

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: P946282

Luminaire Tested: **GALN-SB2A-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946282
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-SB2A-727-U-AFL
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8462 lumens
Efficiency: N/A
Efficacy: 147.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 57.3
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

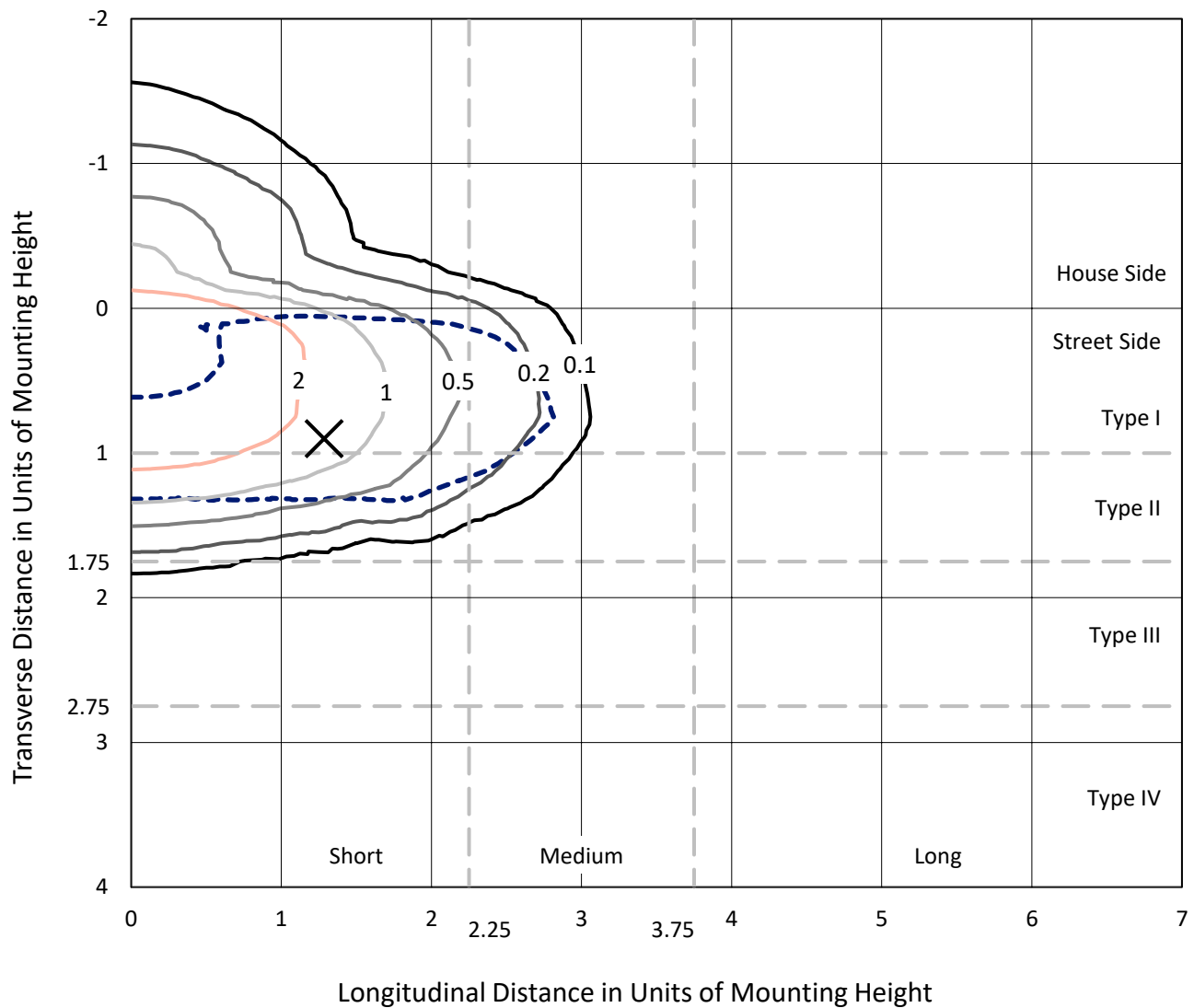


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

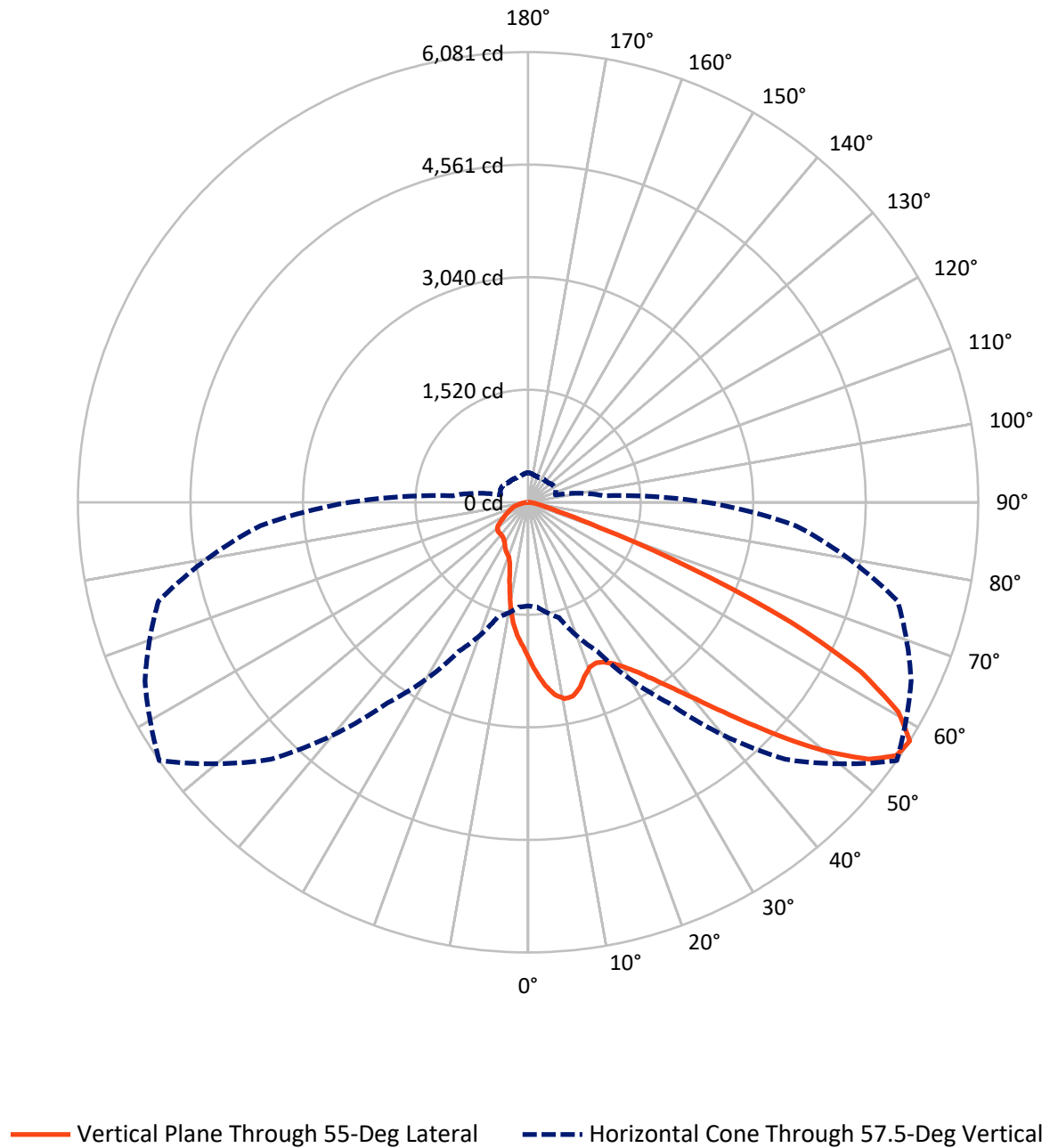


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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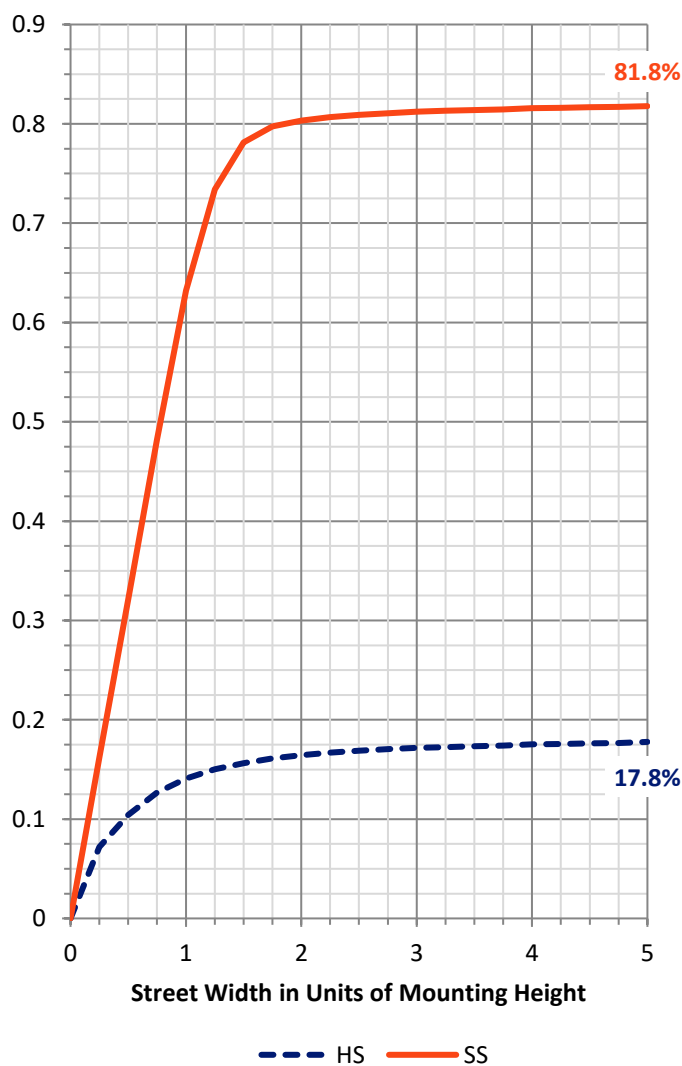
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1531.2	0.0	1531.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	6930.8	0.0	6930.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	8462.0	0.0	8462.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	196.8	2.3
10°-20°	496.6	5.9
20°-30°	792.4	9.4
30°-40°	1254.6	14.8
40°-50°	1920.4	22.7
50°-60°	2056.9	24.3
60°-70°	1294.0	15.3
70°-80°	382.7	4.5
80°-90°	67.7	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°	8462.0	100.0
0°-180°	8462.0	100.0

Coefficient of Utilization



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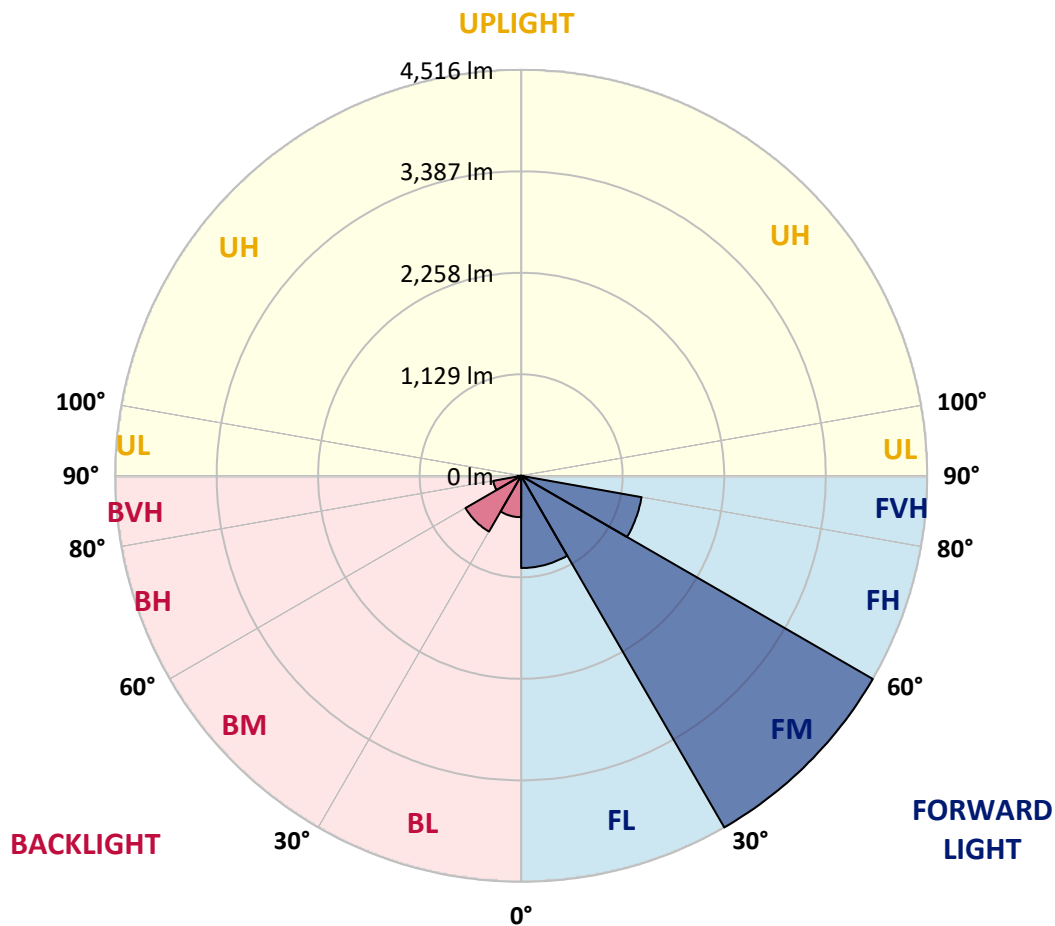
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1025.6	12.1			
FM	(30°-60°)	4516.2	53.4			
FH	(60°-80°)	1360.4	16.1			G1/1800
FVH	(80°-90°)	28.6	0.3			G1/100
BL	(0°-30°)	460.2	5.4	B1/500		
BM	(30°-60°)	715.6	8.5	B1/1000		
BH	(60°-80°)	316.2	3.7	B1/500		G1/500
BVH	(80°-90°)	39.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3
2.5°	2432.6	2430.9	2440.5	2407.7	2385.4	2355.2	2315.4	2264.7	2210.0	2152.2	2127.3
5°	2651.8	2636.5	2646.6	2622.1	2597.6	2552.1	2493.0	2410.3	2309.3	2194.2	2133.0
7.5°	2617.2	2606.7	2632.6	2654.4	2672.8	2667.1	2623.8	2537.2	2406.8	2239.7	2150.9
10°	2338.6	2326.8	2363.1	2438.8	2549.9	2646.6	2699.0	2645.2	2506.6	2289.6	2168.4
12.5°	2092.7	2087.1	2111.1	2172.4	2295.7	2481.2	2689.4	2739.7	2610.2	2348.6	2192.0
15°	1987.8	1980.8	1996.1	2027.1	2105.9	2278.7	2601.9	2804.5	2712.2	2416.9	2229.7
17.5°	1964.6	1956.7	1963.3	1979.4	2030.2	2161.9	2469.8	2836.4	2818.5	2493.0	2261.2
20°	2007.4	2000.9	2001.8	2000.9	2036.3	2140.9	2378.0	2824.2	2911.2	2563.0	2291.8
22.5°	2111.1	2100.2	2100.6	2077.4	2096.7	2177.6	2353.9	2791.3	2993.9	2624.2	2315.0
25°	2280.0	2260.3	2264.2	2205.2	2199.9	2259.8	2391.5	2766.0	3076.1	2673.2	2319.3
27.5°	2510.9	2488.6	2476.8	2388.9	2346.9	2376.6	2468.1	2774.7	3154.0	2715.7	2308.4
30°	2799.7	2772.5	2748.5	2623.8	2547.7	2536.8	2587.1	2832.5	3245.9	2760.3	2289.6
32.5°	3153.6	3122.1	3078.3	2913.0	2805.8	2748.5	2741.0	2935.3	3353.5	2817.2	2280.0
35°	3574.8	3533.7	3471.6	3257.7	3122.1	3004.8	2944.0	3083.6	3500.9	2902.9	2290.9
37.5°	4008.8	3962.4	3905.5	3650.9	3484.3	3311.5	3191.6	3284.8	3697.3	3019.3	2319.8
40°	4409.0	4357.0	4304.0	4077.4	3898.5	3690.3	3494.8	3539.4	3937.5	3158.4	2368.8
42.5°	4645.2	4606.7	4586.6	4464.1	4325.9	4114.6	3871.8	3841.2	4207.4	3318.5	2424.8
45°	4634.7	4619.0	4681.1	4731.9	4699.0	4581.8	4313.7	4175.0	4478.1	3457.1	2476.4
47.5°	4387.1	4397.6	4536.3	4821.5	4947.1	5008.3	4816.7	4502.6	4713.5	3560.8	2499.6
50°	3713.5	3722.2	4043.3	4658.4	5010.9	5356.1	5315.8	4822.4	4895.9	3624.2	2494.3
52.5°	3180.2	3185.9	3323.7	4174.6	4800.1	5531.1	5765.5	5123.8	5029.3	3641.7	2465.0
55°	2395.5	2415.1	2569.6	3275.2	4251.5	5392.4	6039.4	5434.4	5113.7	3643.5	2434.4
57.5°	1399.4	1420.8	1611.6	2223.1	3304.5	4909.0	6080.9	5710.0	5171.1	3629.5	2416.0
60°	685.5	694.7	777.8	1168.4	2037.6	3977.7	5746.7	5843.4	5203.0	3622.1	2415.1
62.5°	461.9	460.6	464.1	576.6	1003.9	2555.6	5050.3	5609.8	5185.9	3593.6	2406.4
65°	397.2	392.4	379.3	404.6	520.1	1168.9	3902.0	4912.5	5056.0	3522.3	2346.5
67.5°	343.4	343.8	344.3	336.4	371.4	539.4	2384.5	3869.7	4589.7	3184.6	2115.5
70°	284.3	288.3	290.0	290.0	302.7	353.9	1017.9	2652.2	3620.3	2496.9	1703.9
72.5°	259.0	250.7	251.5	247.2	247.2	269.5	409.9	1503.5	2280.8	1404.6	1039.8
75°	211.3	216.5	217.4	214.3	204.3	205.6	243.2	630.8	975.9	582.7	514.0
77.5°	182.4	182.4	184.2	182.0	174.1	154.0	162.3	244.5	332.0	238.8	256.8
80°	146.5	146.1	153.5	157.9	145.7	113.7	103.7	135.2	147.4	105.0	133.4
82.5°	71.3	75.7	105.4	120.3	110.7	82.2	63.4	84.0	78.7	46.4	59.9
85°	41.6	39.4	47.2	66.9	63.4	45.5	30.6	43.7	41.1	23.6	24.1
87.5°	13.1	12.2	9.6	22.7	18.4	12.7	8.3	12.7	11.4	5.2	5.2
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3	2120.3
2.5°	2096.2	2044.6	1993.4	1946.6	1918.2	1899.8	1881.5	1860.9	1853.0	1841.2
5°	2075.2	1975.5	1886.7	1810.2	1740.6	1685.9	1630.8	1586.2	1566.1	1579.6
7.5°	2063.0	1918.6	1781.7	1641.3	1506.1	1398.1	1304.0	1238.0	1208.2	1215.7
10°	2052.1	1854.3	1645.7	1423.9	1229.7	1095.8	999.6	949.3	930.4	934.4
12.5°	2042.0	1782.2	1481.6	1189.9	983.4	895.0	867.5	867.9	871.4	874.0
15°	2040.2	1695.1	1298.3	985.1	850.4	844.7	874.5	893.3	903.3	906.4
17.5°	2037.6	1591.0	1111.6	845.6	818.0	856.5	884.1	896.3	904.2	904.6
20°	2027.1	1458.9	939.2	779.1	811.0	844.3	861.3	871.0	877.5	879.7
22.5°	1994.8	1311.9	804.9	749.3	783.0	809.7	829.8	840.8	844.7	847.3
25°	1936.6	1147.4	712.2	720.9	744.1	777.8	794.0	796.2	794.8	798.8
27.5°	1860.5	971.1	654.4	682.4	712.2	741.0	749.8	748.5	745.8	750.2
30°	1768.6	812.8	617.7	639.1	679.8	706.0	713.9	710.9	705.6	710.4
32.5°	1671.5	683.3	587.5	608.9	653.1	678.9	686.8	683.7	679.8	683.7
35°	1580.9	592.7	559.5	588.8	632.1	657.5	667.5	668.0	668.0	672.8
37.5°	1497.8	539.8	536.3	576.1	617.7	640.4	654.9	655.7	636.9	638.2
40°	1420.8	517.5	525.8	567.8	603.7	625.5	626.4	577.4	542.9	542.0
42.5°	1357.8	513.1	528.9	566.9	593.6	594.5	532.8	494.8	485.1	485.6
45°	1298.8	511.8	535.9	566.9	578.7	513.6	472.0	461.9	462.8	466.3
47.5°	1232.7	506.6	537.2	559.1	535.9	456.7	444.4	440.1	438.3	439.2
50°	1160.5	487.8	520.6	543.3	462.4	432.2	416.9	415.6	417.8	419.1
52.5°	1084.4	457.1	492.1	514.9	428.7	410.8	393.7	396.8	406.4	409.4
55°	1034.6	421.3	454.5	458.0	405.1	390.6	376.2	383.2	401.1	406.8
57.5°	1021.4	383.2	411.6	407.7	374.9	373.1	364.4	370.5	393.3	401.6
60°	1017.5	349.1	369.6	366.6	345.6	353.9	351.7	354.8	362.6	365.3
62.5°	986.9	322.0	332.0	327.6	319.3	333.8	339.0	332.5	338.6	341.6
65°	909.0	300.1	295.3	292.2	295.7	308.8	319.3	306.2	311.9	320.6
67.5°	780.4	270.3	257.2	260.7	271.7	278.7	292.2	277.3	282.2	297.0
70°	631.2	232.7	220.9	231.0	241.5	255.9	258.1	248.0	259.4	276.0
72.5°	446.6	194.7	186.4	206.9	210.4	229.2	224.4	219.6	235.3	241.0
75°	309.7	157.0	152.2	168.0	180.7	196.9	193.4	199.0	232.3	234.9
77.5°	196.0	122.0	119.0	129.0	146.5	164.5	170.2	234.9	396.8	412.5
80°	113.7	91.0	87.5	95.4	110.7	127.3	164.0	288.3	261.6	258.5
82.5°	63.4	62.6	58.2	60.4	73.9	91.9	231.8	203.0	164.9	170.2
85°	29.7	36.7	31.5	30.2	41.6	107.6	154.9	115.9	77.0	75.2
87.5°	7.9	7.0	7.0	7.9	17.5	92.7	61.7	49.4	29.3	28.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)