°	3933.4	3961.5	3985.9	4008.4	4062.8	4079.6	4141.5	4235.3	4359.0	4484.6	4642.1
7.5°	3627.8	3652.2	3689.7	3730.9	3822.8	3839.7	3942.8	4089.0	4261.5	4445.2	4662.7
10°	3378.5	3402.8	3442.2	3489.1	3603.4	3624.1	3755.3	3950.3	4175.3	4407.7	4685.2
12.5°	3271.6	3279.1	3301.6	3348.5	3447.8	3461.0	3605.3	3828.4	4090.9	4379.6	4719.0
15°	3266.0	3281.0	3282.8	3307.2	3389.7	3395.3	3528.4	3749.7	4038.4	4374.0	4769.6
17.5°	3322.2	3333.5	3316.6	3331.6	3401.0	3410.3	3515.3	3712.2	4021.5	4398.4	4855.8
20°	3472.2	3481.6	3431.0	3410.3	3461.0	3468.5	3571.6	3736.6	4038.4	4449.0	4973.9
22.5°	3790.9	3796.5	3672.8	3588.4	3592.2	3595.9	3685.9	3835.9	4104.0	4540.9	5123.9
25°	4287.8	4284.0	4087.1	3924.0	3830.3	3809.7	3869.7	3997.2	4214.6	4662.7	5317.0
27.5°	4869.0	4840.8	4644.0	4400.2	4195.9	4165.9	4152.8	4207.1	4372.1	4824.0	5553.3
30°	5525.2	5498.9	5287.0	4968.3	4685.2	4636.5	4512.7	4484.6	4606.5	5043.3	5881.4
32.5°	6245.1	6228.2	5975.1	5588.9	5210.2	5153.9	4945.8	4870.8	4966.4	5375.2	6338.8
35°	6848.8	6833.8	6623.8	6226.3	5763.3	5693.9	5482.0	5397.7	5446.4	5800.8	6936.9
37.5°	7394.4	7386.9	7206.9	6893.8	6415.7	6331.3	6093.2	6065.1	6055.7	6361.3	7662.5
40°	7900.6	7881.8	7694.3	7529.4	7175.0	7098.1	6888.2	6863.8	6792.5	7051.3	8483.6
42.5°	8461.1	8412.4	8140.6	8063.7	7968.1	7904.3	7778.7	7782.5	7625.0	7829.3	9353.6
45°	8918.6	8890.5	8611.1	8566.1	8669.3	8643.0	8751.7	8779.9	8474.3	8644.9	10257.2
47.5°	9409.8	9383.6	9147.3	9115.5	9394.8	9402.3	9786.7	9796.0	9303.0	9492.3	11162.8
50°	10015.4	9977.9	9743.5	9782.9	10096.0	10124.1	10827.2	10763.5	10066.0	10352.9	12060.8
52.5°	10414.7	10437.2	10386.6	10450.4	10877.8	10904.1	11850.9	11687.7	10821.6	11202.2	12942.0
55°	10709.1	10754.1	10911.6	11057.8	11702.7	11729.0	12816.4	12567.0	11447.8	11989.6	13770.7
57.5°	11087.8	11024.1	11318.4	11603.4	12486.4	12555.8	13755.7	13414.5	12002.7	12668.3	14338.8
60°	11631.5	11586.5	11815.2	12237.1	13363.9	13474.5	14749.4	14177.5	12409.6	13206.4	14449.4
62.5°	12733.9	12621.4	12657.0	13030.1	14470.0	14616.2	15870.5	14843.1	12612.0	13416.3	13856.9
65°	14381.9	14188.8	14008.8	14267.5	16028.0	16172.4	17136.0	15366.2	12537.0	13009.5	12283.9
67.5°	16457.3	16266.1	16044.9	16288.6	18322.8	18437.2	18697.8	15660.5	11946.5	11442.1	9503.6
70°	18169.1	18097.8	18362.2	19365.2	21988.1	21991.9	20700.1	15416.8	10328.5	8112.4	5498.9
72.5°	17942.2	17899.1	19292.1	22393.1	26607.7	26508.3	22595.6	13572.0	6957.5	3659.7	2060.4
75°	14719.4	14998.7	17156.7	22338.7	28266.9	28253.8	21435.0	8628.0	2877.9	1516.7	1064.9
77.5°	7893.1	8335.5	11138.4	16493.0	22066.9	22398.7	15070.0	3018.5	1235.5	971.2	736.8
80°	2574.2	2960.4	4439.6	8397.4	14338.8	14276.9	6458.8	1184.9	845.6	688.1	510.0
82.5°	1093.0	1138.0	1983.6	3965.3	7358.7	7244.4	2056.7	680.6	594.3	470.6	315.0
85°	427.5	478.1	875.5	1833.6	3187.2	3117.9	742.4	337.5	380.6	307.5	187.5
87.5°	140.6	170.6	313.1	628.1	991.8	956.2	181.9	116.2	165.0	140.6	67.5
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°	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5	4621.5
2.5°	4660.8	4690.8	4726.5	4779.0	4824.0	4861.5	4900.8	4925.2	4934.6	4962.7	4960.8
5°	4694.6	4760.2	4848.3	4934.6	5018.9	5069.6	5114.6	5137.1	5157.7	5172.7	5176.4
7.5°	4750.8	4835.2	4973.9	5086.4	5157.7	5198.9	5228.9	5221.4	5228.9	5232.7	5238.3
10°	4799.6	4917.7	5082.7	5189.6	5243.9	5245.8	5238.3	5212.1	5198.9	5200.8	5204.6
12.5°	4857.7	4988.9	5167.1	5257.0	5272.0	5230.8	5198.9	5153.9	5137.1	5129.6	5125.8
15°	4936.5	5086.4	5258.9	5292.7	5255.2	5202.7	5148.3	5075.2	5037.7	5007.7	5017.1
17.5°	5032.1	5197.1	5330.2	5305.8	5225.2	5138.9	5050.8	4940.2	4863.3	4831.5	4833.3
20°	5165.2	5313.3	5384.5	5277.7	5155.8	5024.6	4874.6	4739.6	4668.3	4636.5	4632.7
22.5°	5326.4	5468.9	5437.0	5228.9	5056.4	4846.5	4659.0	4559.6	4524.0	4501.5	4505.2
25°	5519.5	5641.4	5474.5	5157.7	4893.3	4610.2	4465.9	4434.0	4417.1	4400.2	4400.2
27.5°	5770.8	5836.4	5502.7	5052.7	4638.4	4359.0	4306.5	4312.1	4306.5	4278.4	4284.0
30°	6102.6	6089.5	5528.9	4882.1	4345.9	4132.1	4135.9	4160.3	4164.0	4145.3	4154.6
32.5°	6539.4	6406.3	5542.0	4660.8	4066.5	3933.4	3937.2	3963.4	3982.2	3950.3	3965.3
35°	7068.1	6775.7	5521.4	4383.4	3850.9	3744.1	3715.9	3723.4	3729.1	3699.1	3719.7
37.5°	7685.0	7190.0	5429.5	4075.9	3672.8	3558.4	3498.4	3447.8	3417.8	3389.7	3408.5
40°	8361.8	7641.8	5260.8	3775.9	3474.1	3361.6	3271.6	3176.0	3074.7	3037.2	3054.1
42.5°	9070.5	8106.8	5056.4	3489.1	3245.3	3153.5	3057.9	2919.1	2767.3	2690.4	2699.8
45°	9805.4	8583.0	4855.8	3206.0	3011.0	2971.6	2861.0	2694.1	2529.2	2431.7	2424.2
47.5°	10525.3	9033.0	4561.5	2921.0	2791.6	2834.8	2748.5	2594.8	2411.0	2257.3	2240.4
50°	11213.4	9454.8	4079.6	2632.3	2613.5	2793.5	2711.0	2489.8	2279.8	2082.9	2066.1
52.5°	11895.9	9796.0	3462.8	2369.8	2517.9	2782.3	2662.3	2418.5	2161.7	1955.5	1933.0
55°	12475.2	9972.3	2868.5	2144.8	2379.2	2686.6	2604.2	2334.2	1994.8	1775.5	1756.7
57.5°	12805.1	9829.8	2373.5	1923.6	2187.9	2529.2	2504.8	2154.2	1796.1	1627.4	1604.9
60°	12662.7	9252.3	1968.6	1730.5	2006.1	2358.5	2332.3	1976.1	1644.2	1484.9	1462.4
62.5°	11877.1	8151.8	1648.0	1561.7	1841.1	2184.2	2159.8	1839.2	1528.0	1374.3	1349.9
65°	10294.7	6631.3	1398.6	1421.1	1674.2	1974.2	2009.8	1724.9	1436.1	1286.1	1261.8
67.5°	7851.8	4803.3	1203.6	1299.3	1511.1	1768.0	1871.1	1642.4	1359.3	1216.8	1194.3
70°	4475.2	2727.9	1038.7	1181.1	1366.8	1576.7	1764.2	1576.7	1276.8	1158.7	1143.7
72.5°	1696.7	1252.4	898.0	1063.0	1228.0	1415.5	1646.1	1473.6	1181.1	1093.0	1078.0
75°	905.5	763.1	755.6	924.3	1068.7	1258.0	1498.0	1372.4	1109.9	1154.9	1192.4
77.5°	616.8	540.0	631.8	791.2	894.3	1083.7	1340.5	1218.6	961.8	958.0	883.0
80°	427.5	382.5	513.7	637.4	691.8	911.2	1169.9	1046.2	783.7	731.2	699.3
82.5°	256.9	249.4	384.3	476.2	489.3	703.1	969.3	877.4	641.2	558.7	562.5
85°	140.6	148.1	245.6	279.4	285.0	491.2	759.3	678.7	493.1	414.3	418.1
87.5°	39.4	50.6	90.0	110.6	136.9	255.0	451.8	403.1	247.5	172.5	172.5
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)