

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: P952351

Luminaire Tested: **GALN-SB6B-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P952351
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-SB6B-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32212 lumens
Efficiency: N/A
Efficacy: 146.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 220.4
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

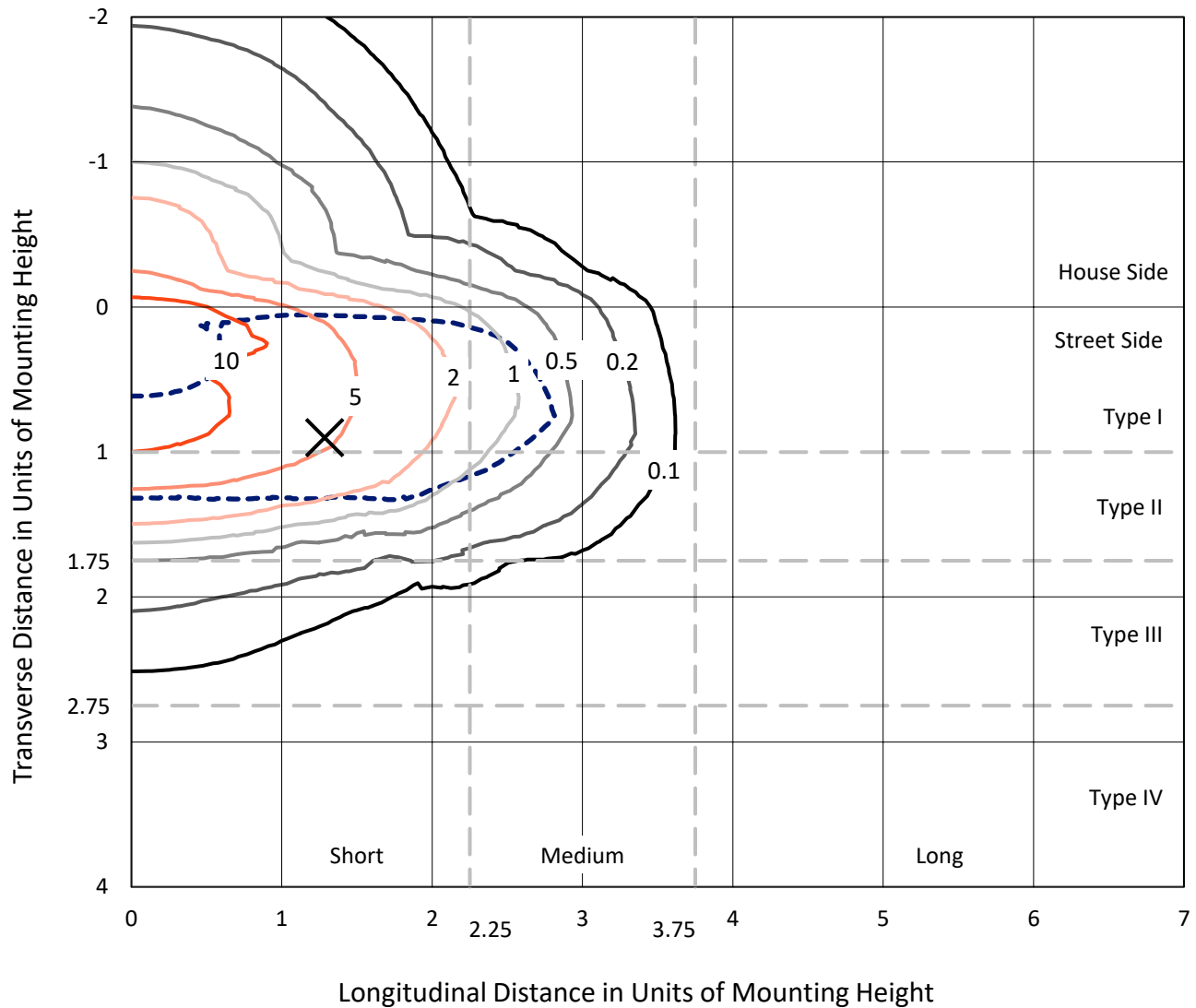


REPORT NUMBER: P952351

CATALOG NUMBER: GALN-SB6B-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

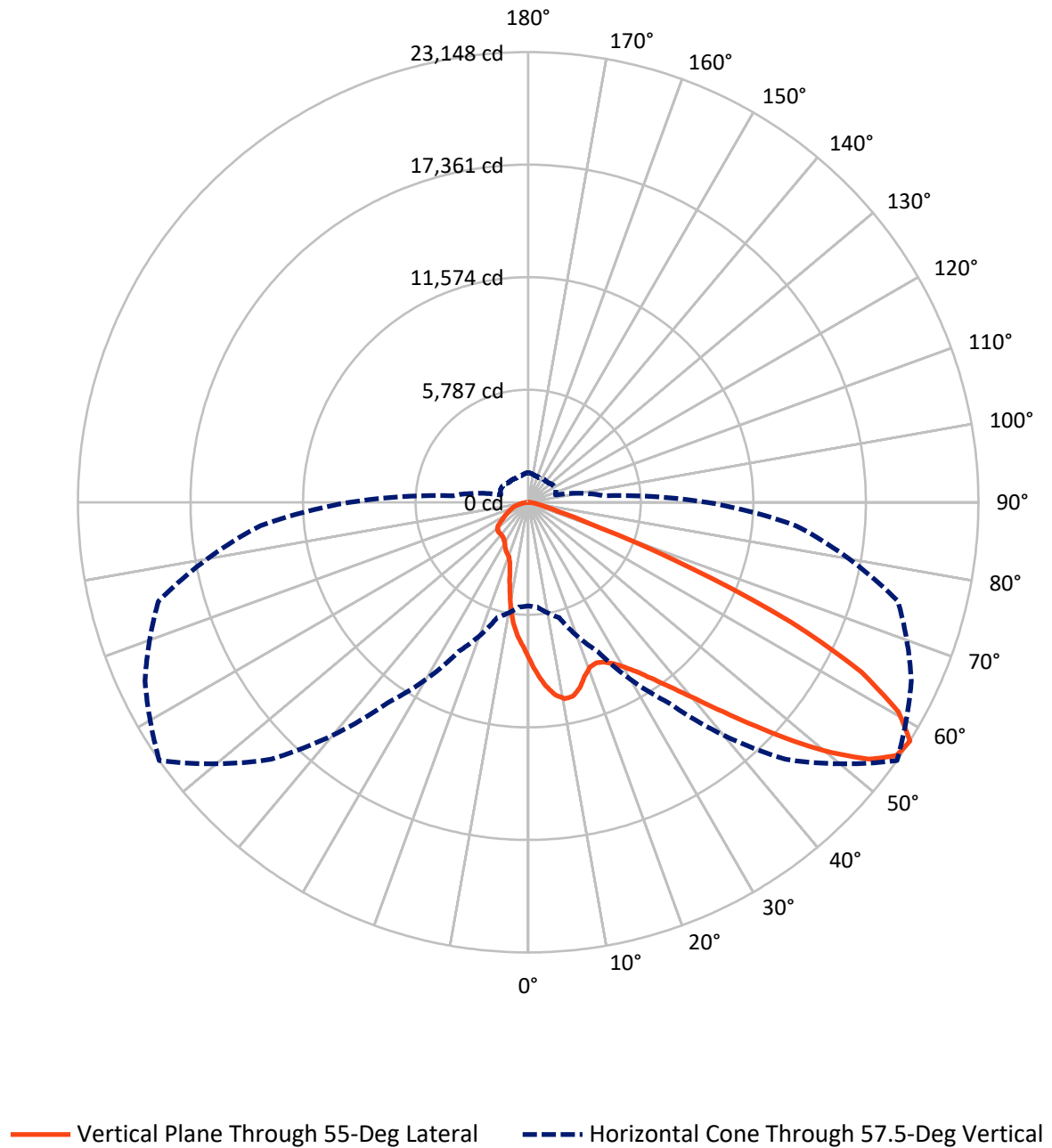


Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
Type II - Short - N/A

REPORT NUMBER: P952351

CATALOG NUMBER: GALN-SB6B-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P952351

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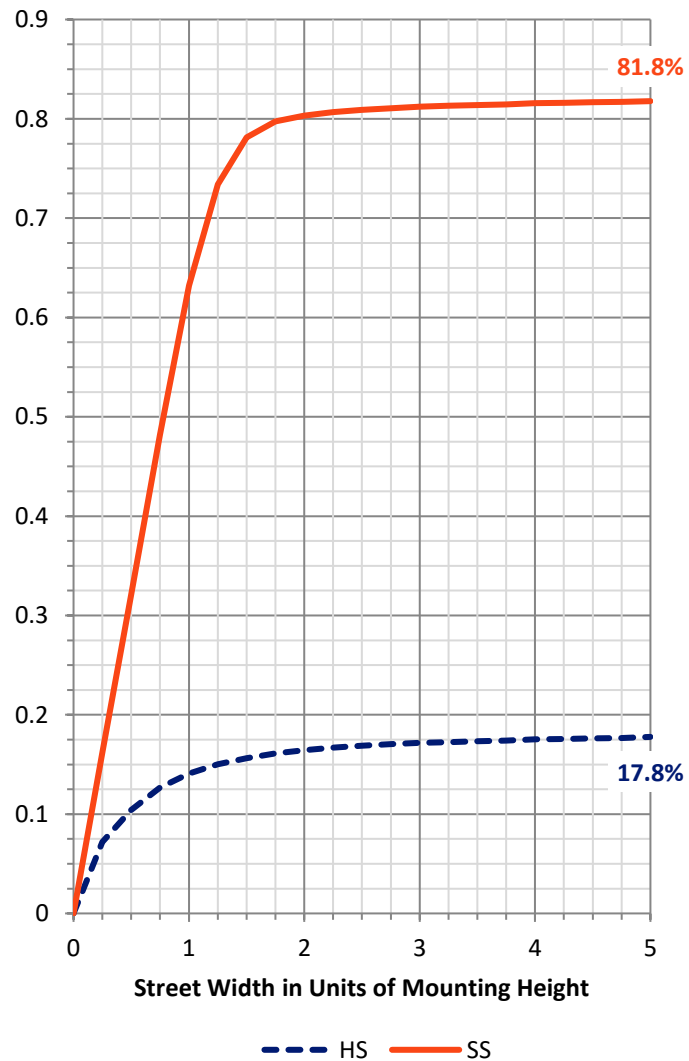
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5828.6	0.0	5828.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	26383.4	0.0	26383.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	32212.0	0.0	32212.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	749.0	2.3
10°-20°	1890.4	5.9
20°-30°	3016.6	9.4
30°-40°	4776.0	14.8
40°-50°	7310.2	22.7
50°-60°	7829.9	24.3
60°-70°	4925.8	15.3
70°-80°	1456.7	4.5
80°-90°	257.6	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°	32212.0	100.0
0°-180°	32212.0	100.0

Coefficient of Utilization



REPORT NUMBER: P952351

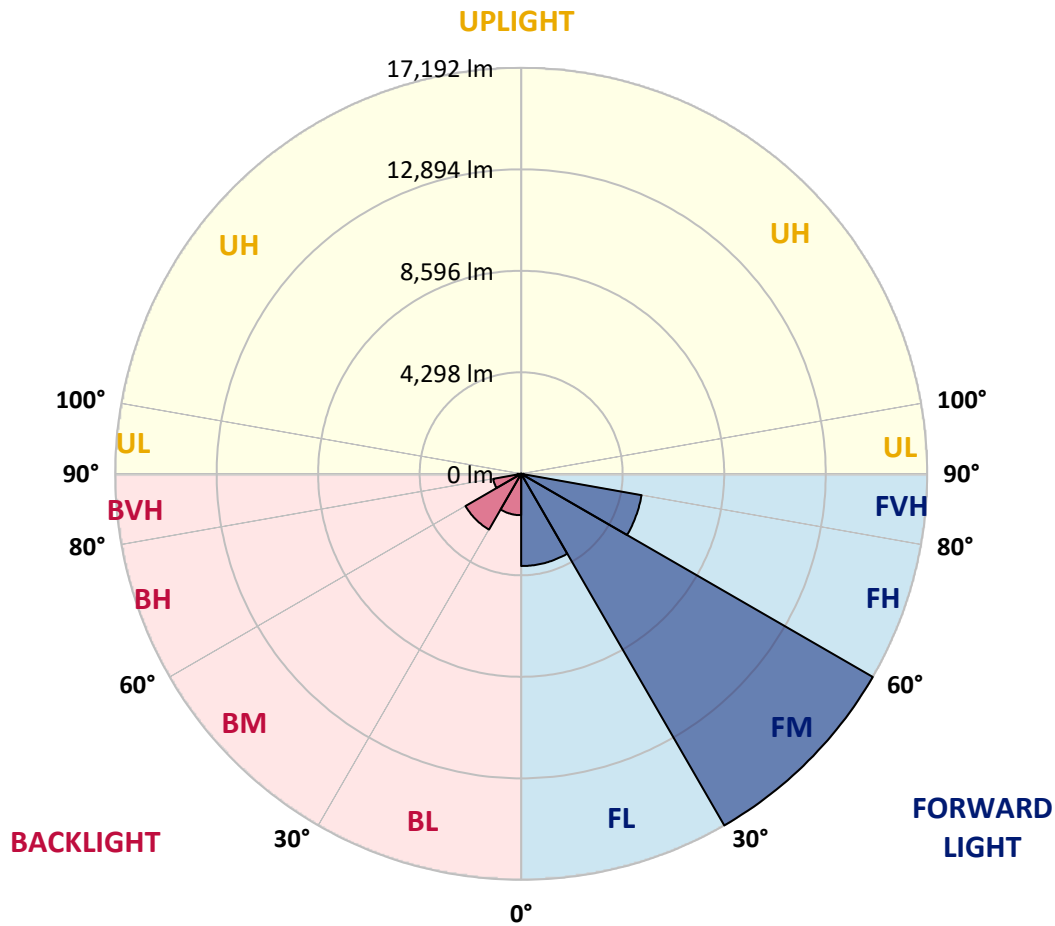
CATALOG NUMBER: GALN-SB6B-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3904.1	12.1			
FM	(30°-60°)	17191.8	53.4			
FH	(60°-80°)	5178.7	16.1			G3/7500
FVH	(80°-90°)	108.8	0.3			G2/225
BL	(0°-30°)	1751.9	5.4	B3/2500		
BM	(30°-60°)	2724.2	8.5	B3/5000		
BH	(60°-80°)	1203.7	3.7	B3/2500		G3/2500
BVH	(80°-90°)	148.7	0.5			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short



REPORT NUMBER: P952351

CATALOG NUMBER: GALN-SB6B-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3
2.5°	9260.2	9253.6	9290.2	9165.3	9080.4	8965.5	8814.0	8620.8	8412.7	8192.8	8097.9
5°	10094.5	10036.2	10074.5	9981.3	9888.0	9714.8	9490.0	9175.3	8790.7	8352.7	8119.6
7.5°	9963.0	9923.0	10021.2	10104.5	10174.4	10152.8	9987.9	9658.2	9162.0	8525.9	8187.8
10°	8902.2	8857.3	8995.5	9283.6	9706.5	10074.5	10274.4	10069.5	9541.7	8715.7	8254.5
12.5°	7966.4	7944.7	8036.3	8269.4	8739.0	9445.1	10237.7	10429.2	9936.3	8940.5	8344.4
15°	7566.7	7540.1	7598.4	7716.6	8016.3	8674.1	9904.7	10675.7	10324.3	9200.3	8487.6
17.5°	7478.5	7448.5	7473.5	7535.1	7728.2	8229.5	9401.8	10797.2	10729.0	9490.0	8607.5
20°	7641.7	7616.7	7620.0	7616.7	7751.6	8149.5	9052.1	10750.6	11082.0	9756.5	8724.0
22.5°	8036.3	7994.7	7996.3	7908.1	7981.4	8289.4	8960.5	10625.7	11396.7	9989.6	8812.3
25°	8679.1	8604.1	8619.1	8394.3	8374.4	8602.5	9103.7	10529.1	11709.8	10176.1	8829.0
27.5°	9558.3	9473.4	9428.4	9093.7	8933.9	9047.1	9395.1	10562.4	12006.2	10337.6	8787.3
30°	10657.4	10554.1	10462.5	9987.9	9698.2	9656.6	9848.1	10782.2	12355.9	10507.5	8715.7
32.5°	12004.5	11884.6	11718.1	11088.6	10680.7	10462.5	10434.2	11173.6	12765.5	10724.0	8679.1
35°	13608.1	13451.6	13215.1	12400.8	11884.6	11438.3	11206.9	11738.1	13326.7	11050.3	8720.7
37.5°	15260.0	15083.5	14867.0	13897.9	13263.4	12605.7	12149.4	12504.1	14074.4	11493.3	8830.6
40°	16783.7	16585.5	16384.0	15521.4	14840.4	14047.7	13303.4	13473.2	14988.6	12022.8	9017.1
42.5°	17682.9	17536.3	17459.7	16993.5	16467.3	15663.0	14738.8	14622.2	16016.0	12632.3	9230.3
45°	17642.9	17583.0	17819.4	18012.6	17887.7	17441.4	16420.7	15892.8	17046.8	13160.2	9426.8
47.5°	16700.4	16740.4	17268.2	18354.0	18831.9	19065.0	18335.6	17140.0	17942.7	13554.8	9515.0
50°	14136.0	14169.3	15391.6	17732.8	19075.0	20388.9	20235.7	18357.3	18637.1	13796.3	9495.0
52.5°	12106.1	12127.7	12652.3	15891.1	18272.4	21054.9	21947.5	19504.6	19144.9	13862.9	9383.5
55°	9118.7	9193.6	9781.5	12467.4	16184.2	20527.1	22989.9	20686.9	19466.3	13869.5	9266.9
57.5°	5327.0	5408.6	6134.6	8462.6	12579.0	18687.0	23148.1	21736.0	19684.5	13816.3	9197.0
60°	2609.4	2644.4	2960.7	4447.8	7756.6	15141.8	21875.9	22243.9	19806.0	13788.0	9193.6
62.5°	1758.5	1753.5	1766.8	2194.7	3821.7	9728.2	19224.9	21354.7	19741.1	13679.7	9160.3
65°	1512.0	1493.7	1443.7	1540.3	1979.9	4449.4	14853.7	18700.3	19246.5	13408.3	8932.2
67.5°	1307.2	1308.9	1310.5	1280.5	1413.8	2053.2	9077.1	14730.5	17471.4	12122.7	8053.0
70°	1082.4	1097.4	1104.0	1104.0	1152.3	1347.2	3874.9	10096.2	13781.3	9505.0	6486.0
72.5°	985.8	954.2	957.5	940.8	940.8	1025.8	1560.3	5723.3	8682.4	5347.0	3958.2
75°	804.3	824.3	827.6	816.0	777.7	782.6	925.9	2401.2	3715.1	2218.1	1956.6
77.5°	694.4	694.4	701.1	692.7	662.8	586.2	617.8	930.9	1263.9	909.2	977.5
80°	557.8	556.2	584.5	601.1	554.5	433.0	394.7	514.6	561.2	399.7	507.9
82.5°	271.4	288.1	401.3	457.9	421.3	313.1	241.5	319.7	299.7	176.5	228.1
85°	158.2	149.9	179.8	254.8	241.5	173.2	116.6	166.5	156.5	89.9	91.6
87.5°	50.0	46.6	36.6	86.6	69.9	48.3	31.6	48.3	43.3	20.0	20.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P952351

CATALOG NUMBER: GALN-SB6B-727-U-AFL

CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3	8071.3
2.5°	7979.7	7783.2	7588.4	7410.2	7302.0	7232.0	7162.1	7083.8	7053.8	7008.9
5°	7899.8	7520.1	7182.1	6890.6	6625.9	6417.7	6207.9	6038.1	5961.5	6013.1
7.5°	7853.1	7303.6	6782.4	6247.9	5733.3	5322.0	4964.0	4712.5	4599.3	4627.6
10°	7811.5	7058.8	6264.5	5420.3	4680.9	4171.4	3805.0	3613.5	3541.9	3556.9
12.5°	7773.2	6784.1	5640.1	4529.4	3743.4	3407.0	3302.1	3303.8	3317.1	3327.1
15°	7766.5	6452.7	4942.3	3750.1	3237.2	3215.5	3328.8	3400.4	3438.7	3450.3
17.5°	7756.6	6056.4	4231.3	3218.9	3113.9	3260.5	3365.4	3412.0	3442.0	3443.7
20°	7716.6	5553.5	3575.2	2965.7	3087.3	3213.9	3278.8	3315.4	3340.4	3348.7
22.5°	7593.4	4994.0	3064.0	2852.5	2980.7	3082.3	3158.9	3200.5	3215.5	3225.5
25°	7371.9	4367.9	2711.0	2744.3	2832.5	2960.7	3022.4	3030.7	3025.7	3040.7
27.5°	7082.1	3696.8	2491.2	2597.7	2711.0	2820.9	2854.2	2849.2	2839.2	2855.8
30°	6732.5	3094.0	2351.3	2432.9	2587.7	2687.7	2717.6	2706.0	2686.0	2704.3
32.5°	6362.8	2601.1	2236.4	2318.0	2486.2	2584.4	2614.4	2602.7	2587.7	2602.7
35°	6018.1	2256.4	2129.8	2241.4	2406.2	2502.8	2541.1	2542.8	2542.8	2561.1
37.5°	5701.7	2054.9	2041.5	2193.1	2351.3	2437.9	2492.8	2496.2	2424.5	2429.5
40°	5408.6	1969.9	2001.6	2161.4	2298.0	2381.3	2384.6	2198.1	2066.5	2063.2
42.5°	5168.8	1953.3	2013.2	2158.1	2259.7	2263.0	2028.2	1883.4	1846.7	1848.4
45°	4944.0	1948.3	2039.9	2158.1	2203.1	1955.0	1796.8	1758.5	1761.8	1775.1
47.5°	4692.6	1928.3	2044.9	2128.1	2039.9	1738.5	1691.9	1675.2	1668.5	1671.9
50°	4417.8	1856.7	1981.6	2068.2	1760.1	1645.2	1586.9	1582.0	1590.3	1595.3
52.5°	4128.1	1740.1	1873.4	1960.0	1631.9	1563.6	1498.7	1510.3	1547.0	1558.6
55°	3938.2	1603.6	1730.2	1743.5	1542.0	1487.0	1432.1	1458.7	1527.0	1548.6
57.5°	3888.3	1458.7	1567.0	1552.0	1427.1	1420.4	1387.1	1410.4	1497.0	1528.7
60°	3873.3	1328.8	1407.1	1395.4	1315.5	1347.2	1338.8	1350.5	1380.5	1390.5
62.5°	3756.7	1225.6	1263.9	1247.2	1215.6	1270.6	1290.5	1265.6	1288.9	1300.5
65°	3460.3	1142.3	1124.0	1112.4	1125.7	1175.6	1215.6	1165.6	1187.3	1220.6
67.5°	2970.7	1029.1	979.1	992.5	1034.1	1060.7	1112.4	1055.7	1074.1	1130.7
70°	2402.9	885.9	840.9	879.2	919.2	974.1	982.5	944.2	987.5	1050.7
72.5°	1700.2	741.0	709.4	787.6	801.0	872.6	854.3	835.9	895.9	917.5
75°	1179.0	597.8	579.5	639.4	687.7	749.3	736.0	757.7	884.2	894.2
77.5°	746.0	464.6	452.9	491.2	557.8	626.1	647.8	894.2	1510.3	1570.3
80°	433.0	346.4	333.0	363.0	421.3	484.6	624.5	1097.4	995.8	984.1
82.5°	241.5	238.1	221.5	229.8	281.4	349.7	882.6	772.7	627.8	647.8
85°	113.2	139.9	119.9	114.9	158.2	409.6	589.5	441.3	293.1	286.4
87.5°	30.0	26.6	26.6	30.0	66.6	353.0	234.8	188.2	111.6	108.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)