

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: P957013

Luminaire Tested: **GALN-SB9C-730-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-730-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69375 lumens
Efficiency: N/A
Efficacy: 154.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

Input Watts (W): 449.8
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

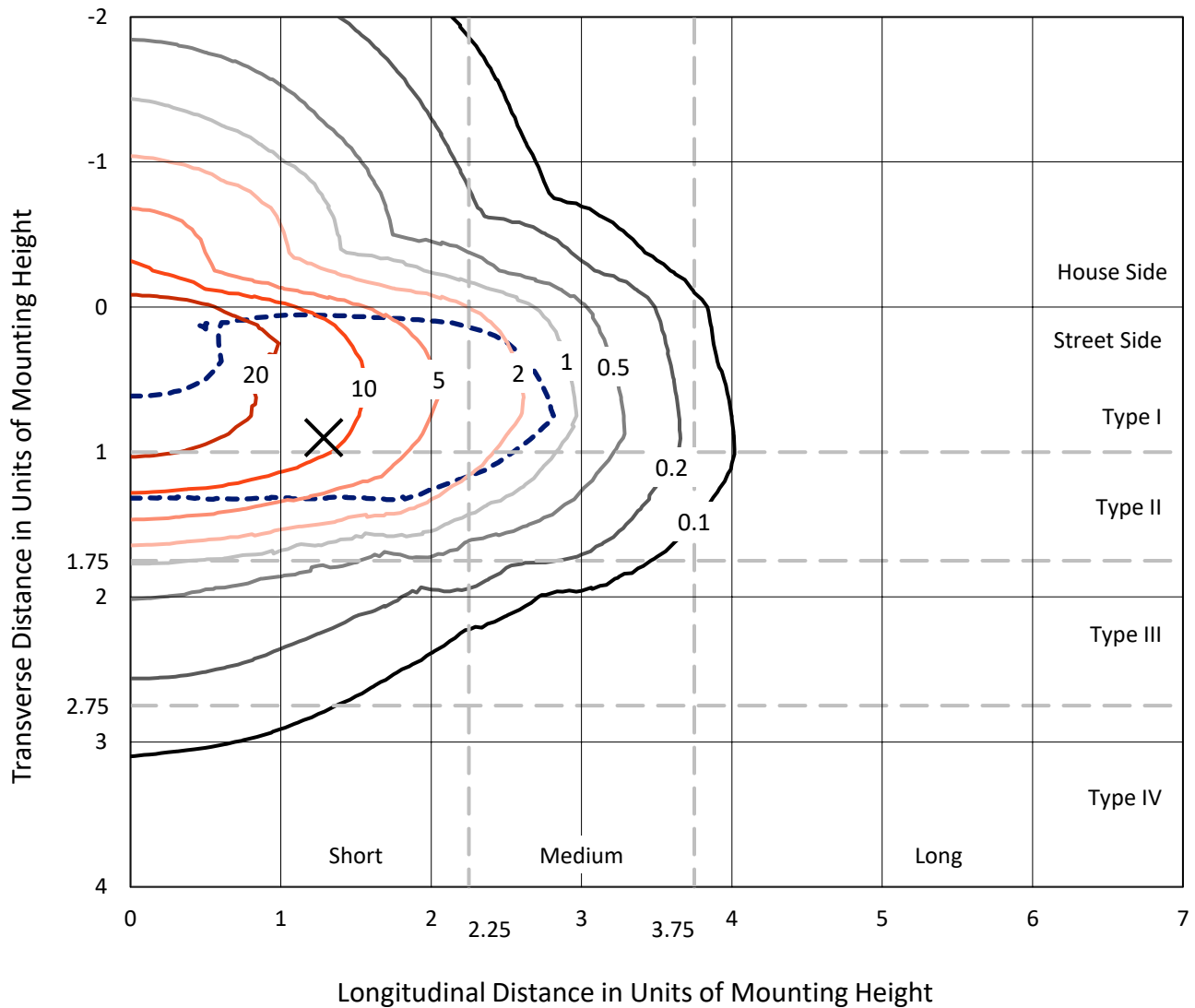


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

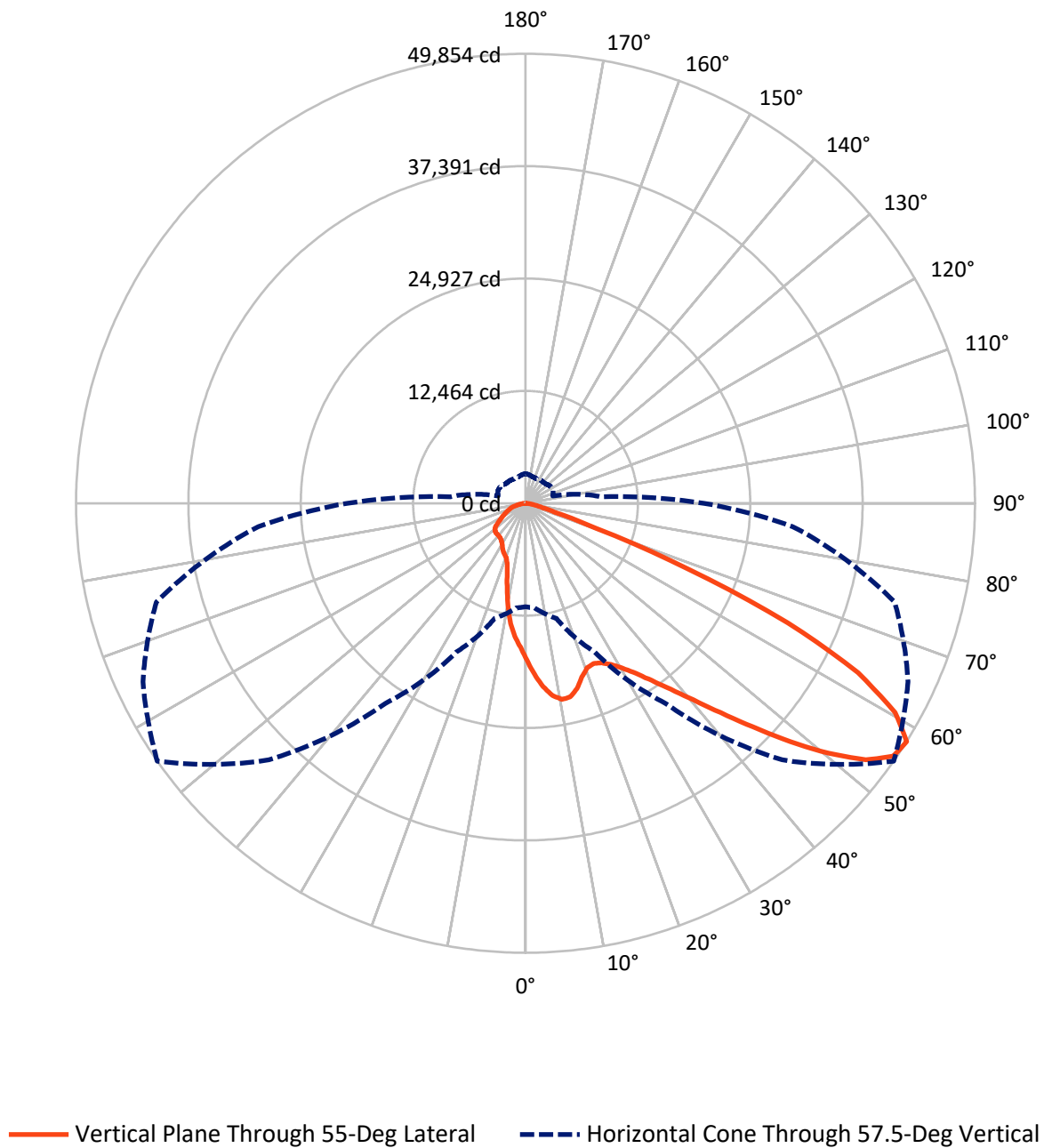


Based on 25 foot mounting height. Maximum calculated value = 33.6 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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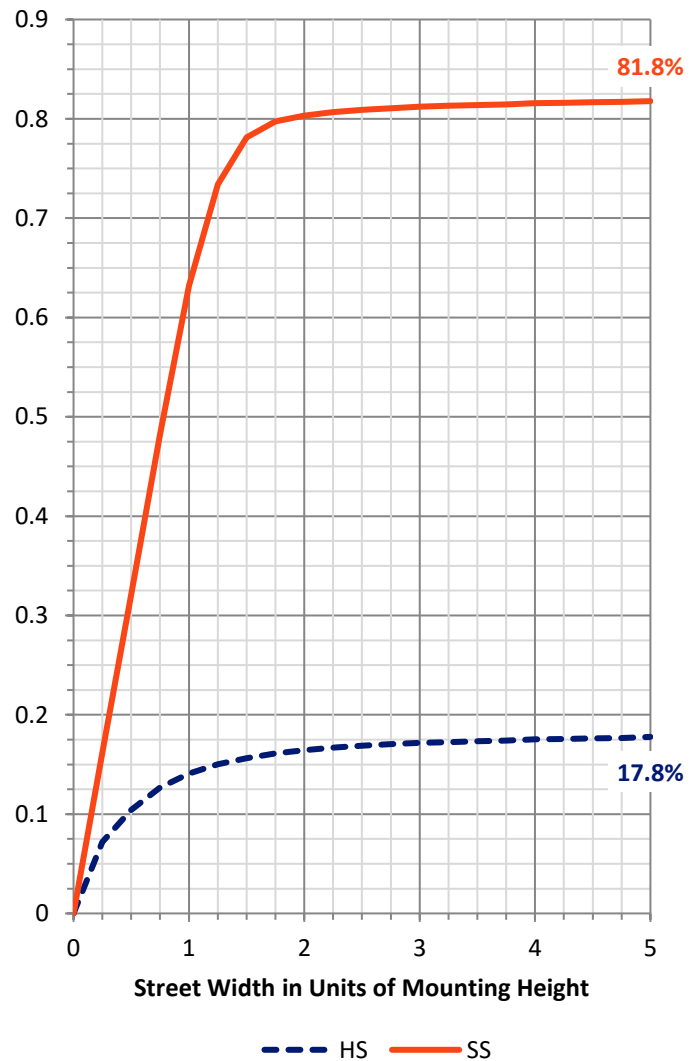
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12553.1	0.0	12553.1
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	56821.9	0.0	56821.9
	% Fixture	81.9	0.0	81.9
Total	Lumens	69375.0	0.0	69375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1613.0	2.3
10°-20°	4071.4	5.9
20°-30°	6496.8	9.4
30°-40°	10286.1	14.8
40°-50°	15743.9	22.7
50°-60°	16863.2	24.3
60°-70°	10608.7	15.3
70°-80°	3137.2	4.5
80°-90°	554.7	0.8
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°	69375.0	100.0
0°-180°	69375.0	100.0

Coefficient of Utilization



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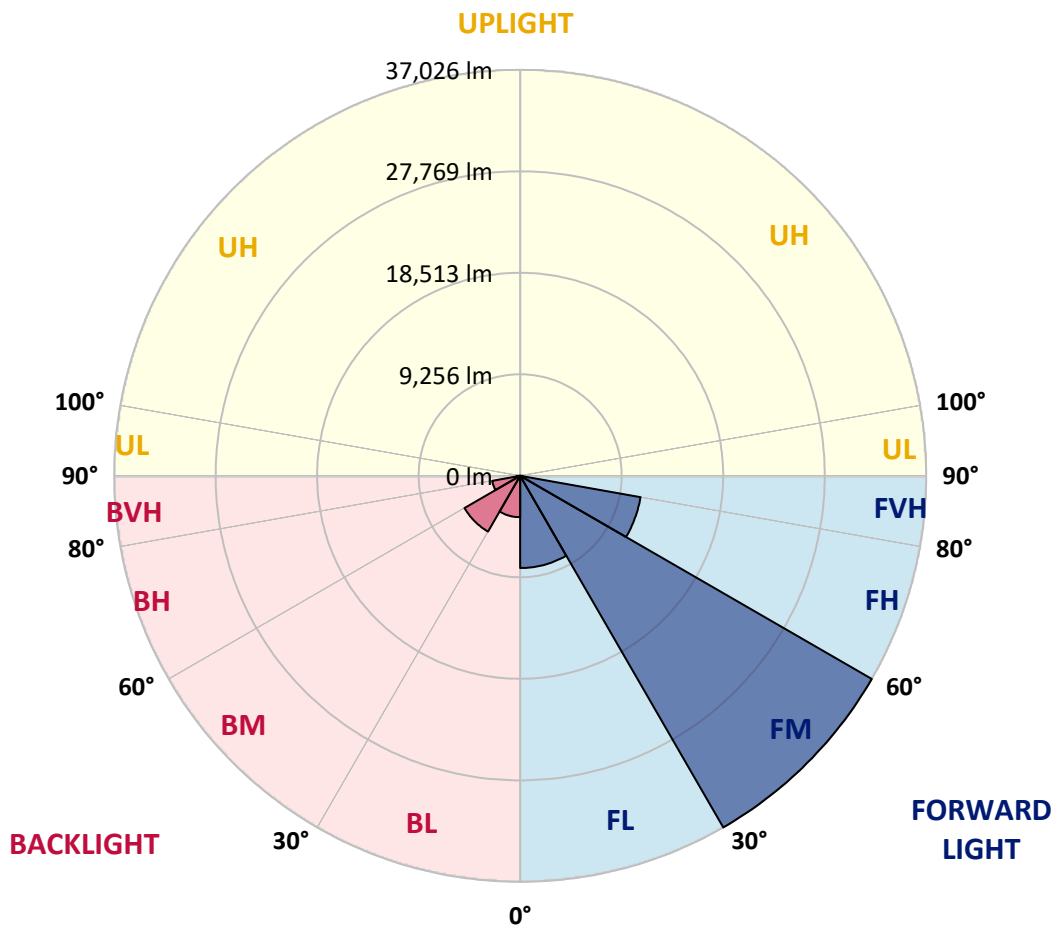
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8408.2	12.1			
FM	(30°-60°)	37025.9	53.4			
FH	(60°-80°)	11153.4	16.1			G4/12000
FVH	(80°-90°)	234.4	0.3			G3/500
BL	(0°-30°)	3773.0	5.4	B4/5000		
BM	(30°-60°)	5867.2	8.5	B4/8500		
BH	(60°-80°)	2592.5	3.7	B4/5000		G4/5000
BVH	(80°-90°)	320.3	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-G4

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1
2.5°	19943.8	19929.4	20008.3	19739.4	19556.5	19309.0	18982.6	18566.6	18118.3	17644.9	17440.5
5°	21740.6	21615.0	21697.5	21496.7	21295.9	20922.9	20438.7	19760.9	18932.4	17989.2	17487.1
7.5°	21457.2	21371.2	21582.8	21762.1	21912.7	21866.1	21511.0	20800.9	19732.2	18362.2	17634.2
10°	19172.7	19075.9	19373.6	19994.0	20904.9	21697.5	22127.9	21686.8	20549.9	18771.0	17777.6
12.5°	17157.2	17110.6	17307.8	17809.9	18821.3	20341.9	22049.0	22461.4	21399.9	19255.2	17971.3
15°	16296.5	16239.1	16364.6	16619.2	17264.8	18681.4	21331.7	22992.2	22235.5	19814.7	18279.7
17.5°	16106.4	16041.8	16095.6	16228.3	16644.3	17723.8	20248.6	23254.0	23107.0	20438.7	18537.9
20°	16457.8	16404.0	16411.2	16404.0	16694.5	17551.7	19495.5	23153.6	23867.3	21012.5	18789.0
22.5°	17307.8	17218.2	17221.7	17031.7	17189.5	17852.9	19298.2	22884.6	24545.1	21514.6	18979.1
25°	18692.1	18530.8	18563.0	18078.9	18035.8	18527.2	19606.7	22676.6	25219.3	21916.3	19014.9
27.5°	20585.7	20402.8	20306.0	19585.2	19240.9	19484.7	20234.3	22748.3	25857.7	22264.2	18925.3
30°	22952.8	22730.4	22533.1	21511.0	20887.0	20797.3	21209.8	23221.7	26610.8	22630.0	18771.0
32.5°	25854.1	25595.9	25237.3	23881.6	23003.0	22533.1	22472.2	24064.5	27493.1	23096.2	18692.1
35°	29307.8	28970.7	28461.4	26707.7	25595.9	24634.8	24136.3	25280.3	28701.7	23799.1	18781.8
37.5°	32865.5	32485.3	32019.1	29931.8	28565.4	27148.8	26166.1	26930.0	30312.0	24753.1	19018.5
40°	36147.0	35720.2	35286.3	33428.5	31961.7	30254.6	28651.5	29017.3	32280.9	25893.6	19420.2
42.5°	38083.6	37768.0	37603.1	36598.9	35465.6	33733.4	31742.9	31491.9	34493.7	27206.2	19879.2
45°	37997.6	37868.5	38377.7	38793.7	38524.8	37563.6	35365.2	34228.3	36713.6	28343.1	20302.4
47.5°	35967.7	36053.8	37190.6	39528.9	40558.2	41060.3	39489.5	36914.5	38643.1	29193.0	20492.5
50°	30444.7	30516.4	33148.8	38191.2	41081.8	43911.5	43581.5	39536.1	40138.6	29713.1	20449.5
52.5°	26072.9	26119.5	27249.2	34224.7	39353.2	45346.0	47268.3	42007.1	41232.5	29856.5	20209.2
55°	19638.9	19800.3	21066.3	26851.1	34855.9	44209.2	49513.4	44553.4	41924.6	29870.9	19958.1
57.5°	11472.8	11648.5	13212.2	18225.9	27091.4	40246.2	49854.1	46812.9	42394.4	29756.1	19807.5
60°	5619.8	5695.2	6376.6	9579.2	16705.3	32610.8	47114.1	47906.7	42656.3	29695.1	19800.3
62.5°	3787.2	3776.4	3805.1	4726.8	8230.7	20951.6	41404.6	45991.6	42516.4	29462.0	19728.6
65°	3256.4	3217.0	3109.4	3317.4	4264.2	9582.8	31990.4	40274.9	41451.2	28877.4	19237.3
67.5°	2815.3	2818.9	2822.5	2757.9	3044.8	4422.0	19549.3	31725.0	37628.2	26108.8	17343.7
70°	2331.1	2363.4	2377.8	2377.8	2481.8	2901.4	8345.5	21744.1	29680.8	20471.0	13968.9
72.5°	2123.1	2055.0	2062.2	2026.3	2026.3	2209.2	3360.4	12326.3	18699.3	11515.8	8524.8
75°	1732.2	1775.3	1782.4	1757.3	1674.8	1685.6	1994.0	5171.5	8001.2	4777.0	4214.0
77.5°	1495.5	1495.5	1509.9	1491.9	1427.4	1262.4	1330.5	2004.8	2722.1	1958.2	2105.2
80°	1201.4	1197.8	1258.8	1294.7	1194.3	932.5	850.0	1108.2	1208.6	860.7	1093.8
82.5°	584.6	620.4	864.3	986.3	907.4	674.2	520.0	688.6	645.5	380.2	491.3
85°	340.7	322.8	387.3	548.7	520.0	373.0	251.0	358.6	337.1	193.7	197.3
87.5°	107.6	100.4	78.9	186.5	150.6	104.0	68.1	104.0	93.2	43.0	43.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1	17383.1
2.5°	17185.9	16762.7	16343.1	15959.3	15726.2	15575.6	15425.0	15256.4	15191.9	15095.0
5°	17013.7	16196.0	15468.0	14840.4	14270.2	13821.9	13370.0	13004.2	12839.2	12950.4
7.5°	16913.3	15729.8	14607.3	13456.1	12347.9	11462.0	10691.0	10149.4	9905.5	9966.5
10°	16823.6	15202.6	13491.9	11673.6	10081.3	8983.9	8194.8	7782.4	7628.2	7660.5
12.5°	16741.2	14610.9	12147.0	9754.9	8062.2	7337.7	7111.8	7115.4	7144.0	7165.6
15°	16726.8	13897.2	10644.3	8076.5	6971.9	6925.3	7169.1	7323.4	7405.8	7431.0
17.5°	16705.3	13043.6	9113.0	6932.4	6706.5	7022.1	7248.0	7348.5	7413.0	7416.6
20°	16619.2	11960.5	7699.9	6387.3	6649.1	6921.7	7061.6	7140.5	7194.3	7212.2
22.5°	16353.8	10755.5	6598.9	6143.4	6419.6	6638.4	6803.3	6893.0	6925.3	6946.8
25°	15876.8	9407.0	5838.6	5910.3	6100.4	6376.6	6509.3	6527.2	6516.4	6548.7
27.5°	15252.8	7961.7	5365.2	5594.7	5838.6	6075.3	6147.0	6136.3	6114.8	6150.6
30°	14499.7	6663.5	5064.0	5239.7	5573.2	5788.4	5853.0	5827.8	5784.8	5824.3
32.5°	13703.5	5601.9	4816.5	4992.2	5354.4	5566.0	5630.6	5605.5	5573.2	5605.5
35°	12961.1	4859.5	4587.0	4827.3	5182.3	5390.3	5472.8	5476.4	5476.4	5515.8
37.5°	12279.7	4425.6	4396.9	4723.2	5064.0	5250.4	5368.8	5376.0	5221.8	5232.5
40°	11648.5	4242.7	4310.8	4655.1	4949.2	5128.5	5135.7	4734.0	4450.7	4443.5
42.5°	11132.1	4206.8	4335.9	4647.9	4866.7	4873.9	4368.2	4056.2	3977.3	3980.9
45°	10647.9	4196.0	4393.3	4647.9	4744.8	4210.4	3869.7	3787.2	3794.4	3823.1
47.5°	10106.4	4153.0	4404.1	4583.4	4393.3	3744.2	3643.7	3607.9	3593.5	3600.7
50°	9514.6	3998.8	4267.8	4454.3	3790.8	3543.3	3417.8	3407.0	3425.0	3435.7
52.5°	8890.6	3747.8	4034.7	4221.2	3514.6	3367.6	3227.7	3252.8	3331.7	3356.8
55°	8481.8	3453.7	3726.2	3754.9	3321.0	3202.6	3084.3	3141.7	3288.7	3335.3
57.5°	8374.2	3141.7	3374.8	3342.5	3073.5	3059.2	2987.4	3037.7	3224.1	3292.3
60°	8341.9	2861.9	3030.5	3005.4	2833.2	2901.4	2883.4	2908.5	2973.1	2994.6
62.5°	8090.8	2639.6	2722.1	2686.2	2618.0	2736.4	2779.4	2725.6	2775.8	2801.0
65°	7452.5	2460.2	2420.8	2395.7	2424.4	2532.0	2618.0	2510.5	2557.1	2628.8
67.5°	6398.1	2216.4	2108.8	2137.5	2227.1	2284.5	2395.7	2273.8	2313.2	2435.1
70°	5175.1	1907.9	1811.1	1893.6	1979.7	2098.0	2116.0	2033.5	2126.7	2263.0
72.5°	3661.7	1595.9	1527.8	1696.4	1725.0	1879.3	1839.8	1800.4	1929.5	1976.1
75°	2539.1	1287.5	1248.1	1377.2	1481.2	1613.9	1585.2	1631.8	1904.4	1925.9
77.5°	1606.7	1000.6	975.5	1058.0	1201.4	1348.5	1395.1	1925.9	3252.8	3381.9
80°	932.5	746.0	717.3	781.8	907.4	1043.6	1344.9	2363.4	2144.6	2119.5
82.5°	520.0	512.9	477.0	494.9	606.1	753.1	1900.8	1664.1	1352.1	1395.1
85°	243.9	301.3	258.2	247.5	340.7	882.2	1269.6	950.4	631.2	616.9
87.5°	64.6	57.4	57.4	64.6	143.5	760.3	505.7	405.3	240.3	233.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)