

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: P943309

Luminaire Tested: **GALN-SB7D-722-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943309
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-SB7D-722-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59088 lumens
Efficiency: N/A
Efficacy: 115.2 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): 512.8
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

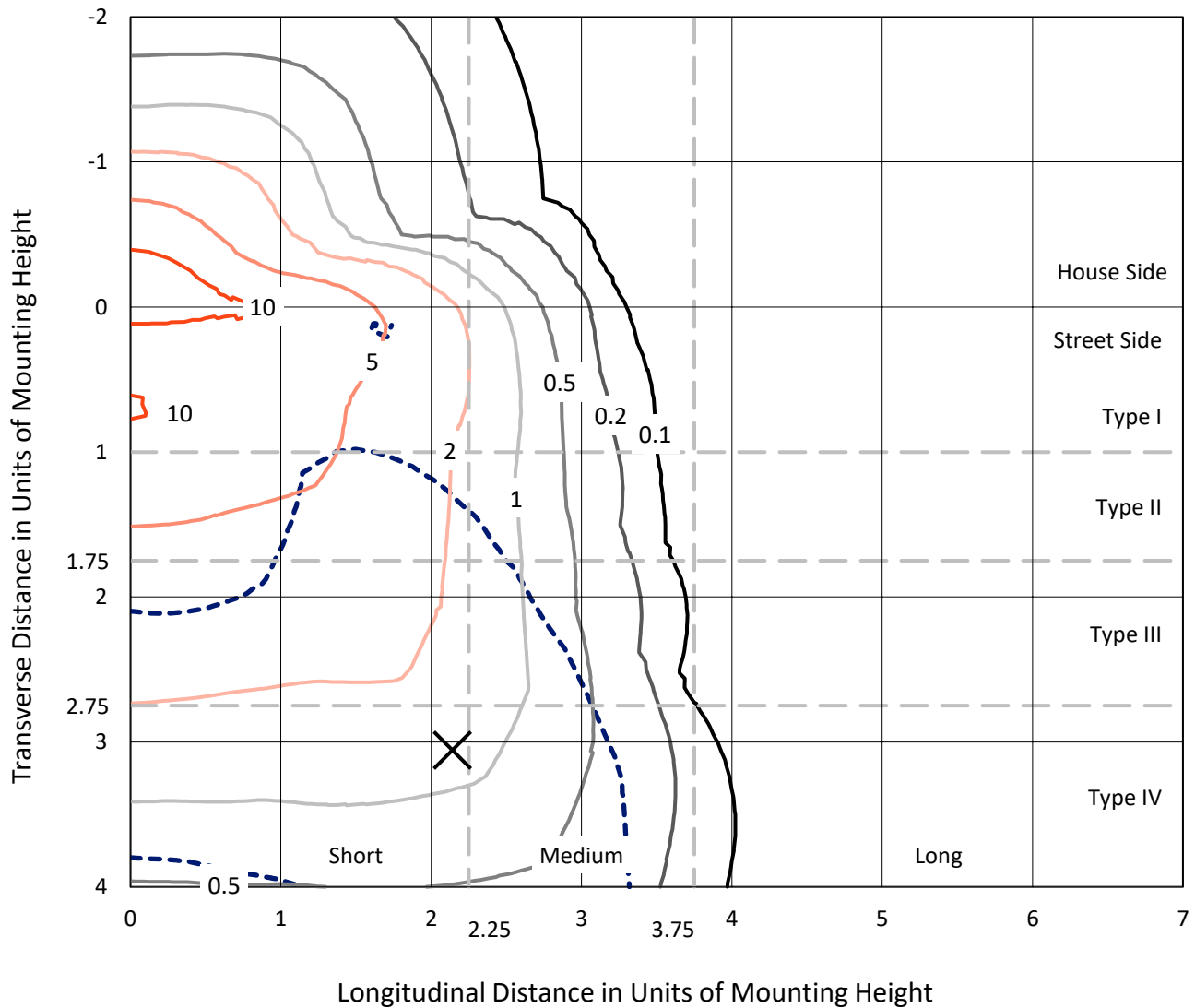


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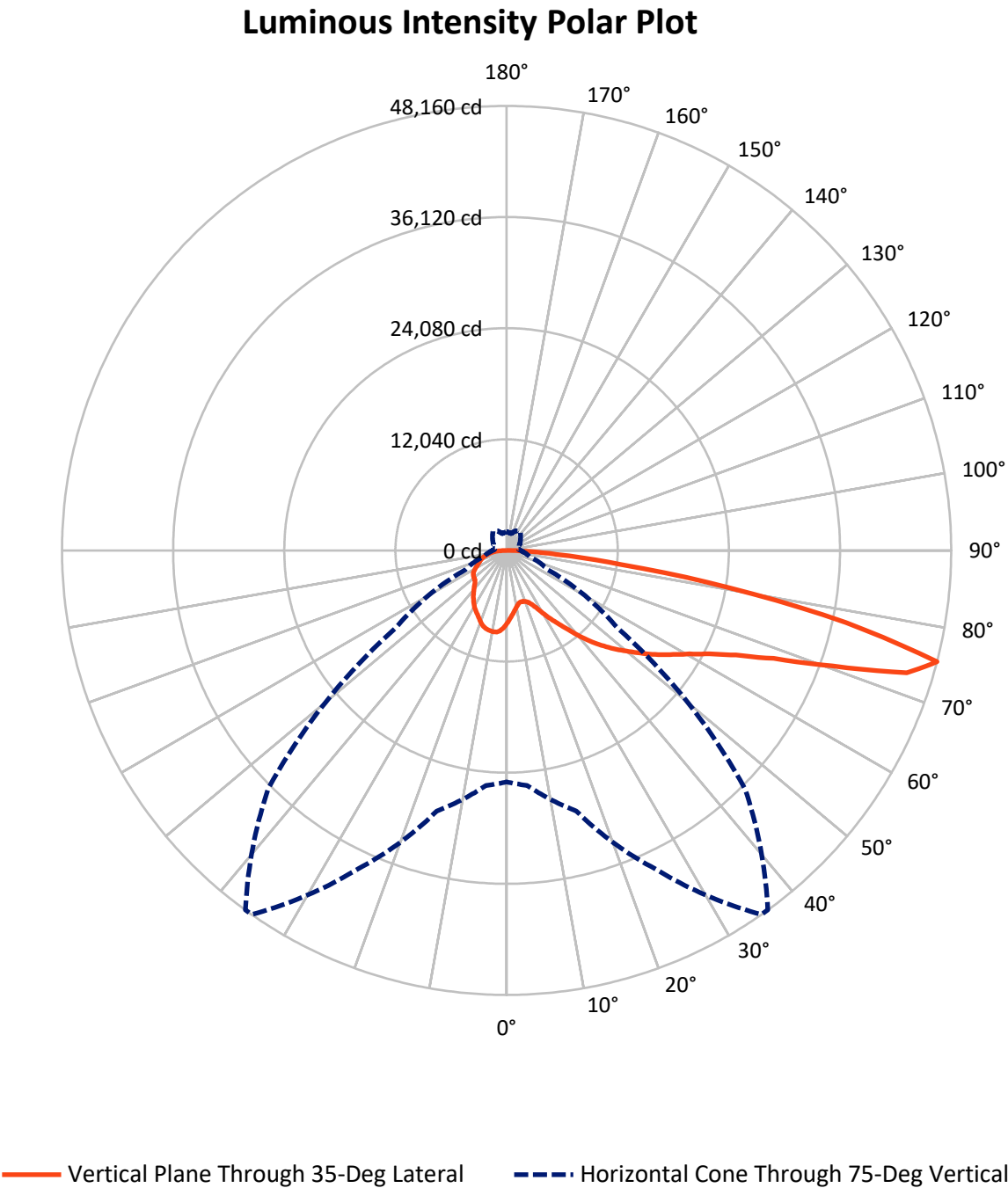
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc
 Type IV - Short - N/A

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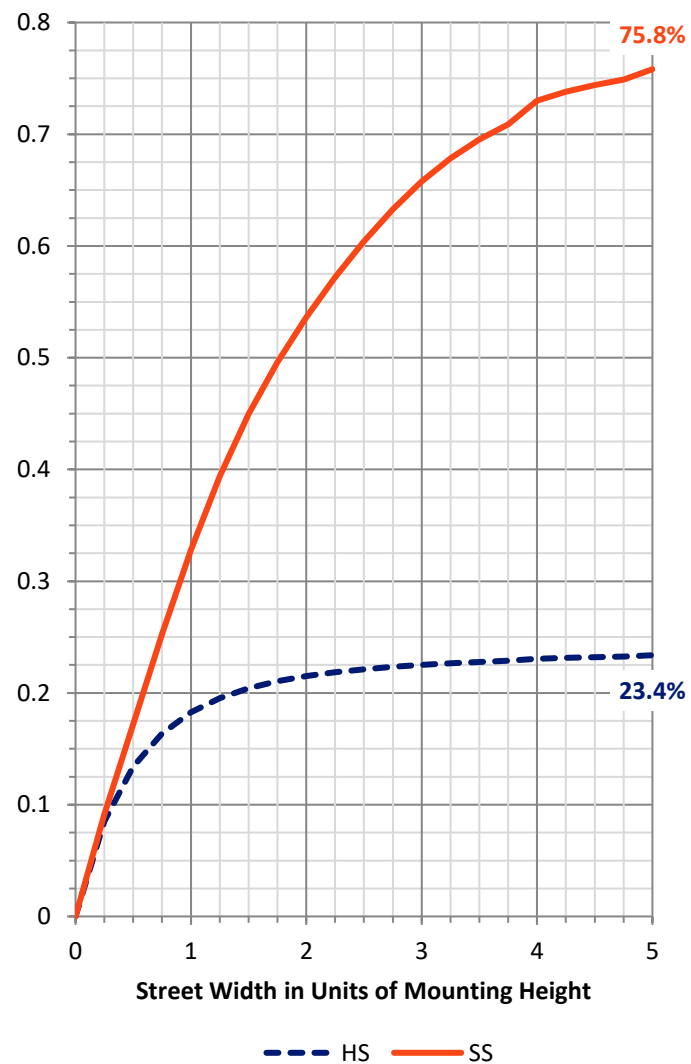
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14061.5	0.0	14061.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	45026.5	0.0	45026.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	59088.0	0.0	59088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	745.5	1.3
10°-20°	2150.3	3.6
20°-30°	3611.0	6.1
30°-40°	5612.0	9.5
40°-50°	8329.7	14.1
50°-60°	11499.6	19.5
60°-70°	13951.6	23.6
70°-80°	11530.0	19.5
80°-90°	1658.4	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°	59088.0	100.0
0°-180°	59088.0	100.0

Coefficient of Utilization



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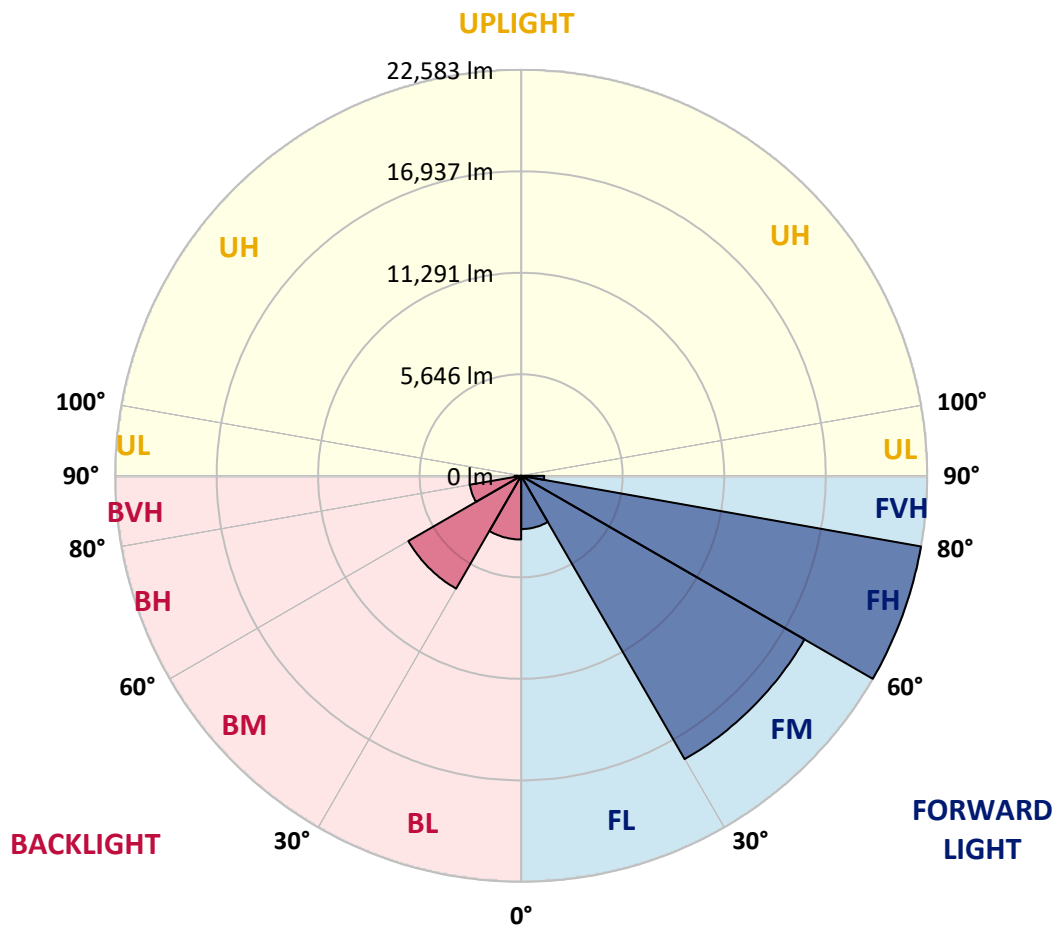
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2963.1	5.0			
FM	(30°-60°)	18195.9	30.8			
FH	(60°-80°)	22582.5	38.2			G5
FVH	(80°-90°)	1284.9	2.2			G5
BL	(0°-30°)	3543.7	6.0	B4/5000		
BM	(30°-60°)	7245.3	12.3	B4/8500		
BH	(60°-80°)	2899.0	4.9	B4/5000		G4/5000
BVH	(80°-90°)	373.4	0.6			G3/500
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°	36°	45°	55°	65°	75°	85°
0°	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9
2.5°	7260.6	7305.3	7324.5	7314.9	7362.8	7356.4	7423.5	7506.5	7621.5	7733.3	7896.2
5°	6701.6	6749.5	6791.0	6829.3	6922.0	6950.7	7056.1	7215.9	7426.7	7640.7	7909.0
7.5°	6180.9	6222.4	6286.3	6356.6	6513.1	6541.9	6717.5	6966.7	7260.6	7573.6	7944.1
10°	5756.1	5797.6	5864.7	5944.5	6139.4	6174.5	6398.1	6730.3	7113.6	7509.7	7982.5
12.5°	5574.0	5586.8	5625.1	5705.0	5874.3	5896.6	6142.6	6522.7	6969.9	7461.8	8040.0
15°	5564.4	5590.0	5593.2	5634.7	5775.2	5784.8	6011.6	6388.5	6880.5	7452.2	8126.2
17.5°	5660.2	5679.4	5650.7	5676.2	5794.4	5810.4	5989.3	6324.7	6851.7	7493.8	8273.2
20°	5915.8	5931.8	5845.5	5810.4	5896.6	5909.4	6085.1	6366.2	6880.5	7580.0	8474.4
22.5°	6458.8	6468.4	6257.6	6113.8	6120.2	6126.6	6279.9	6535.5	6992.3	7736.5	8729.9
25°	7305.3	7298.9	6963.5	6685.6	6525.9	6490.8	6593.0	6810.2	7180.7	7944.1	9058.9
27.5°	8295.5	8247.6	7912.2	7497.0	7148.8	7097.7	7075.3	7167.9	7449.0	8218.9	9461.4
30°	9413.5	9368.8	9007.8	8464.8	7982.5	7899.4	7688.6	7640.7	7848.3	8592.6	10020.4
32.5°	10640.1	10611.4	10180.1	9522.1	8876.9	8781.0	8426.5	8298.7	8461.6	9158.0	10799.8
35°	11668.7	11643.1	11285.4	10608.2	9819.2	9701.0	9340.0	9196.3	9279.4	9883.1	11818.8
37.5°	12598.2	12585.4	12278.8	11745.3	10930.8	10787.1	10381.4	10333.5	10317.5	10838.2	13055.0
40°	13460.7	13428.7	13109.3	12828.2	12224.5	12093.5	11735.7	11694.2	11572.8	12013.6	14454.1
42.5°	14415.7	14332.7	13869.5	13738.6	13575.6	13467.0	13253.0	13259.4	12991.1	13339.3	15936.2
45°	15195.1	15147.2	14671.3	14594.6	14770.3	14725.6	14910.9	14958.8	14438.1	14728.8	17475.9
47.5°	16032.0	15987.3	15584.8	15530.5	16006.5	16019.3	16674.1	16690.1	15850.0	16172.6	19018.7
50°	17063.8	16999.9	16600.6	16667.7	17201.1	17249.1	18446.9	18338.3	17150.0	17638.8	20548.7
52.5°	17744.2	17782.5	17696.3	17804.9	18533.2	18577.9	20191.0	19913.1	18437.3	19085.8	22050.0
55°	18245.7	18322.3	18590.7	18839.8	19938.6	19983.4	21836.0	21411.2	19504.2	20427.4	23461.9
57.5°	18890.9	18782.3	19283.8	19769.3	21273.8	21392.0	23436.4	22855.0	20449.7	21583.7	24429.8
60°	19817.3	19740.6	20130.3	20849.0	22768.8	22957.2	25129.3	24155.1	21142.9	22500.4	24618.2
62.5°	21695.5	21503.8	21564.5	22200.2	24653.4	24902.5	27039.5	25289.0	21487.9	22858.2	23608.9
65°	24503.2	24174.2	23867.6	24308.4	27307.8	27553.8	29195.6	26180.2	21360.1	22165.0	20928.9
67.5°	28039.3	27713.5	27336.6	27751.8	31217.6	31412.5	31856.5	26681.7	20353.9	19494.6	16191.8
70°	30955.7	30834.3	31284.7	32993.6	37462.4	37468.8	35267.9	26266.5	17597.2	13821.6	9368.8
72.5°	30569.2	30495.7	32869.0	38152.4	45333.1	45163.8	38497.3	23123.3	11853.9	6235.2	3510.5
75°	25078.2	25554.2	29230.8	38059.7	48160.0	48137.6	36520.1	14700.0	4903.2	2584.2	1814.3
77.5°	13447.9	14201.7	18977.2	28100.0	37596.6	38161.9	25675.5	5142.8	2105.0	1654.6	1255.3
80°	4385.7	5043.8	7564.0	14307.1	24429.8	24324.4	11004.3	2018.8	1440.6	1172.3	868.8
82.5°	1862.3	1938.9	3379.5	6755.9	12537.5	12342.7	3504.1	1159.5	1012.6	801.8	536.6
85°	728.3	814.5	1491.7	3124.0	5430.3	5312.1	1264.9	575.0	648.4	523.9	319.4
87.5°	239.6	290.7	533.4	1070.1	1689.8	1629.1	309.8	198.0	281.1	239.6	115.0
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°	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9	7873.9
2.5°	7941.0	7992.1	8052.8	8142.2	8218.9	8282.7	8349.8	8391.3	8407.3	8455.2	8452.0
5°	7998.5	8110.3	8260.4	8407.3	8551.1	8637.3	8714.0	8752.3	8787.4	8813.0	8819.4
7.5°	8094.3	8238.0	8474.4	8666.1	8787.4	8857.7	8908.8	8896.0	8908.8	8915.2	8924.8
10°	8177.3	8378.6	8659.7	8841.7	8934.4	8937.6	8924.8	8880.1	8857.7	8860.9	8867.3
12.5°	8276.4	8500.0	8803.4	8956.7	8982.3	8912.0	8857.7	8781.0	8752.3	8739.5	8733.1
15°	8410.5	8666.1	8959.9	9017.4	8953.5	8864.1	8771.5	8646.9	8583.0	8531.9	8547.9
17.5°	8573.4	8854.5	9081.3	9039.8	8902.4	8755.5	8605.4	8416.9	8285.9	8231.6	8234.8
20°	8800.2	9052.6	9173.9	8991.9	8784.2	8560.6	8305.1	8075.1	7953.7	7899.4	7893.0
22.5°	9074.9	9317.7	9263.4	8908.8	8614.9	8257.2	7937.8	7768.5	7707.8	7669.4	7675.8
25°	9403.9	9611.6	9327.3	8787.4	8337.0	7854.7	7608.8	7554.4	7525.7	7497.0	7497.0
27.5°	9832.0	9943.8	9375.2	8608.6	7902.6	7426.7	7337.2	7346.8	7337.2	7289.3	7298.9
30°	10397.3	10375.0	9419.9	8317.9	7404.3	7040.2	7046.6	7088.1	7094.5	7062.5	7078.5
32.5°	11141.6	10914.8	9442.3	7941.0	6928.4	6701.6	6708.0	6752.7	6784.6	6730.3	6755.9
35°	12042.4	11544.1	9407.1	7468.2	6561.0	6379.0	6331.0	6343.8	6353.4	6302.3	6337.4
37.5°	13093.3	12250.0	9250.6	6944.3	6257.6	6062.7	5960.5	5874.3	5823.2	5775.2	5807.2
40°	14246.4	13019.8	8963.1	6433.3	5919.0	5727.3	5574.0	5411.1	5238.6	5174.7	5203.5
42.5°	15453.9	13812.0	8614.9	5944.5	5529.3	5372.8	5209.9	4973.5	4714.7	4583.8	4599.7
45°	16706.0	14623.4	8273.2	5462.2	5130.0	5062.9	4874.5	4590.2	4309.1	4143.0	4130.2
47.5°	17932.6	15390.0	7771.7	4976.7	4756.3	4829.7	4682.8	4420.9	4107.8	3845.9	3817.2
50°	19104.9	16108.7	6950.7	4484.8	4452.8	4759.5	4618.9	4242.0	3884.2	3548.8	3520.1
52.5°	20267.6	16690.1	5899.8	4037.6	4289.9	4740.3	4535.9	4120.6	3683.0	3331.6	3293.3
55°	21254.7	16990.3	4887.2	3654.2	4053.5	4577.4	4436.8	3976.9	3398.7	3025.0	2993.0
57.5°	21816.9	16747.6	4043.9	3277.3	3727.7	4309.1	4267.5	3670.2	3060.1	2772.6	2734.3
60°	21574.1	15763.7	3354.0	2948.3	3417.9	4018.4	3973.7	3366.8	2801.4	2529.9	2491.5
62.5°	20235.7	13888.7	2807.8	2660.8	3136.8	3721.3	3679.8	3133.6	2603.3	2341.4	2299.9
65°	17539.7	11298.1	2382.9	2421.3	2852.5	3363.6	3424.3	2938.7	2446.8	2191.3	2149.7
67.5°	13377.6	8183.7	2050.7	2213.6	2574.6	3012.2	3187.9	2798.2	2315.8	2073.1	2034.8
70°	7624.7	4647.7	1769.6	2012.4	2328.6	2686.4	3005.8	2686.4	2175.3	1974.1	1948.5
72.5°	2890.8	2133.8	1530.1	1811.2	2092.2	2411.7	2804.6	2510.7	2012.4	1862.3	1836.7
75°	1542.8	1300.1	1287.3	1574.8	1820.7	2143.4	2552.2	2338.2	1891.0	1967.7	2031.6
77.5°	1050.9	919.9	1076.5	1348.0	1523.7	1846.3	2283.9	2076.3	1638.7	1632.3	1504.5
80°	728.3	651.6	875.2	1086.1	1178.7	1552.4	1993.2	1782.4	1335.2	1245.8	1191.5
82.5°	437.6	424.8	654.8	811.3	833.7	1197.9	1651.4	1494.9	1092.4	951.9	958.3
85°	239.6	252.3	418.4	475.9	485.5	836.9	1293.7	1156.3	840.1	705.9	712.3
87.5°	67.1	86.2	153.3	188.5	233.2	434.4	769.8	686.8	421.6	293.9	293.9
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)