

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: P943312

Luminaire Tested: **GALN-SB7D-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943312
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7D-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 66538 lumens
Efficiency: N/A
Efficacy: 129.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - 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



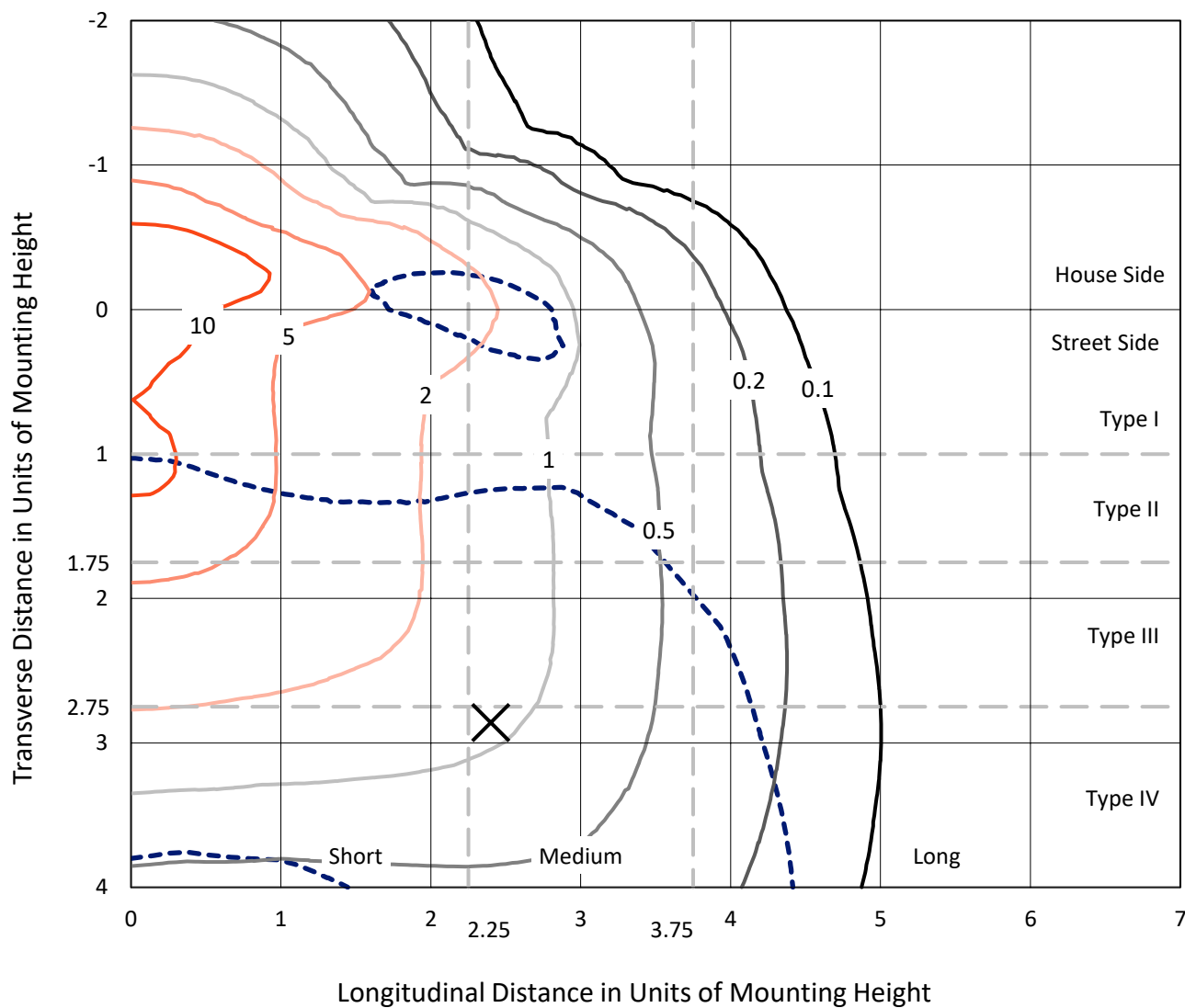
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Iso-Footcandle Lines of Horizontal Illumination

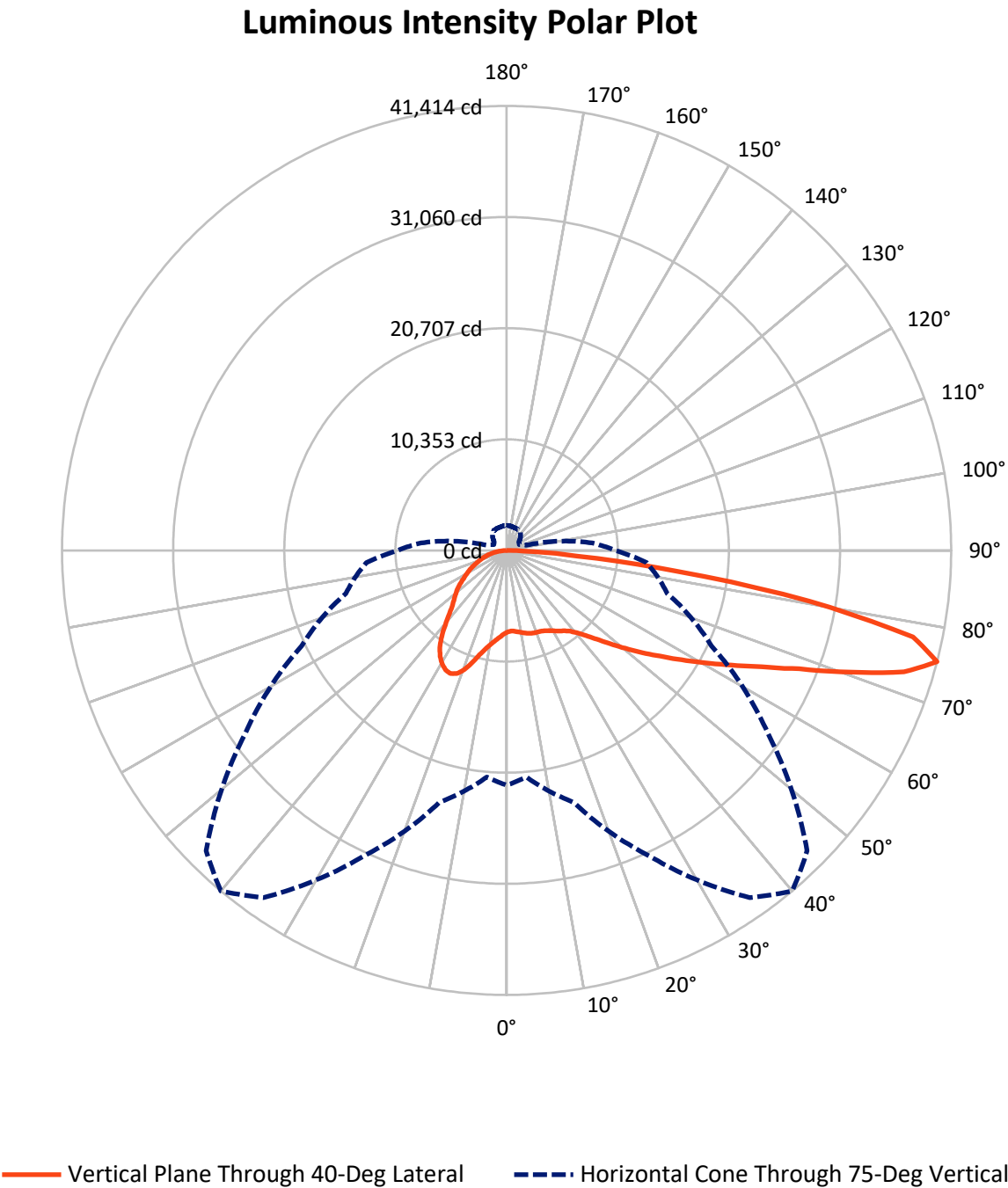
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc
 Type IV - Medium - N/A

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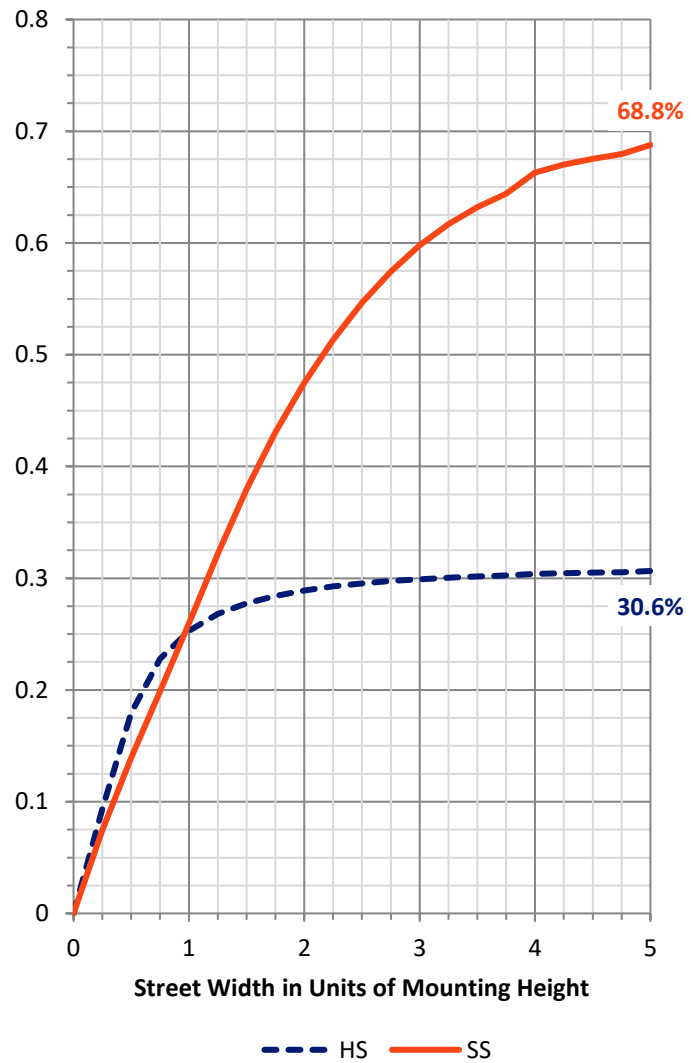
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20615.7	0.0	20615.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	45922.3	0.0	45922.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	66538.0	0.0	66538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	759.5	1.1
10°-20°	2550.0	3.8
20°-30°	4656.0	7.0
30°-40°	6603.5	9.9
40°-50°	8916.8	13.4
50°-60°	11995.4	18.0
60°-70°	15225.0	22.9
70°-80°	13817.6	20.8
80°-90°	2014.2	3.0
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°	66538.0	100.0
0°-180°	66538.0	100.0

Coefficient of Utilization



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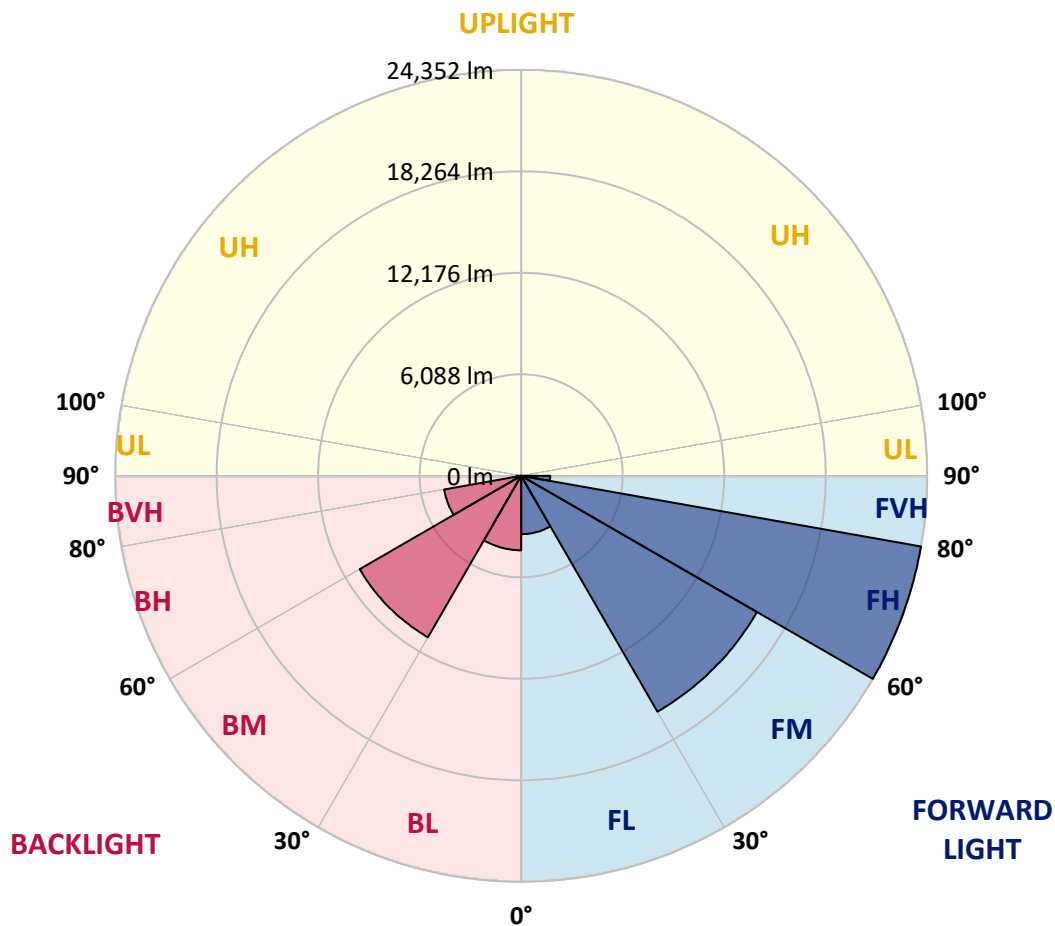
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3500.0	5.3			
FM	(30°-60°)	16333.6	24.5			
FH	(60°-80°)	24351.9	36.6			G5
FVH	(80°-90°)	1736.9	2.6			G5
BL	(0°-30°)	4465.6	6.7	B4/5000		
BM	(30°-60°)	11182.2	16.8	B5		
BH	(60°-80°)	4690.7	7.0	B4/5000		G4/5000
BVH	(80°-90°)	277.3	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7
2.5°	7492.2	7534.6	7524.0	7509.9	7509.9	7513.4	7509.9	7534.6	7559.3	7584.0	7622.8
5°	7569.9	7612.2	7591.1	7573.4	7559.3	7555.8	7545.2	7541.7	7555.8	7587.5	7640.5
7.5°	7721.6	7764.0	7732.2	7700.5	7672.2	7658.1	7644.0	7622.8	7612.2	7629.9	7704.0
10°	7891.0	7933.4	7894.6	7838.1	7792.2	7774.6	7760.5	7739.3	7725.2	7735.8	7816.9
12.5°	8060.4	8102.8	8049.8	7972.2	7912.2	7901.6	7884.0	7876.9	7873.4	7869.9	7951.0
15°	8219.2	8254.5	8187.5	8095.7	8032.2	8014.6	7996.9	8007.5	8025.1	8046.3	8138.1
17.5°	8342.8	8378.0	8279.2	8159.2	8099.3	8092.2	8081.6	8116.9	8166.3	8219.2	8332.2
20°	8455.7	8491.0	8363.9	8201.6	8131.0	8131.0	8134.5	8208.7	8279.2	8356.9	8512.2
22.5°	8614.5	8642.7	8487.5	8265.1	8162.8	8169.8	8198.1	8272.2	8360.4	8466.3	8681.6
25°	8850.9	8872.1	8681.6	8385.1	8268.6	8289.8	8314.5	8349.8	8434.5	8558.0	8847.4
27.5°	9232.1	9249.7	8999.2	8596.9	8420.4	8455.7	8491.0	8466.3	8505.1	8611.0	8981.5
30°	9768.5	9779.1	9461.5	8928.6	8678.0	8695.7	8702.7	8600.4	8526.3	8611.0	9076.8
32.5°	10403.7	10400.2	10022.6	9330.9	8970.9	8953.3	8893.3	8692.1	8519.2	8593.3	9161.5
35°	11388.4	11349.5	10862.5	9895.6	9302.7	9193.3	9052.1	8794.5	8554.5	8575.7	9235.6
37.5°	13018.8	12898.8	12224.8	10820.2	9796.7	9517.9	9309.7	8960.3	8632.1	8568.6	9323.8
40°	14857.5	14705.7	13964.6	12087.1	10537.9	10089.7	9754.4	9196.8	8759.2	8600.4	9454.4
42.5°	17038.4	16823.2	16025.6	13579.9	11476.6	10827.2	10322.6	9496.8	8946.2	8702.7	9630.9
45°	19717.0	19431.1	18301.8	15263.3	12658.8	11794.2	11120.1	9952.0	9232.1	8900.4	9895.6
47.5°	22423.8	22494.4	20888.7	17190.2	14077.5	12987.0	12118.9	10636.7	9648.5	9218.0	10322.6
50°	25300.0	25349.4	23461.4	19325.3	15686.8	14335.1	13241.1	11402.5	10227.3	9669.7	10961.3
52.5°	27544.5	27551.6	25797.6	21559.2	17363.1	15817.4	14451.6	12277.7	10897.8	10269.6	11811.9
55°	28949.1	28931.4	27435.1	23673.1	19290.0	17373.7	15792.7	13272.9	11716.6	10975.5	12881.2
57.5°	29969.0	29916.1	28564.4	25490.6	21343.9	19212.3	17310.2	14402.2	12683.5	11815.4	14289.3
60°	30357.2	30325.4	29330.2	27061.0	23503.7	21245.1	19060.6	15665.6	13781.1	12807.1	16099.7
62.5°	30505.4	30565.4	30081.9	28582.1	25815.3	23496.7	20983.9	17176.1	15016.3	13929.3	18008.9
65°	31027.7	31137.1	31038.3	30572.5	28426.8	26132.9	23535.5	18972.4	16364.4	15132.7	20002.9
67.5°	32061.7	32171.1	32213.5	32954.6	31617.1	29418.5	26718.7	21209.8	17941.9	16382.0	21502.7
70°	32037.0	32005.3	32753.4	34849.7	35612.0	33967.5	31010.1	23962.5	19822.9	17419.6	21693.3
72.5°	29160.8	28906.7	30674.8	34828.5	38936.4	38717.6	36250.8	27512.8	21446.3	17546.6	18824.1
75°	21876.8	21199.2	24322.5	31387.7	39490.5	41413.8	39582.2	29714.9	21061.6	15503.3	13100.0
77.5°	9355.6	8674.5	12355.3	23235.5	35343.8	38714.1	36526.0	25924.7	16812.6	10252.0	6433.5
80°	2449.2	2445.7	3733.8	10534.3	24036.6	28589.1	25081.2	16742.0	9606.2	3663.2	1775.1
82.5°	1012.8	988.1	1372.8	4097.3	11744.8	16043.2	13092.9	7467.5	3469.1	991.7	589.4
85°	377.6	374.1	667.0	1415.2	4143.1	6617.0	4789.0	1909.2	864.6	483.5	264.7
87.5°	105.9	102.3	144.7	490.5	1009.3	1531.6	818.7	314.1	243.5	190.6	77.6
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°	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7	7608.7
2.5°	7633.4	7651.1	7682.8	7707.5	7739.3	7774.6	7824.0	7855.7	7887.5	7908.7	7894.6
5°	7665.2	7704.0	7785.2	7866.3	7961.6	8049.8	8152.2	8226.3	8286.3	8303.9	8311.0
7.5°	7735.8	7799.3	7936.9	8074.5	8226.3	8371.0	8519.2	8646.3	8748.6	8787.4	8791.0
10°	7859.3	7944.0	8138.1	8332.2	8533.3	8755.7	8946.2	9129.7	9274.4	9334.4	9338.0
12.5°	8014.6	8120.4	8374.5	8642.7	8921.5	9228.6	9475.6	9701.5	9881.4	9962.6	9962.6
15°	8215.7	8353.3	8678.0	9038.0	9447.4	9874.4	10188.5	10439.0	10640.2	10739.0	10731.9
17.5°	8434.5	8618.0	9027.4	9570.9	10156.7	10717.8	11084.9	11268.4	11476.6	11571.9	11568.3
20°	8646.3	8872.1	9457.9	10248.5	11028.4	11624.8	11921.3	11970.7	11984.8	11995.4	12023.6
22.5°	8865.1	9168.6	9997.9	11102.5	11938.9	12351.8	12394.1	12182.4	11886.0	11748.3	11787.1
25°	9105.0	9507.4	10703.7	12044.8	12722.4	12771.8	12447.1	11931.8	11370.7	11113.1	11151.9
27.5°	9338.0	9899.1	11550.7	12944.7	13287.0	12852.9	12154.2	11423.7	10746.1	10474.3	10506.1
30°	9570.9	10347.3	12485.9	13731.7	13544.6	12651.8	11691.9	10876.6	10195.5	9909.7	9941.4
32.5°	9807.3	10869.6	13562.3	14299.9	13498.8	12224.8	11116.6	10262.6	9662.6	9362.7	9401.5
35°	10075.5	11511.9	14582.2	14610.4	13191.7	11596.6	10357.9	9528.5	9006.2	8766.2	8819.2
37.5°	10424.9	12327.1	15482.1	14688.1	12655.3	10675.5	9415.6	8660.4	8229.8	8120.4	8198.1
40°	10859.0	13308.2	16170.3	14564.5	11861.3	9556.8	8385.1	7781.6	7538.1	7562.8	7647.5
42.5°	11423.7	14405.7	16653.8	14246.9	10756.7	8402.8	7481.7	7213.5	7329.9	7428.7	7520.5
45°	12157.7	15545.6	16953.7	13707.0	9507.4	7425.2	6948.8	7012.3	7100.5	7111.1	7181.7
47.5°	13096.4	16699.6	17151.4	12891.8	8233.4	6737.0	6610.0	6624.1	6606.4	6532.3	6588.8
50°	14268.1	17821.9	17327.8	11811.9	7149.9	6306.5	6137.1	6087.7	5844.2	5604.2	5636.0
52.5°	15602.1	18852.4	17401.9	10470.8	6306.5	5946.5	5671.2	5360.7	4905.4	4831.3	4856.0
55°	17084.3	19805.2	17211.4	8822.7	5597.1	5484.2	5067.8	4693.7	4644.3	4580.8	4591.3
57.5°	18855.9	20832.2	16823.2	6984.1	4870.1	4944.2	4538.4	4580.8	4492.5	4393.7	4376.1
60°	20793.4	21894.4	16142.0	5307.7	4118.4	4270.2	4400.8	4397.2	4372.5	4291.4	4263.1
62.5°	22536.7	22593.2	14801.0	4065.5	3458.5	3747.9	4104.3	4100.8	4079.6	4033.7	4016.1
65°	23574.3	22487.3	12563.5	3200.9	2915.0	3317.3	3702.0	3730.2	3733.8	3730.2	3730.2
67.5°	23390.8	21248.6	9493.2	2548.0	2466.8	2879.7	3303.2	3342.0	3370.3	3377.3	3384.4
70°	21315.7	18527.7	6190.0	2032.8	2068.0	2495.1	2925.6	2964.4	2989.1	3017.4	3031.5
72.5°	16614.9	13622.3	3543.2	1644.6	1718.7	2163.3	2551.5	2597.4	2611.5	2664.5	2685.6
75°	10124.9	8011.0	1912.8	1295.2	1411.6	1849.2	2181.0	2233.9	2258.6	2322.1	2329.2
77.5°	4813.7	3469.1	1090.5	1009.3	1136.4	1510.4	1842.2	1902.2	1835.1	1870.4	1842.2
80°	1626.9	1288.1	688.2	769.3	868.2	1178.7	1475.2	1535.2	1394.0	1386.9	1372.8
82.5°	568.2	522.3	437.6	511.7	561.1	843.5	1115.2	1192.8	1037.6	1034.0	984.6
85°	222.3	211.7	243.5	278.8	335.3	518.8	734.0	772.9	638.8	515.2	508.2
87.5°	45.9	49.4	60.0	63.5	102.3	180.0	264.7	324.7	257.6	218.8	201.2
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)