

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: P944337

Luminaire Tested: **GALN-SB9B-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47605 lumens
Efficiency: N/A
Efficacy: 144.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 329.5
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

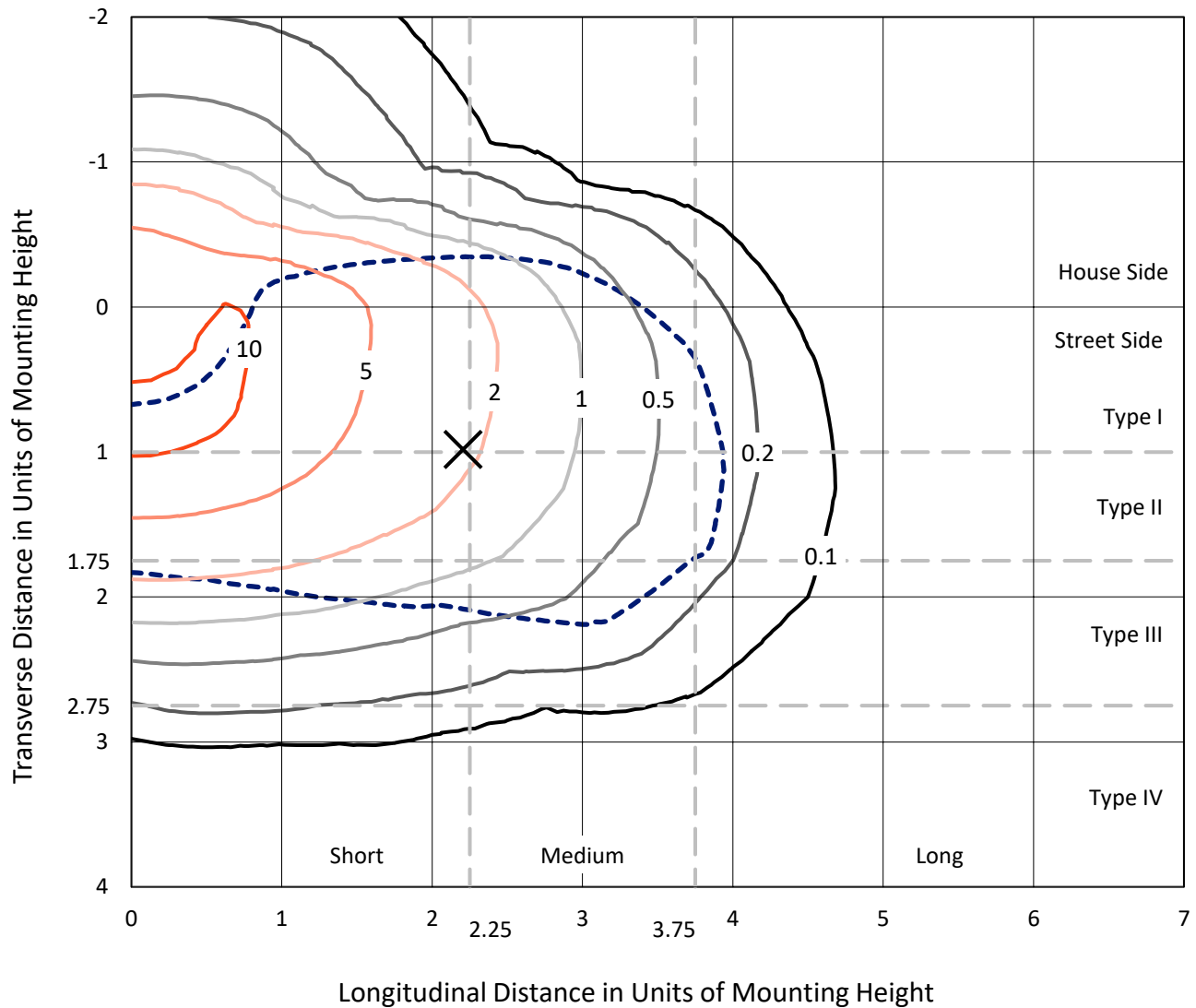


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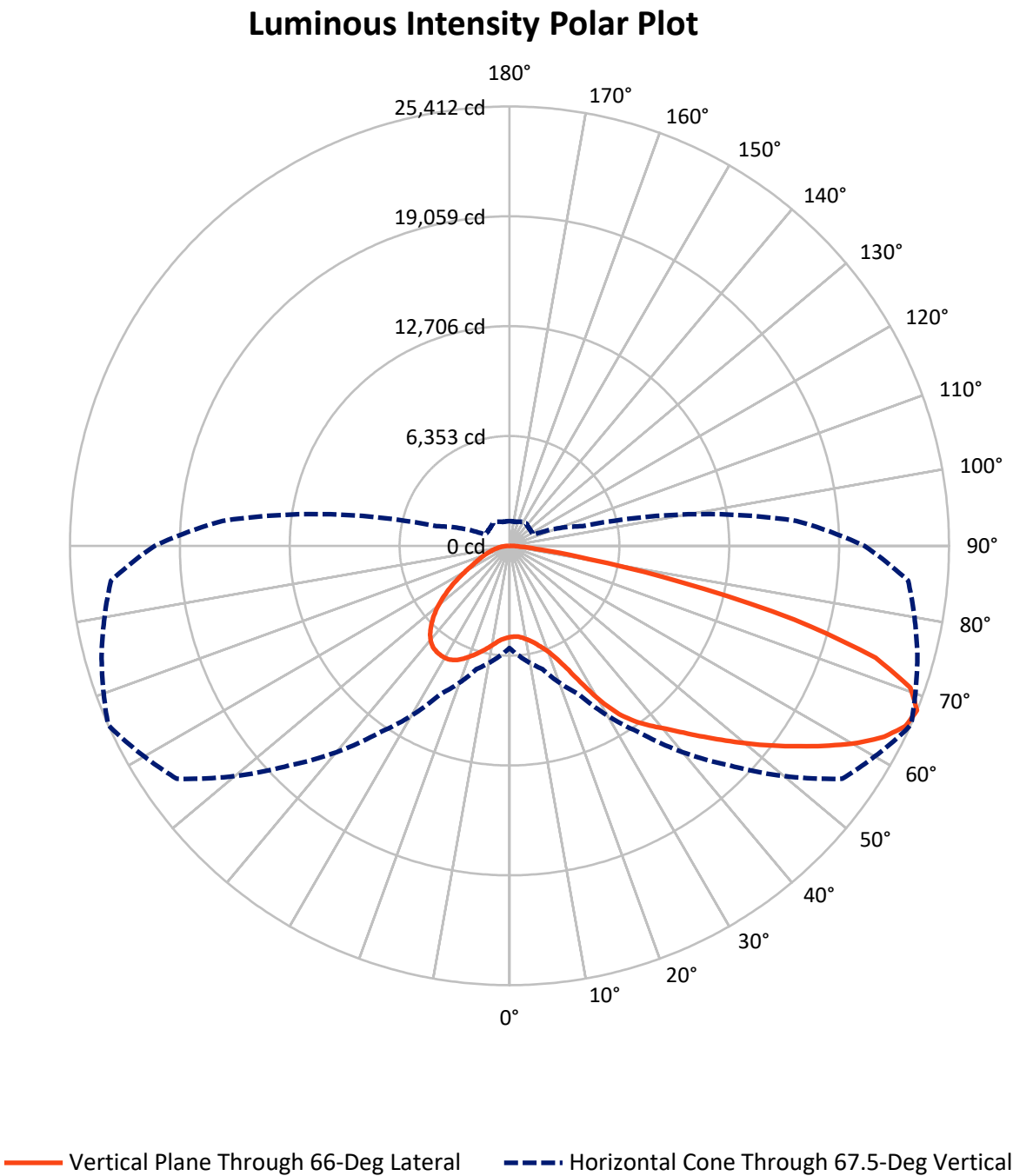
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
Type III - Short - N/A

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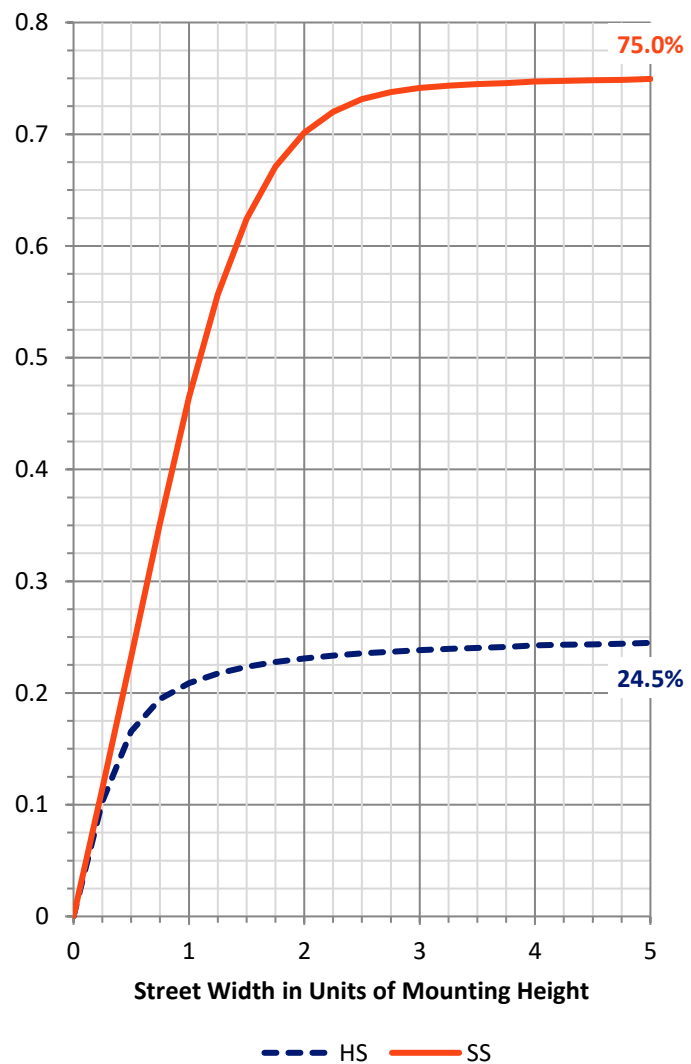
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11836.9	0.0	11836.9
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	35768.2	0.0	35768.2
	% Fixture	75.1	0.0	75.1
Total	Lumens	47605.0	0.0	47605.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.5	1.1
10°-20°	1729.6	3.6
20°-30°	3333.6	7.0
30°-40°	5845.1	12.3
40°-50°	8689.7	18.3
50°-60°	11015.0	23.1
60°-70°	10777.9	22.6
70°-80°	5141.2	10.8
80°-90°	549.5	1.2
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°	47605.0	100.0
0°-180°	47605.0	100.0

Coefficient of Utilization



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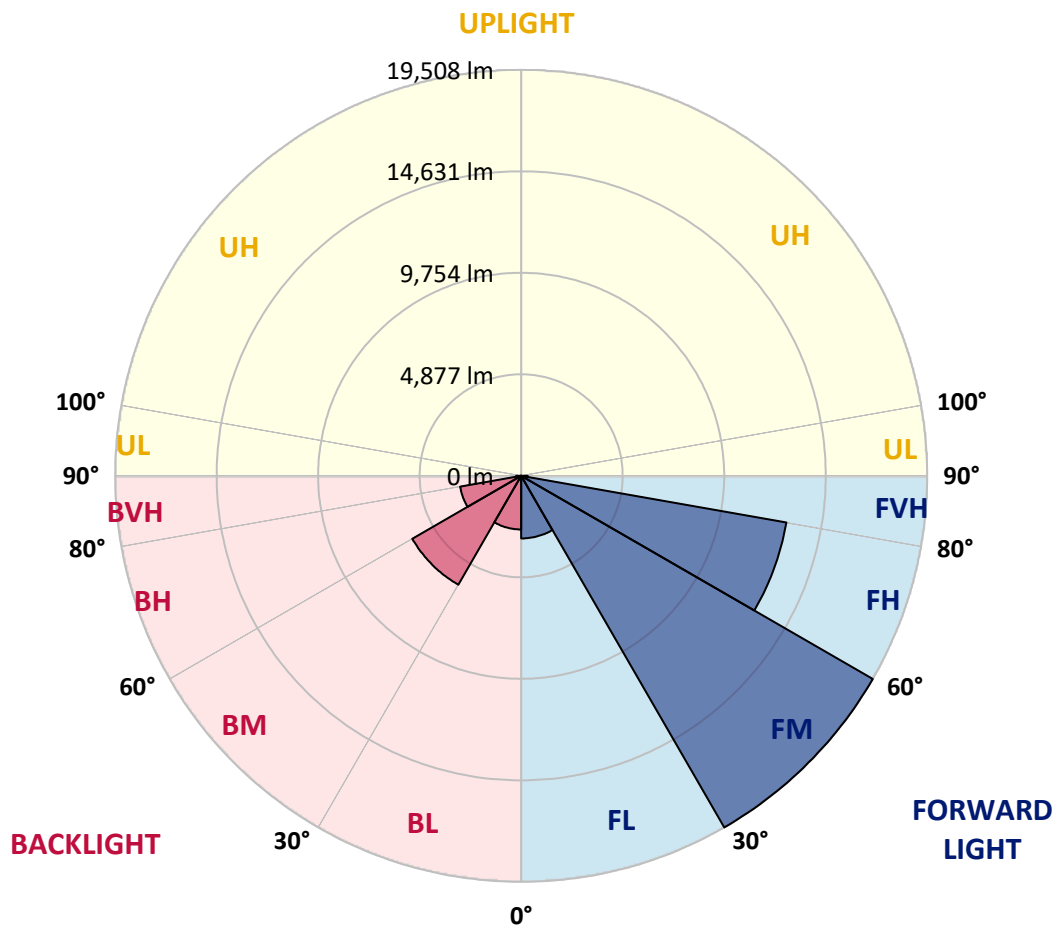
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3008.2	6.3			
FM	(30°-60°)	19508.1	41.0			
FH	(60°-80°)	12940.3	27.2			G5
FVH	(80°-90°)	311.5	0.7			G3/500
BL	(0°-30°)	2578.5	5.4	B4/5000		
BM	(30°-60°)	6041.7	12.7	B4/8500		
BH	(60°-80°)	2978.8	6.3	B4/5000		G4/5000
BVH	(80°-90°)	237.9	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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0
2.5°	5225.0	5255.0	5247.5	5235.0	5232.5	5237.5	5245.0	5252.5	5250.0	5262.5	5282.5
5°	5210.0	5240.0	5237.5	5237.5	5247.5	5267.5	5280.0	5292.5	5280.0	5295.0	5322.5
7.5°	5220.0	5242.5	5252.5	5262.5	5287.5	5325.0	5355.1	5382.6	5367.6	5385.1	5420.1
10°	5347.6	5365.1	5375.1	5375.1	5392.6	5435.1	5465.1	5515.1	5502.6	5530.1	5575.2
12.5°	5580.2	5597.7	5597.7	5587.7	5600.2	5627.7	5637.7	5692.7	5670.2	5715.2	5760.3
15°	5865.3	5900.3	5872.8	5855.3	5860.3	5887.8	5885.3	5927.8	5905.3	5942.8	5982.9
17.5°	6180.5	6225.5	6180.5	6178.0	6167.9	6198.0	6200.5	6238.0	6198.0	6225.5	6253.0
20°	6553.1	6615.7	6578.1	6590.7	6568.1	6580.6	6593.2	6648.2	6585.6	6605.7	6598.2
22.5°	7078.4	7153.4	7113.4	7160.9	7145.9	7135.9	7133.4	7231.0	7133.4	7140.9	7068.4
25°	7843.7	7933.8	7863.8	7928.8	7928.8	7961.3	7998.8	8123.9	7961.3	7913.8	7726.2
27.5°	8974.3	9064.3	8926.8	8966.8	8954.3	9034.3	8994.3	9304.4	9129.4	9051.8	8674.1
30°	10334.9	10495.0	10234.9	10224.9	10212.4	10339.9	10397.5	10602.6	10425.0	10347.4	9892.2
32.5°	11805.6	11973.2	11663.1	11573.0	11525.5	11603.0	11555.5	11720.6	11598.0	11478.0	10915.2
35°	13361.4	13526.5	13231.3	13056.2	12866.1	12703.6	12533.5	12576.0	12461.0	12278.4	11695.6
37.5°	14832.1	15134.7	14822.1	14634.5	14284.3	13966.7	13491.4	13293.9	13186.3	13018.7	12430.9
40°	16330.3	16502.9	16265.3	16105.2	15725.0	15227.3	14466.9	14049.2	13904.1	13741.6	13243.8
42.5°	17433.3	17598.4	17470.9	17360.8	17063.2	16485.4	15502.4	14979.7	14769.6	14587.0	14164.3
45°	18308.8	18431.3	18351.3	18391.3	18263.7	17703.5	16575.4	15977.6	15760.0	15537.4	15204.8
47.5°	18661.4	18791.5	18919.0	19156.7	19374.3	18961.6	17728.5	17058.2	16828.0	16600.4	16272.8
50°	18621.4	18754.0	19124.1	19629.4	20304.7	20167.1	18944.1	18208.7	17996.1	17736.0	17433.3
52.5°	18301.2	18451.3	18926.5	19766.9	20842.5	21070.1	20182.1	19396.8	19196.7	18886.5	18583.9
55°	17460.8	17550.9	18263.7	19454.3	20970.0	21700.4	21395.2	20662.4	20462.3	20029.6	19699.4
57.5°	15902.6	16032.7	17070.7	18611.4	20649.9	22128.1	22460.7	21993.0	21800.4	21177.6	20832.5
60°	13869.1	14076.7	15264.8	17195.7	19834.5	22125.6	23428.7	23301.1	23141.1	22308.2	21948.0
62.5°	11568.0	11808.1	12951.2	15194.8	18408.8	21497.8	24034.0	24396.7	24314.1	23351.2	22890.9
65°	8884.2	9049.3	10187.4	12606.0	16190.2	20149.6	24104.0	25144.5	25159.5	24144.0	23383.7
67.5°	5915.3	6390.6	7378.5	9459.5	13218.8	17946.1	23488.7	25267.1	25412.1	24416.7	23136.1
70°	2886.4	3511.7	4479.6	6147.9	9459.5	14567.0	21880.5	24261.6	24584.3	23621.3	21660.4
72.5°	1198.1	1400.7	1928.4	3034.0	5430.1	9829.7	18648.9	21535.3	22133.1	20930.0	18211.2
75°	807.9	875.4	1103.0	1555.7	2473.7	4847.3	13448.9	16057.7	17020.6	15807.6	12921.2
77.5°	622.8	665.3	802.9	1088.0	1470.7	1833.4	7198.4	9677.1	10174.9	9419.5	6723.2
80°	490.2	522.7	600.3	792.9	1043.0	980.5	2453.7	4384.6	4672.2	3919.4	2161.0
82.5°	425.2	437.7	430.2	537.8	692.8	572.8	805.4	1618.3	1785.9	1295.6	705.3
85°	307.6	342.7	357.7	332.7	367.7	290.1	330.2	572.8	630.3	562.8	397.7
87.5°	125.1	185.1	227.6	215.1	135.1	82.5	102.5	167.6	192.6	210.1	130.1
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°	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0	5280.0
2.5°	5285.0	5302.5	5315.0	5330.0	5340.1	5355.1	5385.1	5402.6	5405.1	5417.6	5415.1
5°	5332.5	5357.6	5385.1	5425.1	5470.1	5507.6	5565.2	5605.2	5620.2	5632.7	5630.2
7.5°	5435.1	5470.1	5520.1	5590.2	5655.2	5705.2	5775.3	5822.8	5870.3	5887.8	5890.3
10°	5587.7	5637.7	5710.2	5805.3	5875.3	5940.3	6012.9	6052.9	6100.4	6120.4	6130.4
12.5°	5777.8	5830.3	5925.3	6057.9	6122.9	6167.9	6193.0	6183.0	6193.0	6210.5	6215.5
15°	5995.4	6052.9	6160.4	6303.0	6348.0	6308.0	6253.0	6203.0	6195.5	6200.5	6218.0
17.5°	6253.0	6295.5	6420.6	6540.6	6508.1	6343.0	6223.0	6142.9	6102.9	6090.4	6107.9
20°	6613.2	6613.2	6715.7	6790.7	6573.1	6293.0	6105.4	5975.4	5892.8	5857.8	5850.3
22.5°	7050.9	7010.9	7075.9	7023.4	6560.6	6152.9	5892.8	5667.7	5542.6	5492.6	5485.1
25°	7606.1	7558.6	7541.1	7215.9	6470.6	5930.3	5507.6	5235.0	5124.9	5097.4	5102.4
27.5°	8444.0	8324.0	8096.4	7321.0	6305.5	5580.2	5057.4	4804.8	4742.3	4744.8	4752.3
30°	9559.6	9319.5	8761.7	7338.5	6035.4	5084.9	4597.2	4417.1	4387.1	4399.6	4442.1
32.5°	10592.6	10365.0	9442.0	7258.5	5620.2	4599.7	4184.5	4064.4	4019.4	4034.4	4054.4
35°	11403.0	11340.4	10072.3	7145.9	5109.9	4144.5	3814.3	3711.8	3624.2	3604.2	3619.2
37.5°	12168.3	12143.3	10545.0	6988.3	4604.7	3821.8	3516.7	3381.6	3254.1	3184.0	3186.5
40°	13008.7	12983.7	10855.2	6745.7	4157.0	3541.7	3249.1	3071.5	2913.9	2786.3	2798.8
42.5°	13954.2	13806.6	11002.8	6398.1	3776.8	3304.1	3031.4	2791.3	2583.7	2466.2	2473.7
45°	14987.2	14654.5	11000.3	5955.3	3456.7	3086.5	2798.8	2458.7	2266.1	2156.0	2151.0
47.5°	16082.7	15464.9	10865.2	5465.1	3146.5	2846.4	2438.7	2178.5	2051.0	1983.4	1968.4
50°	17213.2	16222.8	10635.1	4902.3	2828.9	2573.7	2213.6	2036.0	1938.4	1875.9	1853.4
52.5°	18276.2	16910.6	10357.5	4264.5	2506.2	2308.6	2113.5	1975.9	1873.4	1803.4	1773.3
55°	19264.2	17503.4	9964.8	3611.7	2243.6	2131.0	2066.0	1950.9	1833.4	1750.8	1718.3
57.5°	20142.1	17888.5	9286.9	2998.9	2056.0	2008.5	2016.0	1908.4	1773.3	1703.3	1658.3
60°	20872.5	18171.2	8284.0	2431.2	1903.4	1888.4	1938.4	1828.4	1670.8	1590.8	1555.7
62.5°	21310.2	18166.2	7053.4	1991.0	1773.3	1778.3	1835.9	1728.3	1568.2	1493.2	1470.7
65°	21272.7	17721.0	5702.7	1703.3	1648.3	1653.3	1728.3	1618.3	1483.2	1438.2	1435.7
67.5°	20519.8	16635.5	4374.6	1515.7	1510.7	1533.2	1620.8	1543.2	1430.7	1425.7	1433.2
70°	18481.3	14381.9	3151.5	1365.7	1368.2	1400.7	1515.7	1495.7	1403.2	1413.2	1410.7
72.5°	14819.6	10965.2	2116.0	1208.1	1210.6	1263.1	1415.7	1458.2	1375.7	1508.2	1528.2
75°	9869.7	6838.3	1360.7	1040.5	1043.0	1110.5	1328.1	1385.7	1300.6	1503.2	1515.7
77.5°	4742.3	3074.0	985.5	875.4	875.4	937.9	1148.0	1240.6	1108.0	1168.1	1070.5
80°	1638.3	1155.6	775.4	705.3	690.3	732.9	968.0	1075.5	955.5	880.4	825.4
82.5°	645.3	600.3	622.8	547.8	497.7	525.3	752.9	887.9	702.8	635.3	632.8
85°	370.2	390.2	440.2	362.7	287.6	322.7	552.8	637.8	530.3	467.7	477.7
87.5°	100.0	137.6	202.6	187.6	130.1	137.6	262.6	352.7	305.1	235.1	242.6
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)