

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: P940777

Luminaire Tested: **GALN-SB4A-730-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940777
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-SB4A-730-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17990 lumens
Efficiency: N/A
Efficacy: 157.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 114
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

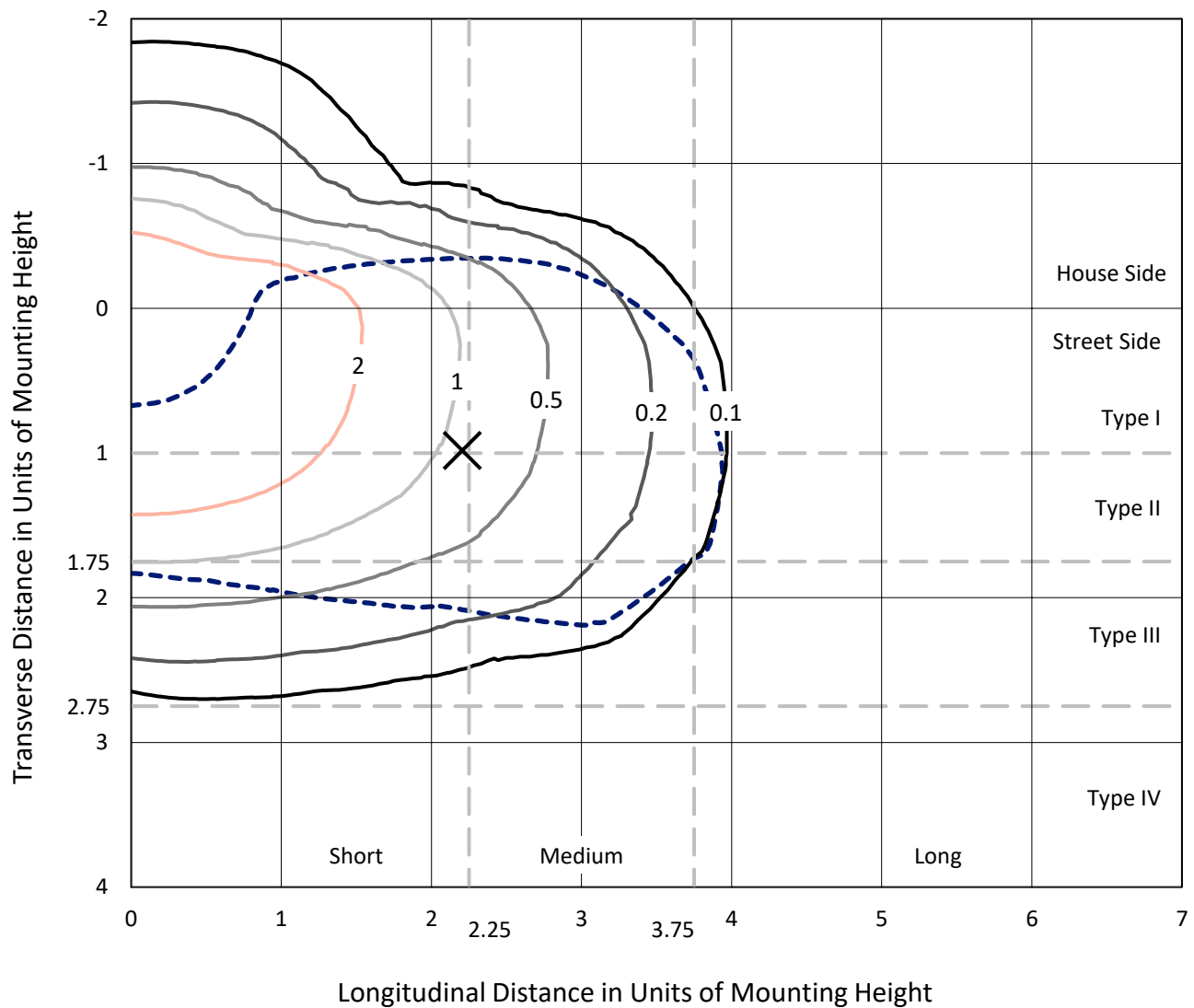


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

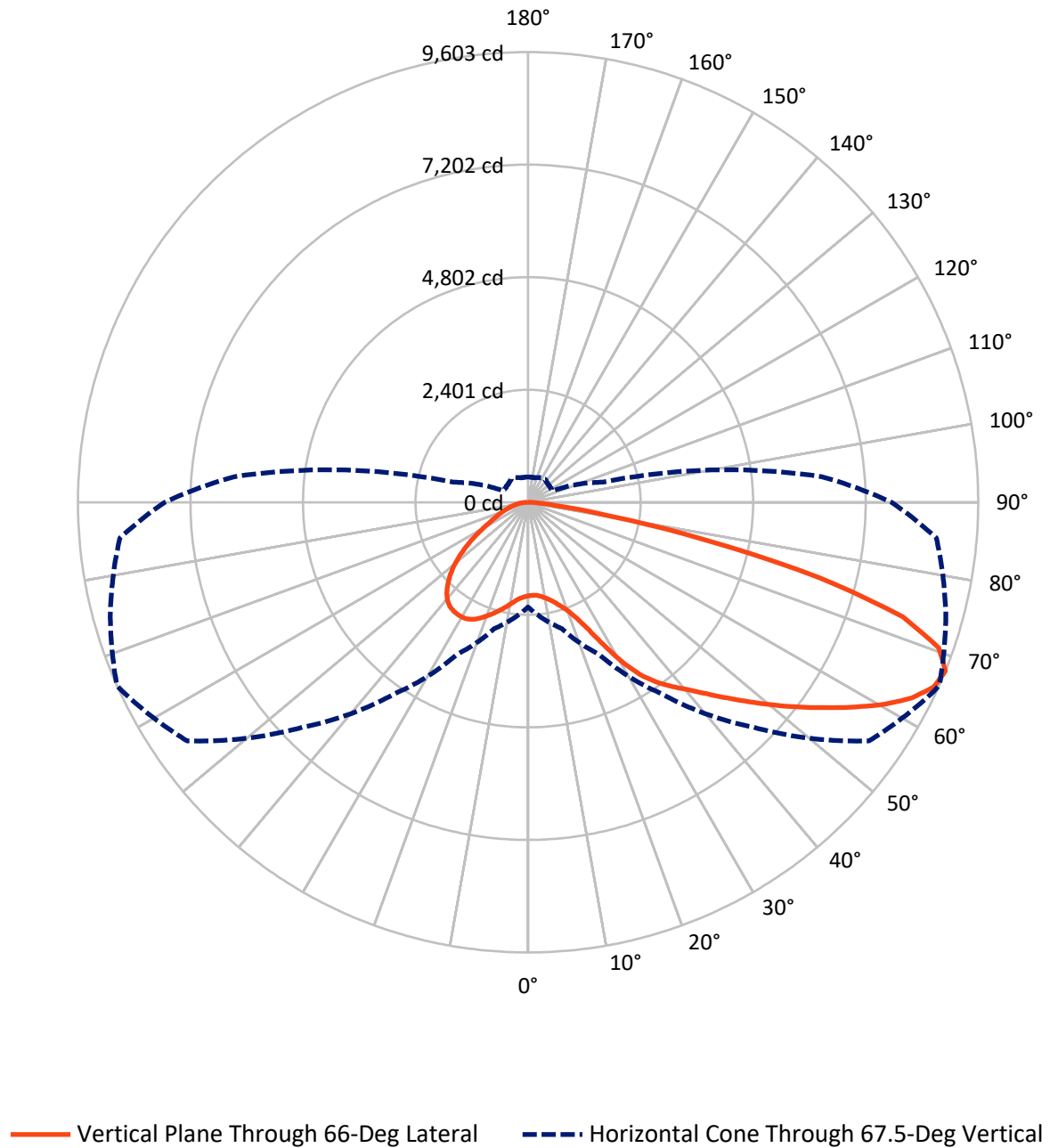


Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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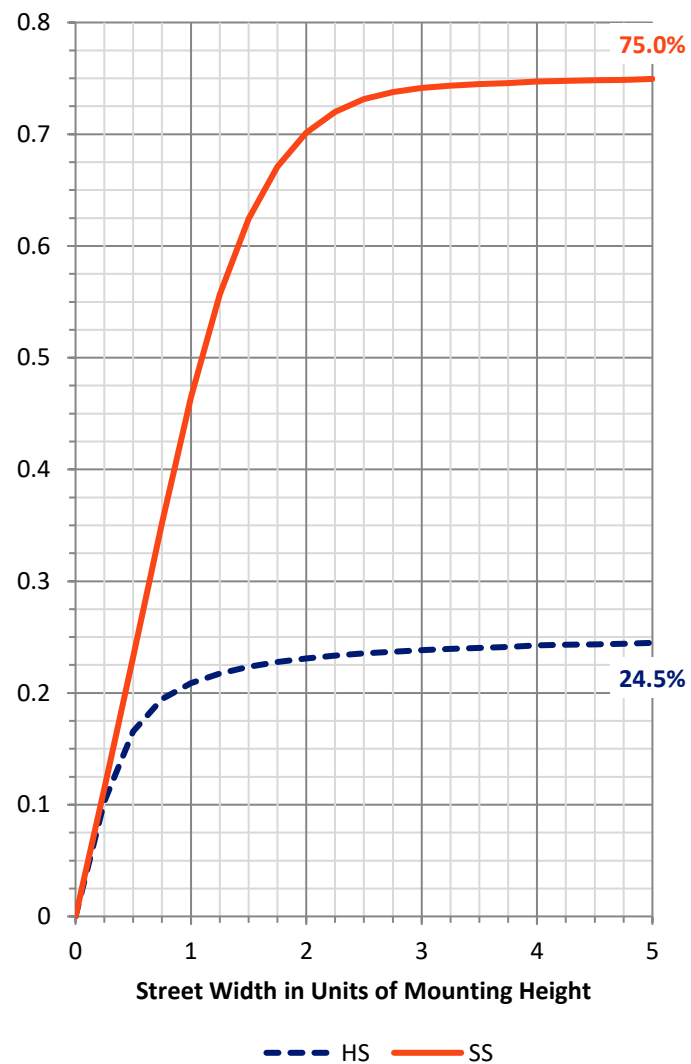
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4473.2	0.0	4473.2
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	13516.8	0.0	13516.8
	% Fixture	75.1	0.0	75.1
Total	Lumens	17990.0	0.0	17990.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	197.8	1.1
10°-20°	653.6	3.6
20°-30°	1259.8	7.0
30°-40°	2208.9	12.3
40°-50°	3283.8	18.3
50°-60°	4162.6	23.1
60°-70°	4073.0	22.6
70°-80°	1942.9	10.8
80°-90°	207.6	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°	17990.0	100.0
0°-180°	17990.0	100.0

Coefficient of Utilization



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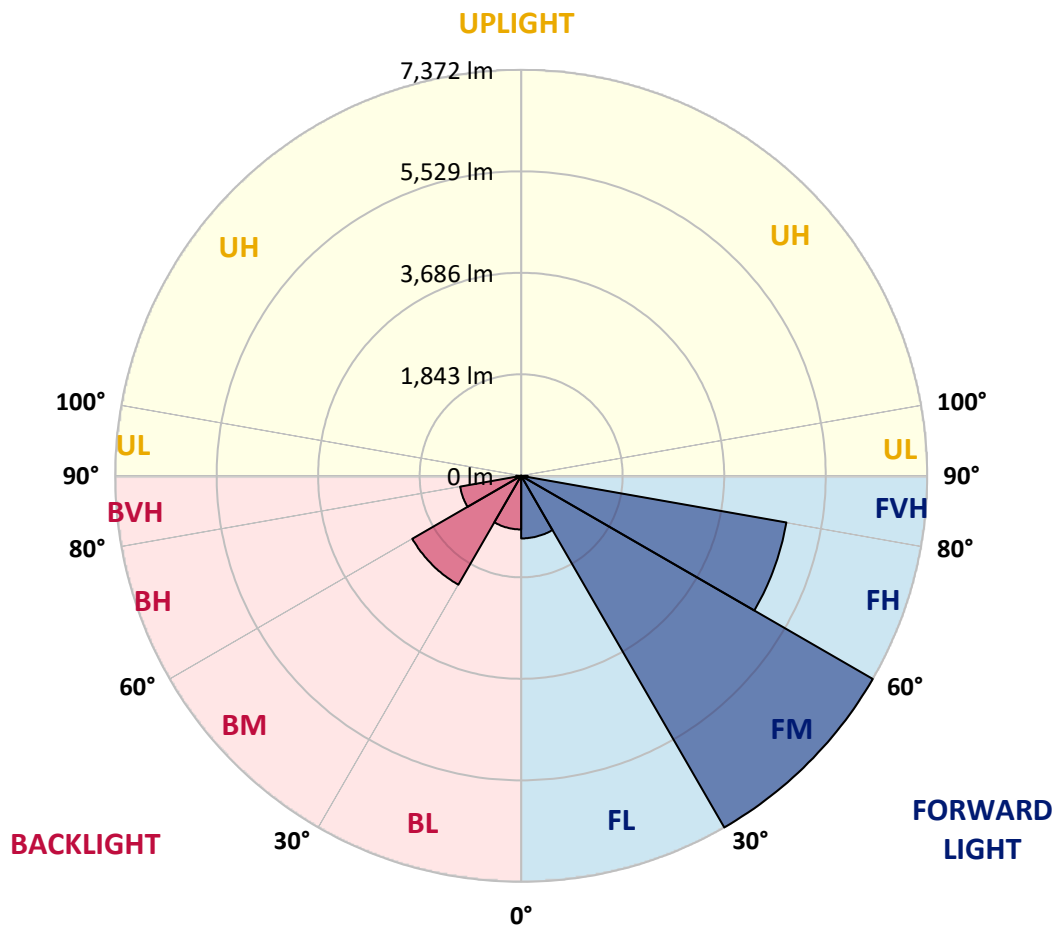
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1136.8	6.3			
FM	(30°-60°)	7372.2	41.0			
FH	(60°-80°)	4890.2	27.2			G2/5000
FVH	(80°-90°)	117.7	0.7			G2/225
BL	(0°-30°)	974.4	5.4	B2/1000		
BM	(30°-60°)	2283.2	12.7	B2/2500		
BH	(60°-80°)	1125.7	6.3	B3/2500		G3/2500
BVH	(80°-90°)	89.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3
2.5°	1974.5	1985.9	1983.0	1978.3	1977.4	1979.3	1982.1	1984.9	1984.0	1988.7	1996.3
5°	1968.9	1980.2	1979.3	1979.3	1983.0	1990.6	1995.3	2000.1	1995.3	2001.0	2011.4
7.5°	1972.6	1981.2	1984.9	1988.7	1998.2	2012.3	2023.7	2034.1	2028.4	2035.0	2048.3
10°	2020.8	2027.5	2031.2	2031.2	2037.9	2053.9	2065.3	2084.2	2079.5	2089.8	2106.9
12.5°	2108.8	2115.4	2115.4	2111.6	2116.3	2126.7	2130.5	2151.3	2142.8	2159.8	2176.8
15°	2216.5	2229.7	2219.3	2212.7	2214.6	2225.0	2224.1	2240.1	2231.6	2245.8	2260.9
17.5°	2335.6	2352.6	2335.6	2334.7	2330.9	2342.2	2343.2	2357.3	2342.2	2352.6	2363.0
20°	2476.4	2500.1	2485.9	2490.6	2482.1	2486.8	2491.6	2512.4	2488.7	2496.3	2493.5
22.5°	2674.9	2703.3	2688.2	2706.1	2700.5	2696.7	2695.7	2732.6	2695.7	2698.6	2671.2
25°	2964.2	2998.2	2971.7	2996.3	2996.3	3008.6	3022.8	3070.0	3008.6	2990.6	2919.7
27.5°	3391.4	3425.4	3373.4	3388.6	3383.8	3414.1	3399.0	3516.2	3450.0	3420.7	3278.0
30°	3905.6	3966.1	3867.8	3864.0	3859.3	3907.5	3929.2	4006.7	3939.6	3910.3	3738.3
32.5°	4461.4	4524.7	4407.5	4373.5	4355.5	4384.8	4366.8	4429.2	4382.9	4337.5	4124.9
35°	5049.3	5111.7	5000.1	4934.0	4862.1	4800.7	4736.4	4752.5	4709.0	4640.0	4419.8
37.5°	5605.1	5719.4	5601.3	5530.4	5398.1	5278.0	5098.4	5023.8	4983.1	4919.8	4697.7
40°	6171.2	6236.5	6146.7	6086.2	5942.5	5754.4	5467.1	5309.2	5254.4	5193.0	5004.9
42.5°	6588.1	6650.5	6602.3	6560.7	6448.2	6229.8	5858.4	5660.8	5581.4	5512.4	5352.7
45°	6918.9	6965.2	6935.0	6950.1	6901.9	6690.2	6263.9	6038.0	5955.7	5871.6	5745.9
47.5°	7052.2	7101.3	7149.5	7239.3	7321.6	7165.6	6699.6	6446.3	6359.3	6273.3	6149.5
50°	7037.1	7087.2	7227.0	7418.0	7673.2	7621.2	7159.0	6881.1	6800.8	6702.5	6588.1
52.5°	6916.1	6972.8	7152.4	7470.0	7876.4	7962.4	7626.9	7330.1	7254.5	7137.2	7022.9
55°	6598.5	6632.5	6901.9	7351.8	7924.6	8200.6	8085.3	7808.3	7732.7	7569.2	7444.4
57.5°	6009.6	6058.8	6451.0	7033.3	7803.6	8362.2	8487.9	8311.2	8238.4	8003.1	7872.6
60°	5241.2	5319.6	5768.6	6498.3	7495.5	8361.3	8853.7	8805.5	8745.0	8430.3	8294.2
62.5°	4371.6	4462.3	4894.3	5742.1	6956.7	8124.0	9082.5	9219.5	9188.3	8824.4	8650.5
65°	3357.4	3419.8	3849.8	4763.8	6118.3	7614.6	9108.9	9502.2	9507.8	9124.1	8836.7
67.5°	2235.4	2415.0	2788.4	3574.8	4995.4	6781.8	8876.4	9548.5	9603.3	9227.1	8743.2
70°	1090.8	1327.1	1692.9	2323.3	3574.8	5504.9	8268.7	9168.5	9290.4	8926.5	8185.5
72.5°	452.8	529.3	728.8	1146.5	2052.0	3714.7	7047.5	8138.2	8364.1	7909.5	6882.0
75°	305.3	330.8	416.8	587.9	934.8	1831.8	5082.4	6068.2	6432.1	5973.7	4882.9
77.5°	235.4	251.4	303.4	411.2	555.8	692.8	2720.3	3657.0	3845.1	3559.6	2540.7
80°	185.3	197.5	226.8	299.6	394.2	370.5	927.2	1656.9	1765.6	1481.1	816.7
82.5°	160.7	165.4	162.6	203.2	261.8	216.5	304.4	611.5	674.9	489.6	266.5
85°	116.3	129.5	135.2	125.7	138.9	109.6	124.8	216.5	238.2	212.7	150.3
87.5°	47.3	69.9	86.0	81.3	51.0	31.2	38.8	63.3	72.8	79.4	49.2
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3	1995.3
2.5°	1997.2	2003.8	2008.6	2014.2	2018.0	2023.7	2035.0	2041.6	2042.6	2047.3	2046.4
5°	2015.2	2024.6	2035.0	2050.2	2067.2	2081.3	2103.1	2118.2	2123.9	2128.6	2127.7
7.5°	2053.9	2067.2	2086.1	2112.5	2137.1	2156.0	2182.5	2200.4	2218.4	2225.0	2226.0
10°	2111.6	2130.5	2157.9	2193.8	2220.3	2244.9	2272.3	2287.4	2305.4	2312.9	2316.7
12.5°	2183.4	2203.3	2239.2	2289.3	2313.9	2330.9	2340.3	2336.5	2340.3	2346.9	2348.8
15°	2265.7	2287.4	2328.0	2381.9	2398.9	2383.8	2363.0	2344.1	2341.3	2343.2	2349.8
17.5°	2363.0	2379.1	2426.3	2471.7	2459.4	2397.0	2351.7	2321.4	2306.3	2301.6	2308.2
20°	2499.1	2499.1	2537.9	2566.2	2484.0	2378.1	2307.2	2258.1	2226.9	2213.7	2210.8
22.5°	2664.5	2649.4	2674.0	2654.1	2479.3	2325.2	2226.9	2141.8	2094.6	2075.7	2072.8
25°	2874.4	2856.4	2849.8	2726.9	2445.2	2241.1	2081.3	1978.3	1936.7	1926.3	1928.2
27.5°	3191.0	3145.6	3059.6	2766.6	2382.9	2108.8	1911.2	1815.7	1792.1	1793.1	1795.9
30°	3612.6	3521.8	3311.1	2773.2	2280.8	1921.6	1737.3	1669.2	1657.9	1662.6	1678.7
32.5°	4002.9	3916.9	3568.2	2743.0	2123.9	1738.2	1581.3	1536.0	1518.9	1524.6	1532.2
35°	4309.2	4285.6	3806.3	2700.5	1931.1	1566.2	1441.4	1402.7	1369.6	1362.0	1367.7
37.5°	4598.4	4589.0	3985.0	2640.9	1740.1	1444.3	1329.0	1277.9	1229.7	1203.2	1204.2
40°	4916.0	4906.6	4102.2	2549.2	1570.9	1338.4	1227.8	1160.7	1101.2	1053.0	1057.7
42.5°	5273.3	5217.5	4158.0	2417.8	1427.3	1248.6	1145.6	1054.8	976.4	932.0	934.8
45°	5663.7	5538.0	4157.0	2250.5	1306.3	1166.4	1057.7	929.1	856.4	814.8	812.9
47.5°	6077.7	5844.2	4106.0	2065.3	1189.1	1075.6	921.6	823.3	775.1	749.5	743.9
50°	6504.9	6130.6	4019.0	1852.6	1069.0	972.6	836.5	769.4	732.5	708.9	700.4
52.5°	6906.6	6390.5	3914.1	1611.6	947.1	872.4	798.7	746.7	708.0	681.5	670.2
55°	7280.0	6614.5	3765.7	1364.9	847.8	805.3	780.7	737.3	692.8	661.6	649.4
57.5°	7611.7	6760.1	3509.5	1133.3	777.0	759.0	761.8	721.2	670.2	643.7	626.7
60°	7887.7	6866.9	3130.5	918.7	719.3	713.6	732.5	690.9	631.4	601.2	587.9
62.5°	8053.2	6865.0	2665.5	752.4	670.2	672.0	693.8	653.1	592.6	564.3	555.8
65°	8039.0	6696.8	2155.1	643.7	622.9	624.8	653.1	611.5	560.5	543.5	542.5
67.5°	7754.5	6286.6	1653.2	572.8	570.9	579.4	612.5	583.2	540.7	538.8	541.6
70°	6984.1	5434.9	1191.0	516.1	517.0	529.3	572.8	565.2	530.3	534.0	533.1
72.5°	5600.3	4143.8	799.6	456.5	457.5	477.3	535.0	551.1	519.9	570.0	577.5
75°	3729.8	2584.2	514.2	393.2	394.2	419.7	501.9	523.6	491.5	568.1	572.8
77.5°	1792.1	1161.7	372.4	330.8	330.8	354.5	433.8	468.8	418.7	441.4	404.5
80°	619.1	436.7	293.0	266.5	260.9	276.9	365.8	406.4	361.1	332.7	311.9
82.5°	243.9	226.8	235.4	207.0	188.1	198.5	284.5	335.5	265.6	240.1	239.1
85°	139.9	147.5	166.4	137.1	108.7	121.9	208.9	241.0	200.4	176.8	180.5
87.5°	37.8	52.0	76.6	70.9	49.2	52.0	99.2	133.3	115.3	88.8	91.7
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)