

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: P957345

Luminaire Tested: **GALN-SB9D-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9D-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 76418 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 658
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



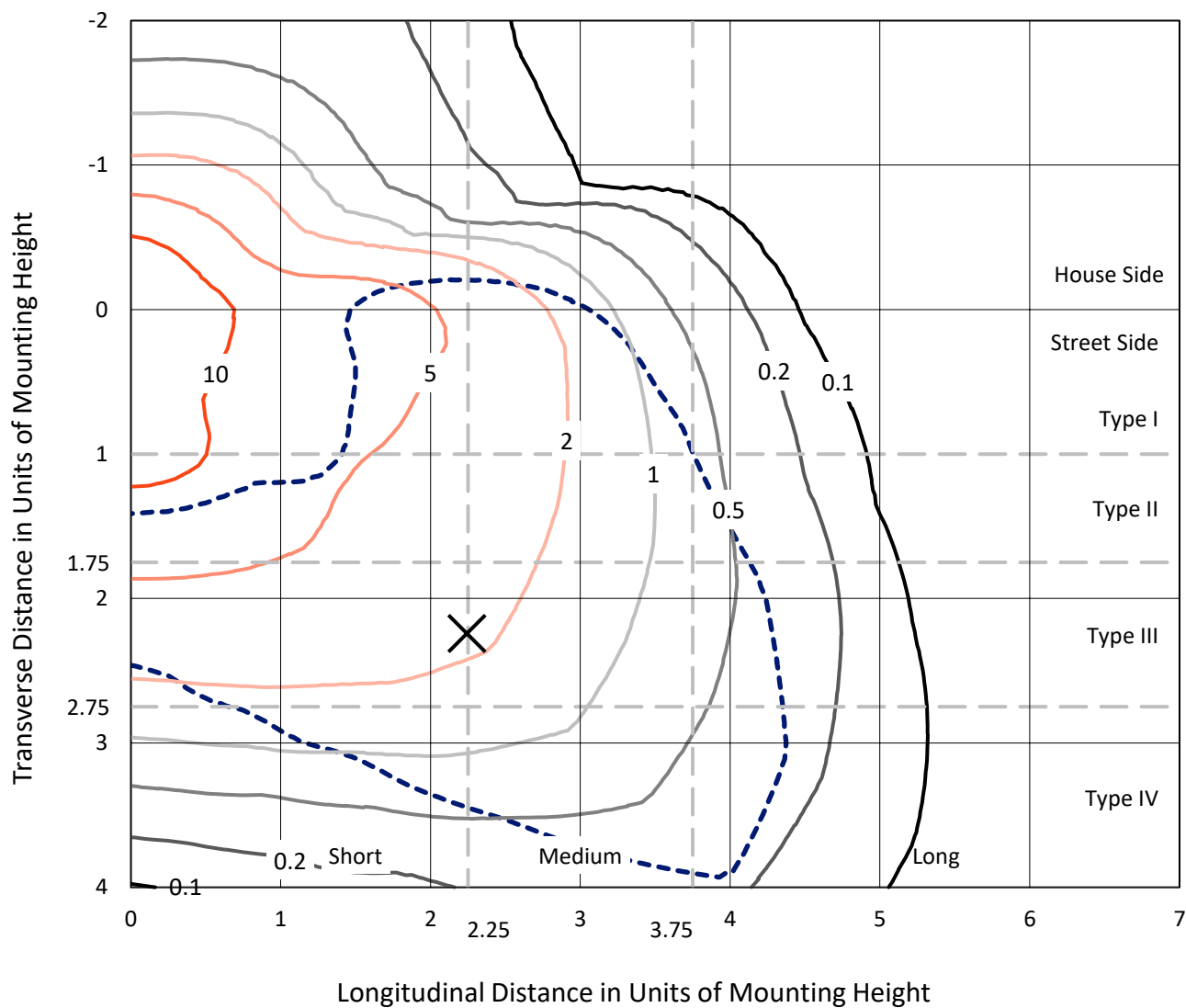
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



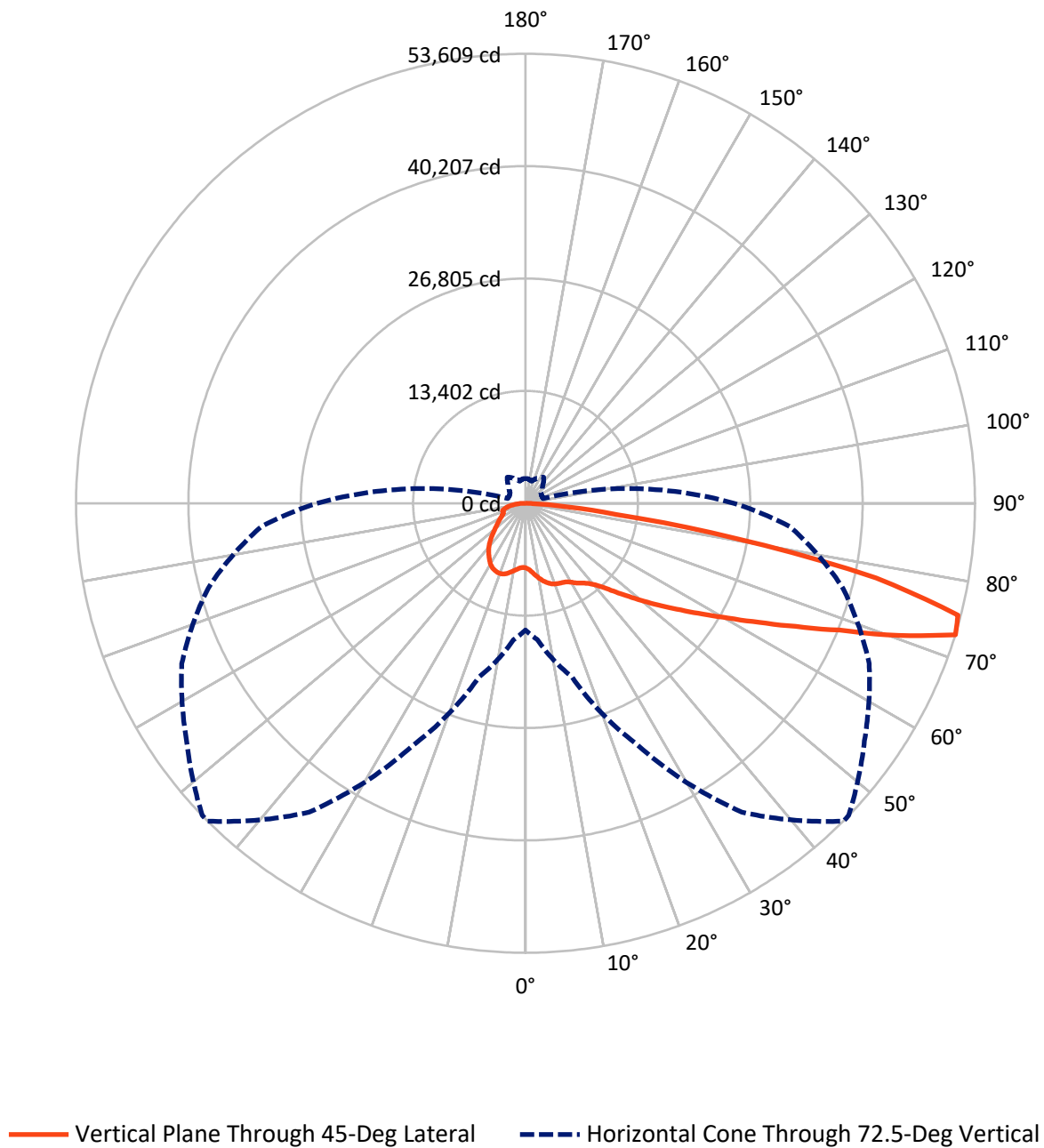
Based on 25 foot mounting height. Maximum calculated value = 15.3 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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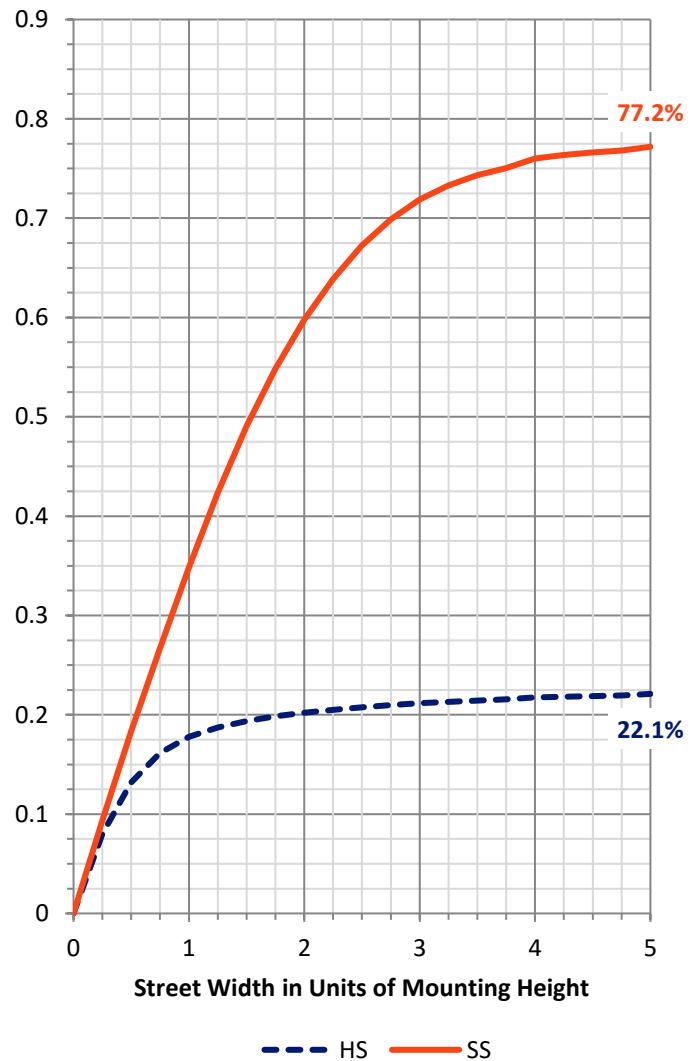
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17275.5	0.0	17275.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	59142.5	0.0	59142.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	76418.0	0.0	76418.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	784.6	1.0
10°-20°	2616.1	3.4
20°-30°	4550.8	6.0
30°-40°	6523.8	8.5
40°-50°	9185.9	12.0
50°-60°	14070.1	18.4
60°-70°	20382.7	26.7
70°-80°	16276.8	21.3
80°-90°	2027.2	2.7
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°	76418.0	100.0
0°-180°	76418.0	100.0

Coefficient of Utilization



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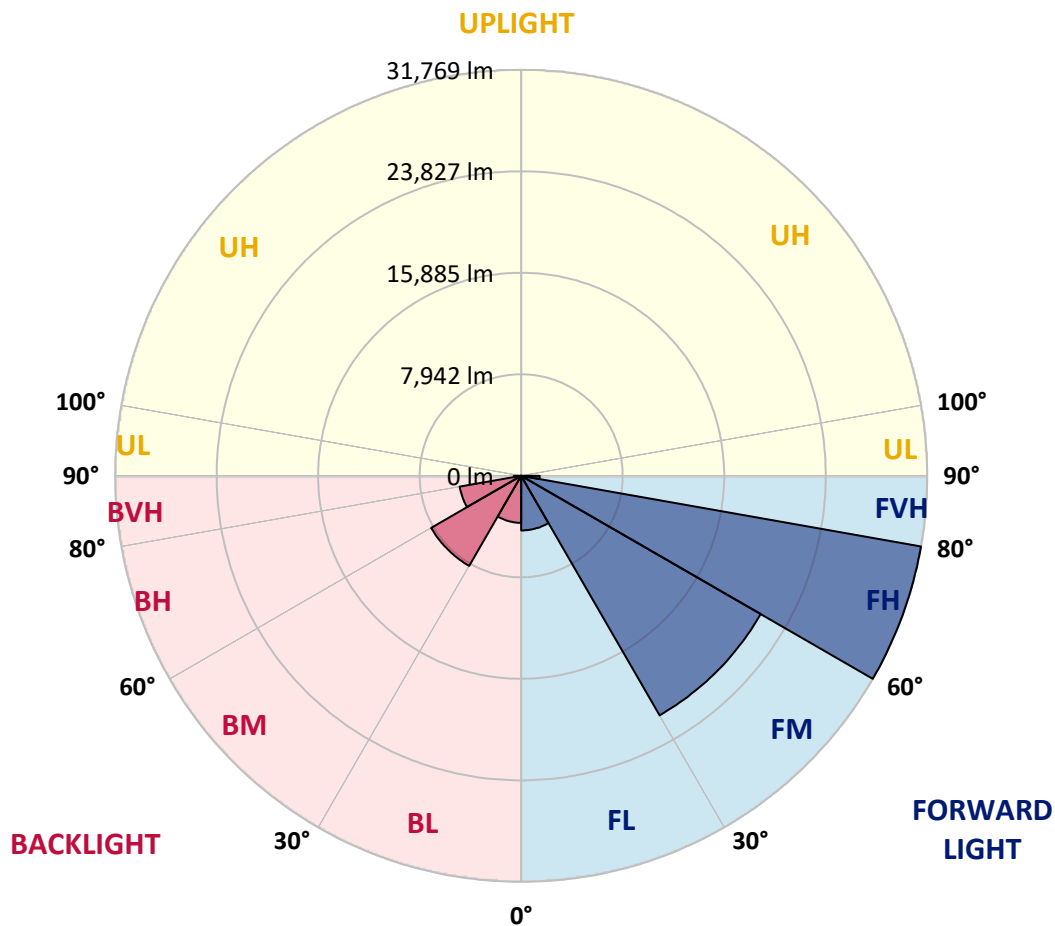
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4273.4	5.6			
FM	(30°-60°)	21645.6	28.3			
FH	(60°-80°)	31769.2	41.6			G5
FVH	(80°-90°)	1454.3	1.9			G5
BL	(0°-30°)	3678.1	4.8	B4/5000		
BM	(30°-60°)	8134.3	10.6	B4/8500		
BH	(60°-80°)	4890.2	6.4	B4/5000		G4/5000
BVH	(80°-90°)	572.9	0.7			G4/750
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1
2.5°	8011.0	8063.3	8015.0	7970.8	7950.6	7898.3	7894.3	7862.1	7841.9	7785.6	7769.5
5°	8570.6	8639.0	8558.5	8469.9	8389.4	8260.6	8244.5	8151.9	8047.2	7926.5	7858.0
7.5°	9202.6	9263.0	9170.4	9037.5	8896.7	8683.3	8679.3	8510.2	8345.1	8139.8	8023.1
10°	9754.1	9834.6	9709.8	9528.7	9351.5	9110.0	9081.8	8888.6	8679.3	8413.6	8236.4
12.5°	10241.2	10297.6	10176.8	9955.4	9750.1	9508.5	9472.3	9259.0	9025.5	8723.5	8498.1
15°	10627.7	10700.1	10539.1	10301.6	10084.2	9846.7	9814.5	9621.3	9387.8	9069.8	8779.9
17.5°	10881.3	10941.7	10776.6	10510.9	10301.6	10104.3	10080.2	9919.2	9713.9	9391.8	9081.8
20°	10977.9	11042.3	10869.2	10599.5	10406.3	10253.3	10241.2	10124.5	9983.6	9689.7	9375.7
22.5°	11074.5	11134.9	10909.5	10627.7	10458.6	10362.0	10358.0	10281.5	10225.1	9983.6	9677.6
25°	11465.0	11481.1	11179.2	10772.6	10531.1	10446.5	10442.5	10438.5	10462.6	10273.4	10003.7
27.5°	11803.2	11799.1	11541.5	11159.1	10784.7	10607.5	10603.5	10643.8	10720.3	10563.3	10341.9
30°	12298.3	12254.0	11948.1	11549.5	11207.4	10933.6	10909.5	10873.2	10933.6	10808.8	10680.0
32.5°	13349.0	13208.1	12713.0	12004.4	11557.6	11348.3	11316.1	11090.6	11114.8	11038.3	10973.9
35°	14854.6	14669.4	14009.2	12865.9	11992.4	11694.5	11678.4	11392.5	11344.2	11275.8	11300.0
37.5°	16646.0	16416.5	15647.6	14113.9	12741.1	12097.0	12072.9	11815.2	11618.0	11545.5	11682.4
40°	18445.5	18155.6	17519.6	15635.6	13844.2	12769.3	12692.8	12302.3	12076.9	11956.1	12246.0
42.5°	20192.6	19951.0	19407.6	17342.4	15204.8	13751.6	13582.5	12914.2	12745.2	12632.4	13155.8
45°	21738.4	21521.0	21122.5	19166.0	16799.0	15088.1	14923.0	13832.1	13779.7	13779.7	14536.6
47.5°	22994.4	22946.1	22523.4	21025.9	18678.9	16609.8	16323.9	15108.2	15249.1	15466.5	16497.0
50°	24387.3	24254.4	23803.6	22857.5	20889.0	18352.9	18119.4	16674.2	17201.5	17797.3	19331.1
52.5°	25667.4	25739.9	25236.7	24765.7	23384.9	20297.2	19886.6	18521.9	19661.2	20647.5	22652.2
55°	26983.8	26987.8	26847.0	26782.5	26001.6	22446.9	21996.1	20744.1	22555.6	23779.4	26524.9
57.5°	28219.7	28227.7	28437.1	29004.7	29036.9	24926.7	24415.5	23473.5	25772.1	27020.1	30518.3
60°	29322.7	29379.1	29950.7	31279.2	31705.9	27768.8	27285.7	26698.0	29097.3	30353.3	34717.1
62.5°	29693.1	29898.4	31170.5	33058.5	34342.7	31255.0	30780.0	30429.8	32591.5	33759.0	38227.4
65°	29065.1	29536.1	31995.7	34527.9	37056.0	35397.4	34926.4	34544.0	36222.7	37321.7	41109.8
67.5°	27523.3	28131.1	31947.4	36069.7	40348.9	40381.1	39942.3	39044.6	40115.4	40538.1	42047.7
70°	23461.4	24371.2	29133.5	36645.3	44129.0	47196.5	46773.8	44463.1	44000.2	41955.2	39406.9
72.5°	15116.3	16340.0	21452.6	31907.2	44970.4	53609.4	53585.2	49354.3	45228.0	39201.6	31605.3
75°	5515.1	6263.9	9967.5	20027.5	37748.4	53283.3	53440.3	48516.9	41286.9	30280.8	19689.4
77.5°	2008.8	2198.0	3252.7	7697.0	23215.8	42752.2	43078.3	38787.0	29387.1	15196.8	7801.7
80°	1054.7	1159.4	1666.6	2987.0	9947.3	25389.7	25900.9	23050.8	13811.9	4577.1	2338.9
82.5°	583.7	632.0	933.9	1622.3	4480.5	10857.1	11163.1	9106.0	4858.9	1940.4	966.2
85°	314.0	334.1	438.8	885.6	2189.9	3764.0	3848.5	2721.3	1936.3	1139.3	467.0
87.5°	92.6	112.7	144.9	281.8	857.5	845.4	865.5	539.4	764.9	575.7	153.0
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°	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1	7709.1
2.5°	7745.3	7733.2	7689.0	7668.8	7644.7	7640.7	7660.8	7664.8	7668.8	7672.9	7689.0
5°	7817.8	7777.5	7737.3	7713.1	7721.2	7725.2	7765.4	7793.6	7813.8	7829.9	7837.9
7.5°	7958.7	7926.5	7858.0	7854.0	7866.1	7902.3	7954.7	8019.1	8055.3	8083.5	8091.5
10°	8168.0	8107.6	8027.1	8039.2	8063.3	8115.7	8224.4	8276.7	8337.1	8389.4	8377.3
12.5°	8381.4	8329.0	8236.4	8244.5	8284.8	8377.3	8482.0	8546.4	8586.7	8626.9	8643.0
15°	8659.1	8566.5	8465.9	8465.9	8538.4	8639.0	8687.3	8739.7	8763.8	8808.1	8824.2
17.5°	8945.0	8824.2	8691.3	8683.3	8771.9	8820.2	8848.3	8856.4	8864.4	8912.8	8928.9
20°	9230.8	9097.9	8908.7	8892.6	8912.8	8904.7	8900.7	8892.6	8904.7	8965.1	8989.2
22.5°	9512.6	9359.6	9097.9	9025.5	8969.1	8892.6	8888.6	8884.6	8892.6	8953.0	8993.3
25°	9842.7	9657.5	9307.3	9089.9	8900.7	8796.0	8808.1	8812.1	8820.2	8868.5	8932.9
27.5°	10201.0	9995.6	9500.5	9069.8	8727.6	8655.1	8635.0	8647.1	8675.2	8751.7	8828.2
30°	10559.2	10317.7	9677.6	8989.2	8510.2	8409.5	8345.1	8373.3	8461.9	8538.4	8622.9
32.5°	10885.3	10643.8	9818.5	8812.1	8232.4	8075.4	7990.9	8027.1	8115.7	8143.9	8244.5
35°	11267.7	10994.0	9878.9	8530.3	7930.5	7689.0	7576.2	7523.9	7568.2	7540.0	7628.6
37.5°	11694.5	11408.6	9870.9	8160.0	7576.2	7298.5	7141.5	6944.2	6851.6	6755.0	6815.4
40°	12326.5	11915.9	9774.2	7713.1	7137.4	6883.8	6602.0	6267.9	6058.6	5869.4	5881.5
42.5°	13188.0	12620.4	9597.1	7222.0	6642.3	6404.8	6022.3	5631.9	5301.8	4987.8	4959.6
45°	14472.2	13542.2	9375.7	6698.7	6106.9	5873.4	5458.8	5020.0	4645.6	4243.0	4194.7
47.5°	16323.9	14782.1	9166.4	6102.9	5543.3	5329.9	4955.6	4549.0	4106.1	3715.7	3671.4
50°	18868.1	16561.5	8973.1	5523.2	4987.8	4826.7	4528.8	4114.2	3667.4	3353.4	3333.2
52.5°	22104.8	18980.9	8892.6	4963.6	4468.5	4408.1	4170.6	3784.1	3361.4	3095.7	3075.6
55°	25820.4	21875.3	8892.6	4428.2	4013.6	4033.7	3868.6	3510.4	3144.0	2906.5	2882.4
57.5°	29612.6	24806.0	8731.6	3933.0	3627.1	3711.6	3607.0	3293.0	2962.9	2717.3	2677.0
60°	33106.8	27261.6	8079.4	3482.2	3284.9	3417.8	3349.3	3079.6	2677.0	2471.7	2439.5
62.5°	35791.9	28646.4	6823.4	3123.9	3003.1	3156.1	3119.9	2797.8	2624.7	2540.2	2512.0
65°	37136.5	28421.0	5217.2	2805.9	2765.6	3003.1	2926.6	2914.6	2777.7	2681.1	2648.9
67.5°	36311.2	26480.6	3784.1	2572.4	2628.7	2862.2	3156.1	3204.4	2950.8	2761.6	2729.4
70°	32692.2	22970.3	2817.9	2351.0	2455.6	2866.3	3598.9	3353.4	2894.4	2673.0	2636.8
72.5°	24870.4	17129.1	2185.9	2117.5	2230.2	2886.4	3796.2	3284.9	2733.4	2954.8	2930.7
75°	14222.6	9403.9	1755.2	1831.7	1948.4	2697.2	3695.5	3107.8	2608.6	2713.3	2713.3
77.5°	5422.5	3615.0	1449.2	1549.9	1566.0	2355.0	3534.5	3095.7	2483.8	2423.4	2210.1
80°	1880.0	1413.0	1199.6	1231.8	1211.7	2093.3	3389.6	2693.1	2032.9	1819.6	1759.2
82.5°	768.9	704.5	950.0	909.8	861.5	1626.4	2737.4	2202.0	1662.6	1469.4	1453.3
85°	334.1	446.8	628.0	551.5	499.2	1127.2	2194.0	1863.9	1404.9	1211.7	1207.7
87.5°	68.4	169.1	265.7	249.6	257.6	752.8	1557.9	1324.4	994.3	744.7	583.7
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)