

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: P459409

Luminaire Tested: **GALN-SA8C-735-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-735-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52768 lumens
Efficiency: N/A
Efficacy: 123.0 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

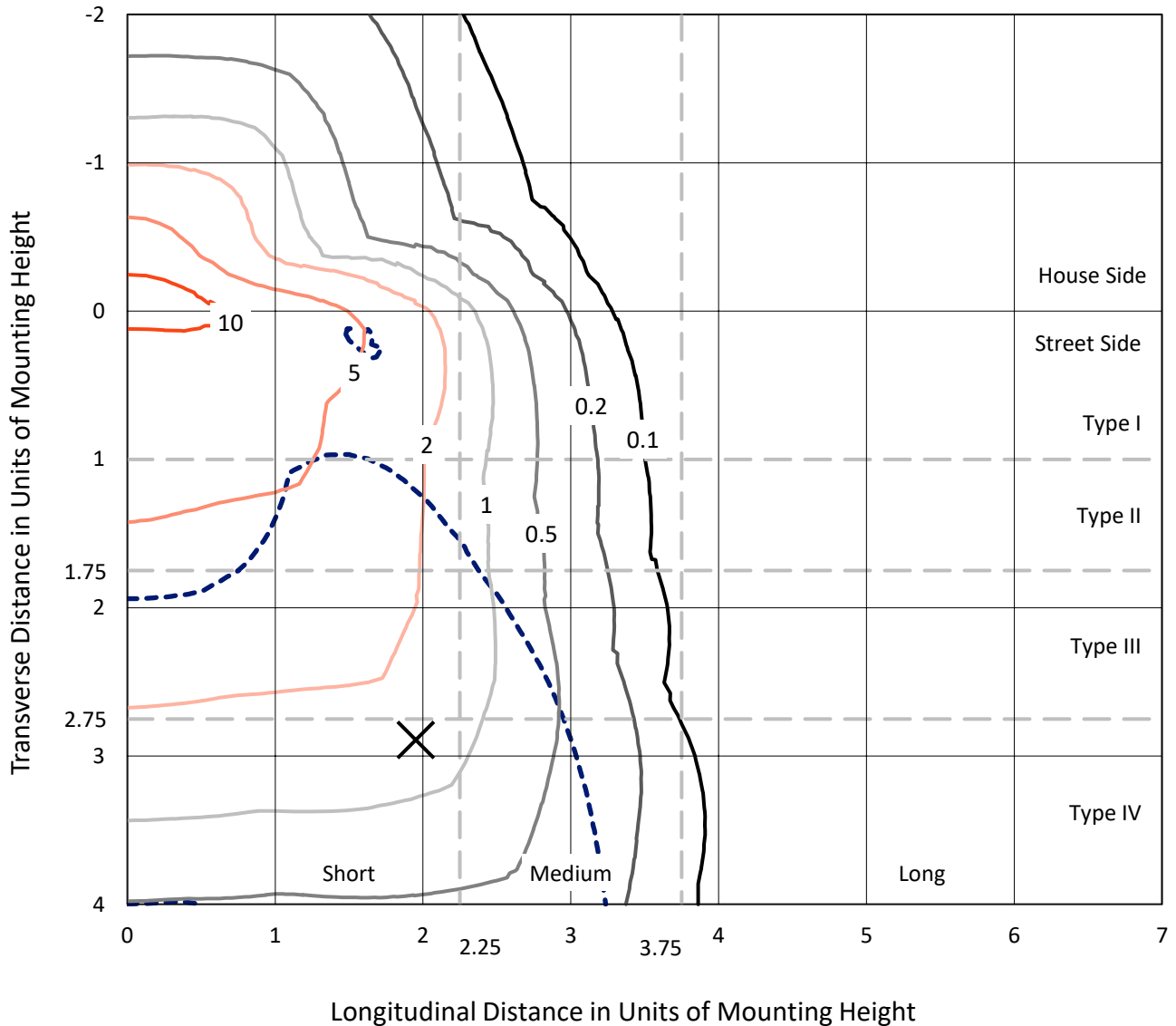
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

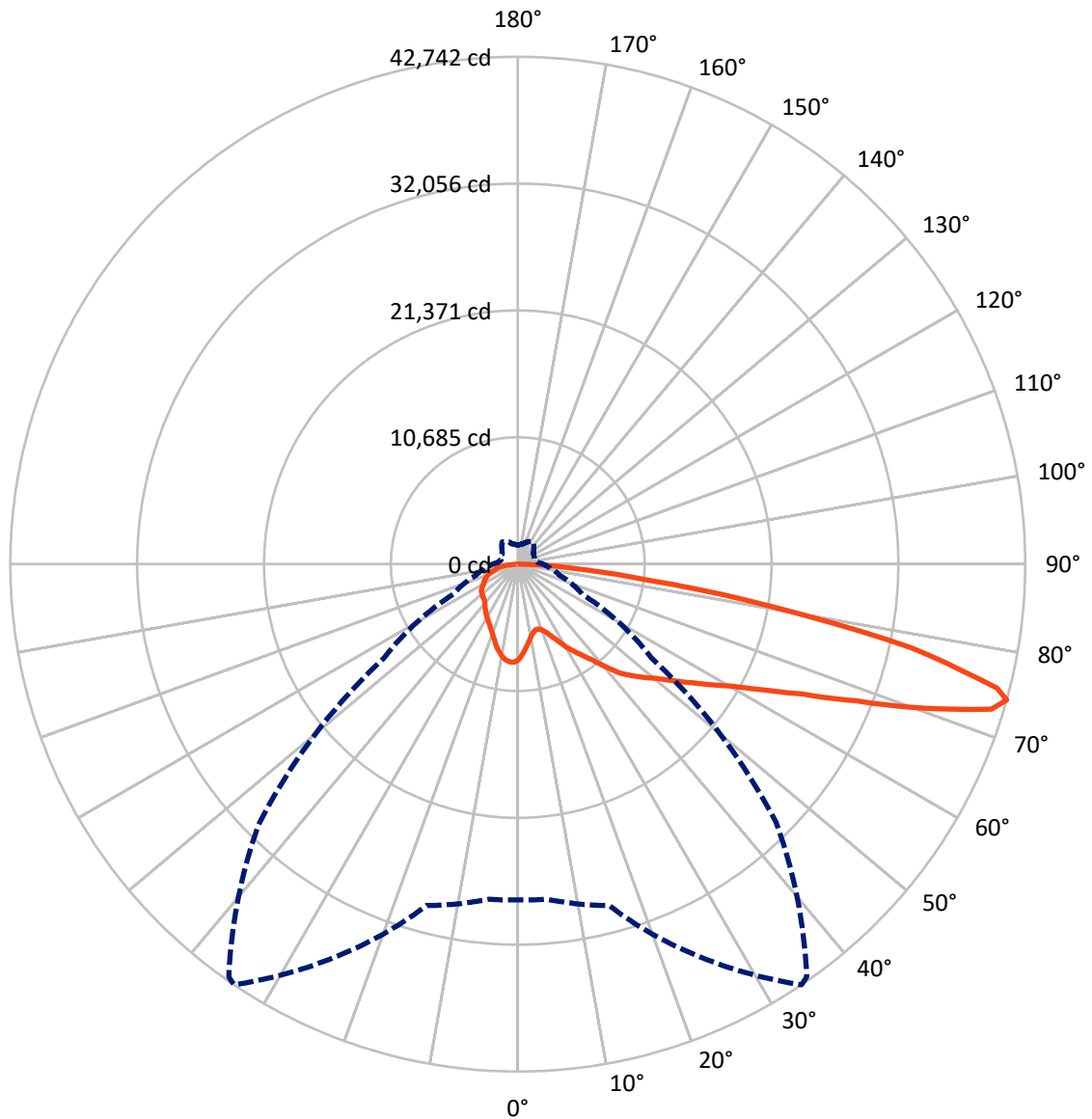
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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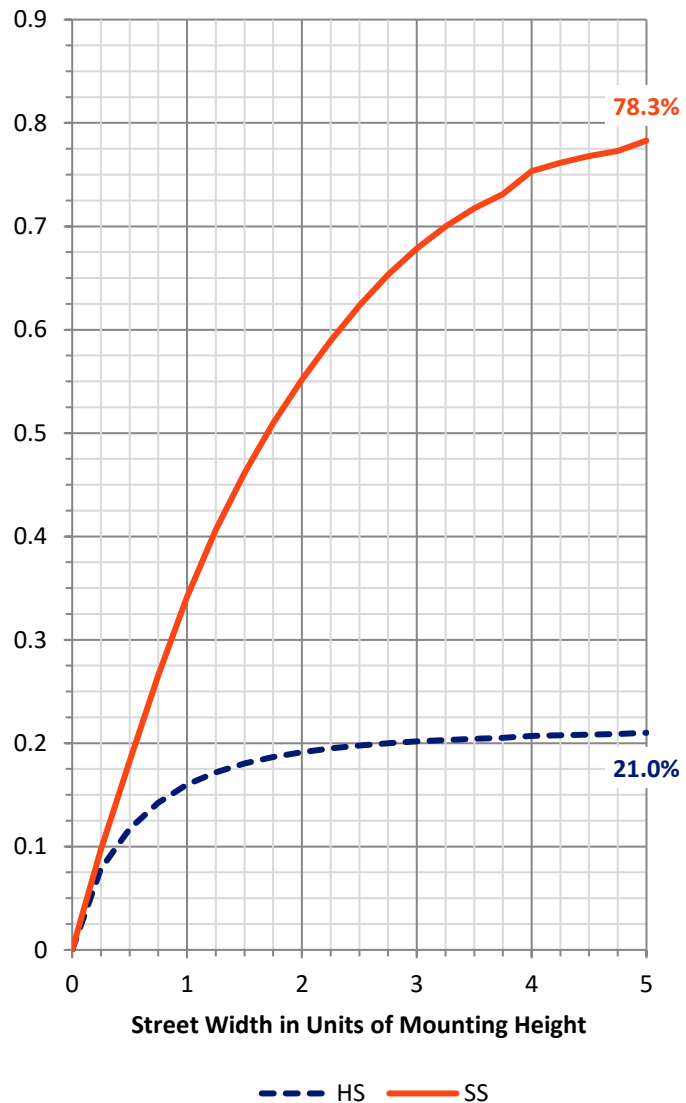
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11229.4	0.0	11229.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	41538.6	0.0	41538.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	52768.0	0.0	52768.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	732.7	1.4
10°-20°	2005.8	3.8
20°-30°	3307.0	6.3
30°-40°	4953.5	9.4
40°-50°	7201.1	13.6
50°-60°	10058.2	19.1
60°-70°	12592.3	23.9
70°-80°	10412.8	19.7
80°-90°	1504.6	2.9
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°	52768.0	100.0
0°-180°	52768.0	100.0

Coefficient of Utilization



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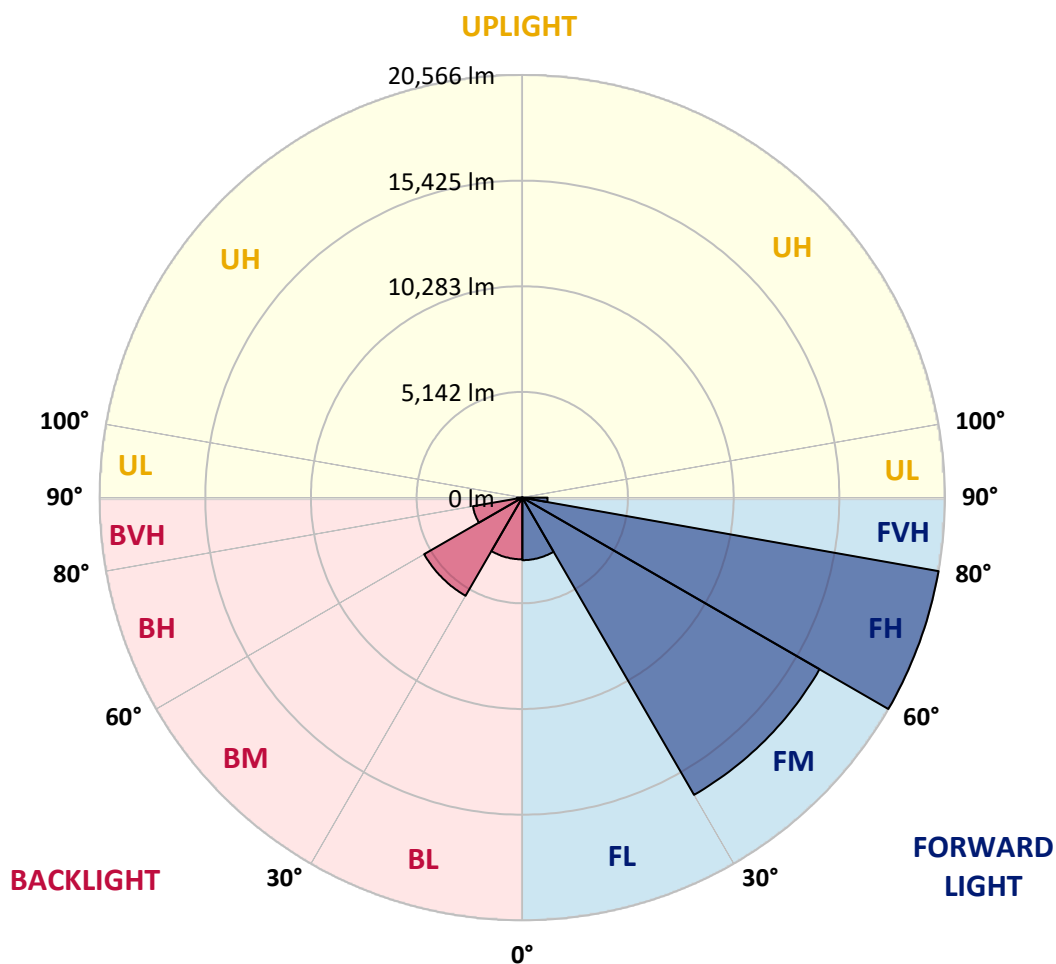
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3041.8	5.8			
FM	(30°-60°)	16698.0	31.6			
FH	(60°-80°)	20566.2	39.0			G5
FVH	(80°-90°)	1232.6	2.3			G5
BL	(0°-30°)	3003.7	5.7	B4/5000		
BM	(30°-60°)	5514.8	10.5	B4/8500		
BH	(60°-80°)	2438.9	4.6	B3/2500		G3/2500
BVH	(80°-90°)	272.0	0.5			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°	34°	35°	45°	55°	65°	75°	85°
0°	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6
2.5°	7445.7	7483.7	7504.1	7577.2	7594.7	7618.1	7679.5	7761.4	7866.6	7960.2	8042.0
5°	6825.9	6884.4	6919.5	6983.8	7109.5	7121.2	7284.9	7472.0	7685.4	7884.2	8047.9
7.5°	6238.3	6302.6	6331.9	6448.8	6615.4	6641.8	6881.5	7176.7	7533.4	7834.5	8085.9
10°	5796.9	5829.1	5893.4	5981.1	6179.9	6197.4	6510.2	6904.8	7366.7	7811.1	8150.2
12.5°	5557.2	5574.7	5589.4	5682.9	5878.8	5905.1	6232.5	6679.8	7235.2	7828.6	8255.4
15°	5592.3	5598.1	5533.8	5551.4	5709.2	5747.2	6071.7	6530.7	7153.3	7872.5	8413.3
17.5°	5887.5	5867.1	5709.2	5627.4	5738.4	5756.0	6039.5	6472.2	7115.3	7954.3	8577.0
20°	6352.3	6323.1	6051.2	5870.0	5934.3	5948.9	6144.8	6516.0	7153.3	8088.8	8831.3
22.5°	6931.2	6919.5	6507.3	6288.0	6285.1	6285.1	6387.4	6673.9	7267.3	8273.0	9097.3
25°	7740.9	7679.5	7141.6	6858.1	6779.1	6773.3	6761.6	6934.1	7413.5	8468.8	9413.0
27.5°	8571.1	8465.9	7986.5	7550.9	7381.3	7360.9	7284.9	7302.4	7600.6	8691.0	9772.6
30°	9316.6	9249.3	8799.1	8316.8	8115.1	8068.3	7857.8	7761.4	7913.4	9091.5	10345.6
32.5°	9886.6	9845.7	9494.9	9056.4	8758.2	8749.5	8442.5	8363.6	8401.6	9576.7	11000.4
35°	10348.5	10363.1	10184.8	9804.8	9462.7	9413.0	9208.4	9109.0	8997.9	10278.3	11824.8
37.5°	10979.9	11012.1	11000.4	10673.0	10255.0	10266.6	10219.9	10056.2	9760.9	11061.8	12739.8
40°	11675.7	11699.1	11696.1	11570.4	11351.2	11362.9	11345.3	11158.3	10716.8	12058.6	13757.1
42.5°	12637.4	12526.4	12237.0	12362.7	12491.3	12546.8	12666.7	12488.4	11883.2	13122.7	14713.0
45°	13713.2	13502.7	12847.9	12906.4	13382.9	13488.1	14148.8	13903.2	13149.0	14344.7	15838.5
47.5°	14391.4	14183.9	13631.4	13619.7	14251.1	14353.4	15522.8	15432.1	14300.8	15663.1	17212.4
50°	14996.6	14967.3	14344.7	14493.7	15110.6	15262.6	17019.5	16934.7	15449.7	17218.3	18709.2
52.5°	15894.0	15657.2	15160.3	15467.2	16282.8	16481.6	18504.5	18256.0	16505.0	18592.2	20162.0
55°	16297.4	16241.9	16212.7	16478.7	17598.3	17741.5	19948.6	19378.6	17405.4	19755.7	21267.0
57.5°	17376.1	17273.8	17563.2	17744.5	19147.7	19366.9	21457.1	20550.8	18194.7	20679.5	21804.9
60°	18773.5	18717.9	18983.9	19311.4	20878.2	21211.5	23176.0	21550.6	18829.0	21144.3	21509.7
62.5°	20860.7	20854.9	20805.2	21506.8	23330.9	23637.8	25149.2	22524.1	18928.4	20796.4	19983.7
65°	23854.2	23748.9	23316.3	24082.2	26382.8	26742.4	27204.3	23067.8	18329.1	19010.3	16826.5
67.5°	26985.0	26979.2	26628.4	27622.3	30764.9	31136.1	29773.9	22947.9	16665.8	15400.0	11950.5
70°	29580.9	29455.2	29902.5	32551.0	36363.0	36792.7	32021.9	21536.0	13274.7	10170.2	7100.7
72.5°	30203.6	30209.4	31139.1	36351.3	41739.0	41806.2	32831.6	17455.1	8883.9	5609.8	3551.8
74°	28285.9	28335.6	29776.8	36541.3	42741.6	42437.6	30761.9	13719.1	6007.4	3662.9	2560.8
75°	25818.6	25505.8	27590.2	35275.5	41701.0	41373.5	28338.5	11009.2	4583.7	2926.2	2242.2
77.5°	13803.8	14122.5	17338.1	26324.4	33878.2	33501.1	19214.9	5279.5	2476.0	2037.5	1613.7
80°	4914.1	5419.8	7618.1	13774.6	21720.2	21837.1	9170.4	2420.5	1742.3	1502.6	1140.1
82.5°	2005.4	2060.9	3271.2	6112.6	11029.6	11134.9	3744.8	1438.3	1245.3	1034.9	681.1
85°	783.4	806.8	1447.0	2747.9	4706.5	5013.5	1295.0	760.1	765.9	593.4	347.9
87.5°	263.1	298.2	593.4	915.0	1599.0	1566.9	377.1	225.1	274.8	257.3	108.2
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°	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6	8056.6
2.5°	8082.9	8138.5	8176.5	8217.4	8255.4	8267.1	8258.3	8284.6	8287.6	8290.5	8293.4
5°	8129.7	8205.7	8278.8	8319.7	8337.3	8322.7	8273.0	8246.6	8223.3	8205.7	8211.6
7.5°	8194.0	8302.2	8369.4	8387.0	8340.2	8273.0	8150.2	8053.7	7992.3	7951.4	7948.5
10°	8293.4	8398.7	8454.2	8404.5	8275.9	8112.2	7919.2	7738.0	7600.6	7559.7	7556.7
12.5°	8419.1	8539.0	8536.1	8389.9	8164.8	7872.5	7559.7	7349.2	7162.1	7068.6	7106.6
15°	8582.8	8673.4	8588.7	8325.6	7968.9	7568.4	7182.6	6896.1	6685.6	6586.2	6592.1
17.5°	8772.8	8851.8	8626.7	8211.6	7694.1	7179.6	6732.4	6460.5	6293.9	6220.8	6214.9
20°	9009.6	9033.0	8626.7	8012.8	7340.4	6726.5	6299.7	6109.7	6016.2	5978.2	5989.9
22.5°	9264.0	9217.2	8579.9	7732.1	6875.6	6253.0	5966.5	5881.7	5834.9	5829.1	5834.9
25°	9550.4	9418.9	8483.4	7352.1	6390.3	5843.7	5677.1	5691.7	5700.4	5700.4	5720.9
27.5°	9901.2	9638.1	8322.7	6872.7	5823.2	5463.7	5416.9	5519.2	5566.0	5574.7	5589.4
30°	10363.1	9877.8	8056.6	6273.4	5340.9	5121.6	5203.5	5340.9	5393.5	5425.7	5419.8
32.5°	10912.7	10140.9	7697.1	5674.1	4952.1	4881.9	4981.3	5121.6	5180.1	5197.6	5174.3
35°	11558.7	10439.1	7223.5	5112.9	4613.0	4653.9	4770.8	4814.7	4867.3	4867.3	4879.0
37.5°	12254.5	10678.8	6644.7	4598.4	4349.9	4499.0	4583.7	4542.8	4519.4	4490.2	4504.8
40°	12961.9	10857.2	5893.4	4089.7	4086.8	4338.2	4361.6	4244.6	4151.1	4121.9	4107.2
42.5°	13578.8	10968.2	5215.2	3695.1	3838.3	4180.3	4197.9	4010.8	3861.7	3774.0	3744.8
45°	14306.7	11096.9	4551.6	3367.6	3607.4	4054.6	4098.5	3847.1	3627.8	3443.7	3396.9
47.5°	15303.5	11389.2	4028.3	3113.3	3440.7	3975.7	4037.1	3712.6	3423.2	3183.5	3145.5
50°	16429.0	11789.7	3622.0	2940.8	3312.1	3905.5	3981.5	3575.2	3233.2	2967.2	2937.9
52.5°	17460.9	12006.0	3271.2	2785.9	3186.4	3776.9	3908.5	3475.8	3046.1	2750.8	2724.5
55°	18025.1	11655.2	2926.2	2633.9	3013.9	3610.3	3806.1	3338.4	2864.8	2636.8	2598.8
57.5°	18101.1	10930.2	2613.4	2470.2	2832.7	3405.7	3616.1	3171.8	2747.9	2557.9	2525.7
60°	17513.5	9848.6	2370.8	2335.7	2648.5	3174.7	3402.7	3025.6	2628.1	2470.2	2438.0
62.5°	16051.9	8673.4	2201.2	2212.9	2461.4	2932.1	3244.9	2885.3	2514.0	2373.7	2344.5
65°	13537.8	7159.2	2037.5	2087.2	2294.8	2742.1	3101.6	2768.4	2400.0	2300.6	2274.3
67.5°	9404.3	5168.4	1903.1	1955.7	2136.9	2549.1	2935.0	2642.7	2271.4	2218.8	2177.9
70°	5206.4	3180.6	1745.2	1806.6	1973.2	2332.8	2747.9	2452.7	2084.3	2060.9	2002.5
72.5°	2736.2	2025.9	1566.9	1634.1	1751.1	2055.1	2461.4	2245.1	1900.1	1800.8	1724.8
74°	2136.9	1660.4	1447.0	1517.2	1596.1	1891.4	2291.9	2096.0	1768.6	1651.7	1593.2
75°	1862.1	1479.2	1344.7	1435.3	1505.5	1780.3	2160.3	1990.8	1695.5	1584.4	1531.8
77.5°	1315.5	1107.9	1099.2	1207.3	1245.3	1561.0	1946.9	1812.4	1511.3	1394.4	1344.7
80°	923.8	830.2	871.1	938.4	991.0	1379.8	1806.6	1566.9	1239.5	1102.1	1084.5
82.5°	602.2	543.7	622.7	684.1	701.6	1017.3	1458.7	1189.8	903.3	733.7	681.1
85°	277.7	271.9	356.6	347.9	345.0	497.0	865.3	695.7	520.3	388.8	365.4
87.5°	70.2	67.2	87.7	73.1	87.7	76.0	78.9	20.5	2.9	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)