

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: P950598

Luminaire Tested: **GALN-SB5A-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950598
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-730-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23080 lumens
Efficiency: N/A
Efficacy: 162.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 141.7
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

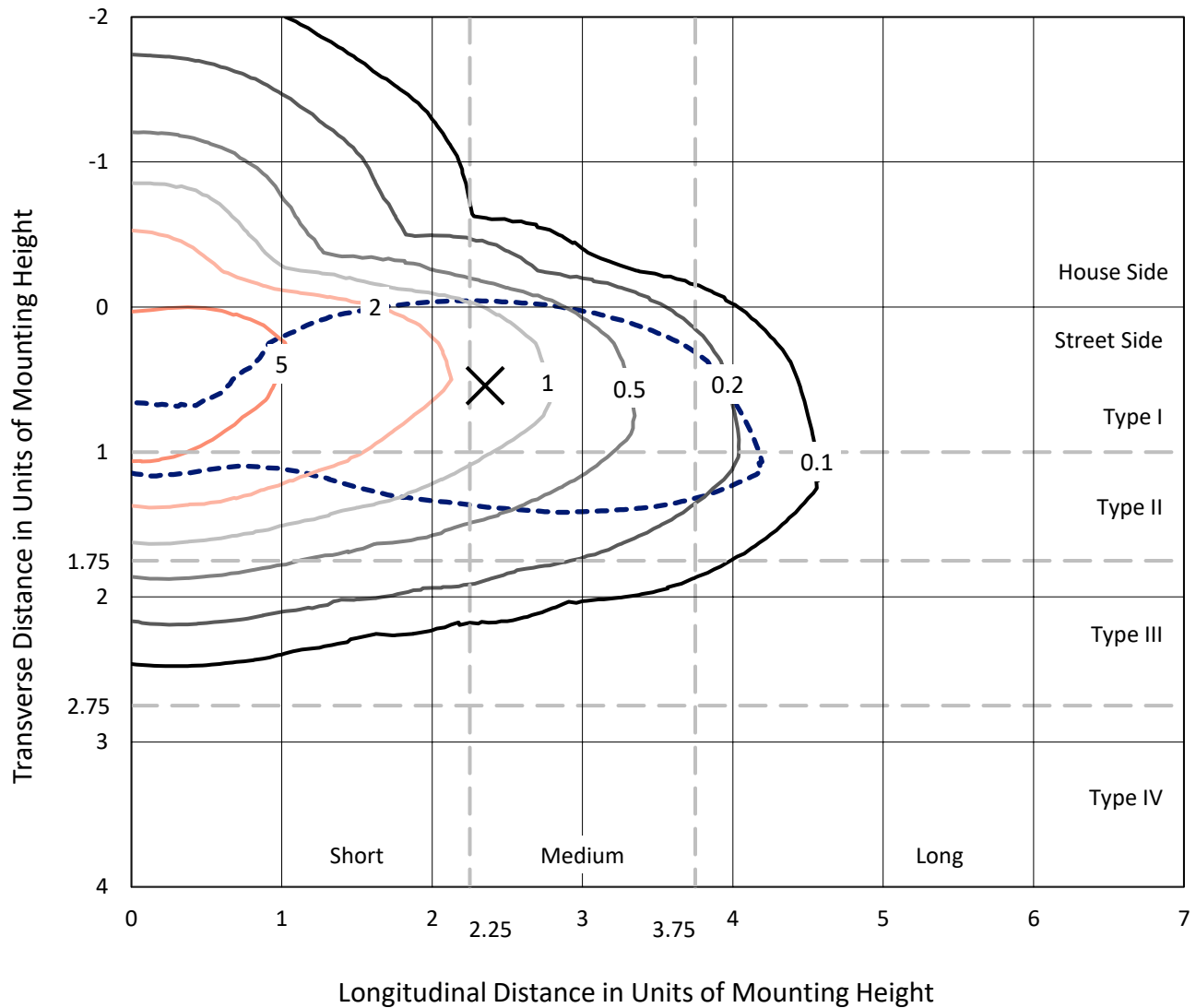


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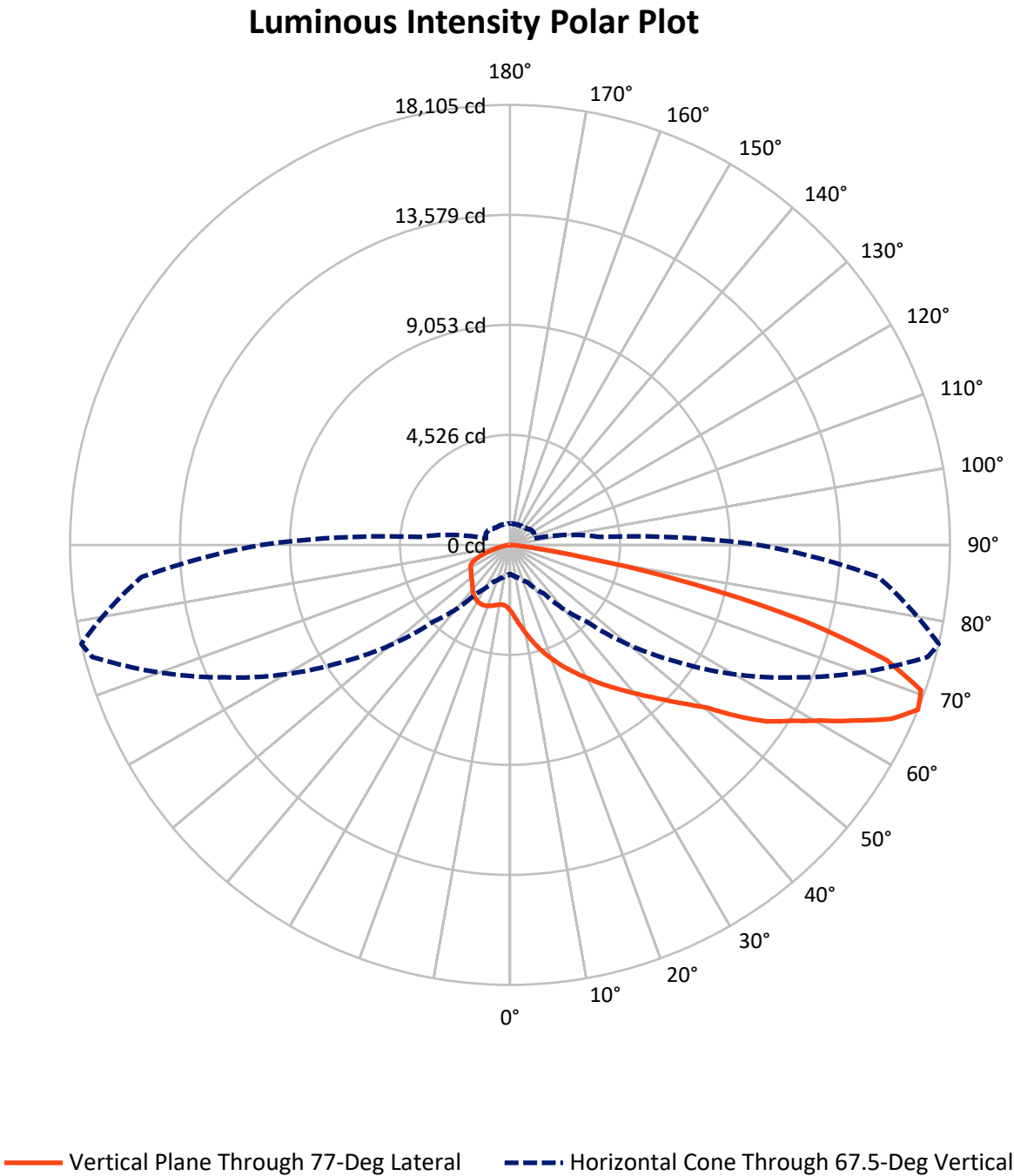
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.5 fc
Type II - Medium - N/A

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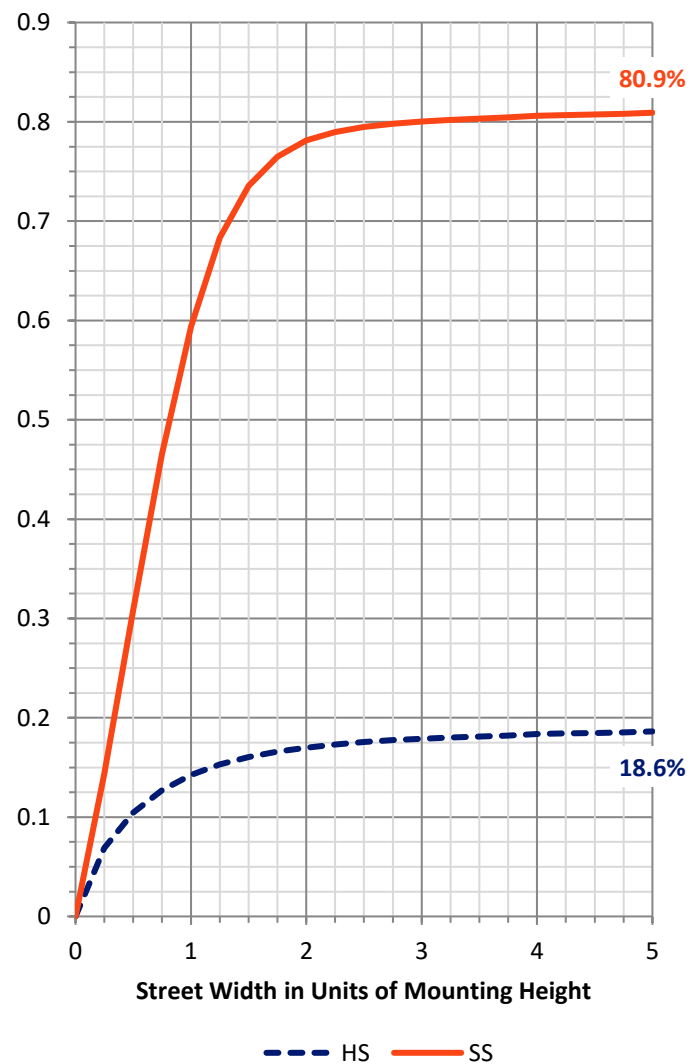
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4365.8	0.0	4365.8
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	18714.2	0.0	18714.2
	% Fixture	81.1	0.0	81.1
Total	Lumens	23080.0	0.0	23080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.3	1.3
10°-20°	1042.8	4.5
20°-30°	1968.9	8.5
30°-40°	3171.9	13.7
40°-50°	4338.5	18.8
50°-60°	4893.9	21.2
60°-70°	4567.8	19.8
70°-80°	2503.9	10.8
80°-90°	302.0	1.3
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°	23080.0	100.0
0°-180°	23080.0	100.0

Coefficient of Utilization



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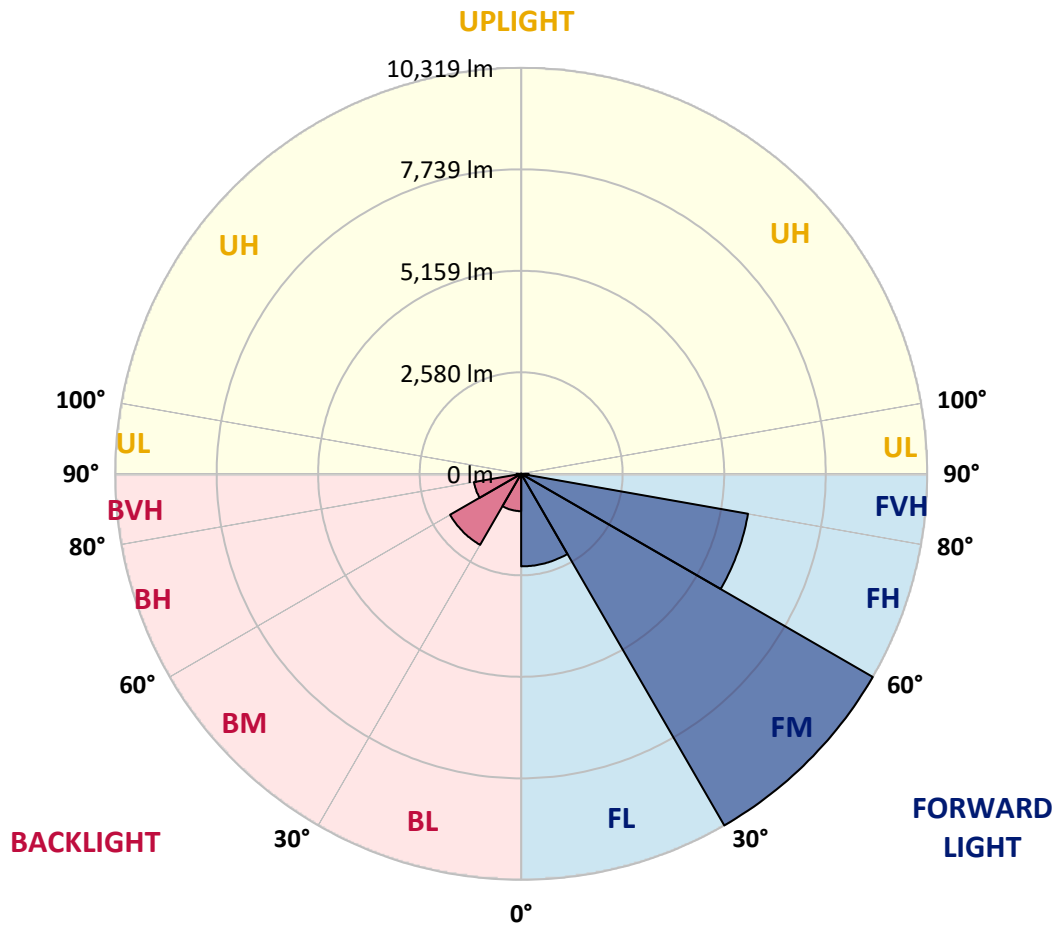
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2352.7	10.2			
FM	(30°-60°)	10318.8	44.7			
FH	(60°-80°)	5853.8	25.4			G3/7500
FVH	(80°-90°)	188.9	0.8			G2/225
BL	(0°-30°)	949.2	4.1	B2/1000		
BM	(30°-60°)	2085.4	9.0	B2/2500		
BH	(60°-80°)	1218.0	5.3	B3/2500		G3/2500
BVH	(80°-90°)	113.1	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0
2.5°	3390.7	3414.5	3384.7	3384.7	3284.6	3232.2	3132.1	3055.9	2918.9	2895.0	2804.5
5°	4007.8	4037.6	3995.9	3978.0	3860.1	3751.6	3583.7	3418.1	3173.8	3148.8	2935.6
7.5°	4485.5	4523.7	4486.7	4467.7	4362.8	4241.3	4044.7	3813.6	3469.3	3420.4	3111.9
10°	4875.1	4881.1	4869.2	4876.3	4794.1	4694.0	4492.7	4223.4	3793.3	3726.6	3325.1
12.5°	5095.5	5122.9	5146.8	5189.6	5175.3	5113.4	4932.3	4610.6	4136.5	4050.7	3557.5
15°	5199.2	5246.8	5300.4	5399.3	5479.1	5494.6	5356.4	5026.4	4485.5	4381.9	3792.2
17.5°	5236.1	5281.4	5366.0	5508.9	5680.5	5796.1	5734.1	5430.3	4831.0	4711.9	4038.8
20°	5423.2	5436.3	5487.5	5623.3	5809.2	6001.0	6047.4	5818.7	5173.0	5038.3	4293.7
22.5°	5823.5	5797.2	5811.5	5873.5	6006.9	6192.8	6298.8	6161.8	5524.4	5369.5	4551.1
25°	6484.7	6408.4	6332.2	6260.7	6328.6	6433.4	6553.8	6504.9	5892.6	5696.0	4810.8
27.5°	7319.8	7226.9	7058.9	6824.2	6742.0	6778.9	6832.5	6823.0	6233.3	6034.3	5078.8
30°	8141.9	8033.5	7833.3	7493.8	7276.9	7179.2	7138.7	7111.3	6603.8	6391.7	5349.3
32.5°	8798.3	8712.5	8516.0	8135.9	7821.4	7654.6	7520.0	7422.3	6991.0	6778.9	5635.2
35°	9372.6	9292.7	9067.6	8653.0	8311.0	8133.5	7957.2	7748.7	7393.7	7179.2	5942.6
37.5°	9896.8	9817.0	9508.4	9077.1	8732.8	8610.1	8452.8	8099.0	7797.6	7595.0	6267.8
40°	10228.0	10210.1	9921.8	9433.3	9075.9	9015.2	8962.7	8505.2	8245.5	8057.3	6625.3
42.5°	10312.6	10351.9	10123.1	9721.6	9380.9	9332.1	9454.8	8965.1	8748.3	8568.4	7030.3
45°	10108.8	10222.0	10071.9	9799.1	9597.7	9571.5	9890.8	9467.9	9304.7	9140.2	7518.8
47.5°	9593.0	9784.8	9722.8	9684.7	9656.1	9769.3	10274.4	10001.6	9934.9	9791.9	8076.3
50°	8551.7	8915.1	9023.5	9264.2	9540.6	9923.0	10623.5	10584.2	10671.2	10527.0	8755.4
52.5°	6751.5	7251.9	7881.0	8483.8	9185.5	9871.8	11007.1	11420.5	11787.5	11708.9	9834.8
55°	5573.3	5798.4	6282.1	7387.7	8496.9	9656.1	11179.9	12096.1	12895.5	12825.2	10653.3
57.5°	4667.8	4869.2	5167.0	6090.3	7455.6	9166.5	11287.1	12508.3	13654.4	13647.2	11461.1
60°	3696.8	3910.1	4215.1	4869.2	6239.2	8320.6	11263.3	12977.7	14623.0	14682.5	12446.3
62.5°	2600.8	2835.5	3173.8	3783.8	4996.6	7224.5	10777.2	13317.2	15763.1	15925.1	13631.7
65°	1709.6	1864.5	2119.5	2646.0	3723.1	5815.1	9849.1	13361.3	16983.1	17257.1	14744.5
67.5°	1198.5	1258.1	1408.2	1694.1	2454.2	4459.3	8370.6	12905.0	17796.8	18105.4	15227.0
70°	935.2	965.0	1041.3	1155.6	1541.6	2998.7	6414.4	11718.4	17622.9	17944.5	14723.0
72.5°	807.8	836.3	864.9	879.2	1034.1	1851.4	4345.0	9797.9	15984.7	16202.7	12801.4
75°	732.7	739.8	763.7	758.9	788.7	1200.9	2507.8	7138.7	12611.9	12536.9	9450.0
77.5°	615.9	625.5	664.8	658.8	700.5	820.9	1302.2	4607.1	8176.4	7666.5	5259.9
80°	521.8	526.6	569.5	562.3	608.8	594.5	664.8	2348.2	3468.1	2937.9	1516.6
82.5°	181.1	224.0	434.9	448.0	464.6	359.8	383.6	957.9	1059.1	811.3	318.1
85°	88.2	94.1	221.6	314.5	313.3	181.1	187.0	341.9	333.6	262.1	106.0
87.5°	14.3	17.9	26.2	122.7	97.7	47.7	64.3	66.7	69.1	59.6	23.8
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°	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0	2708.0
2.5°	2737.8	2678.2	2553.1	2437.6	2347.0	2260.0	2211.2	2169.5	2145.7	2140.9	2140.9
5°	2811.7	2688.9	2461.4	2269.6	2144.5	2051.6	2002.7	1971.7	1956.2	1946.7	1945.5
7.5°	2917.7	2737.8	2413.7	2195.7	2064.7	1997.9	1972.9	1968.2	1967.0	1968.2	1971.7
10°	3064.2	2817.6	2409.0	2177.8	2068.2	2031.3	2030.1	2031.3	2036.1	2037.3	2038.4
12.5°	3222.7	2899.8	2428.0	2193.3	2113.5	2093.3	2089.7	2088.5	2092.1	2094.4	2095.6
15°	3395.4	3008.2	2460.2	2226.7	2163.5	2142.1	2138.5	2131.4	2130.2	2129.0	2127.8
17.5°	3572.9	3115.5	2495.9	2262.4	2195.7	2165.9	2152.8	2136.1	2123.0	2119.5	2123.0
20°	3752.8	3221.5	2521.0	2280.3	2198.1	2156.4	2130.2	2101.6	2079.0	2065.8	2070.6
22.5°	3944.7	3332.3	2536.4	2275.5	2176.6	2119.5	2071.8	2038.4	2003.9	1981.3	1982.5
25°	4131.7	3428.8	2535.3	2250.5	2134.9	2062.3	2001.5	1958.6	1911.0	1887.1	1887.1
27.5°	4311.6	3515.8	2505.5	2206.4	2075.4	1994.4	1921.7	1870.5	1824.0	1801.4	1800.2
30°	4497.5	3588.4	2459.0	2142.1	2005.1	1915.7	1835.9	1791.8	1750.1	1728.7	1727.5
32.5°	4682.1	3655.1	2393.5	2062.3	1924.1	1838.3	1759.7	1719.2	1694.1	1694.1	1695.3
35°	4877.5	3701.6	2306.5	1969.3	1838.3	1756.1	1694.1	1670.3	1667.9	1653.6	1650.1
37.5°	5083.6	3731.4	2200.5	1874.0	1753.7	1676.3	1657.2	1628.6	1604.8	1573.8	1569.0
40°	5300.4	3761.2	2073.0	1775.2	1664.4	1621.5	1613.1	1575.0	1507.1	1430.8	1420.1
42.5°	5563.7	3781.4	1940.8	1676.3	1570.2	1555.9	1567.9	1502.3	1393.9	1336.7	1337.9
45°	5868.7	3814.8	1819.2	1578.6	1473.7	1473.7	1523.8	1438.0	1348.6	1312.9	1318.9
47.5°	6264.3	3892.2	1706.1	1471.4	1384.4	1408.2	1426.1	1360.6	1310.5	1266.4	1265.2
50°	6836.1	4078.1	1589.3	1362.9	1316.5	1364.1	1339.1	1301.0	1242.6	1206.9	1203.3
52.5°	7546.2	4187.7	1485.6	1265.2	1258.1	1305.7	1270.0	1234.3	1190.2	1142.5	1133.0
55°	8029.9	4207.9	1398.7	1193.8	1218.8	1214.0	1200.9	1168.7	1144.9	1081.8	1083.0
57.5°	8570.8	4248.5	1327.2	1150.9	1193.8	1141.3	1136.6	1109.2	1078.2	1035.3	1021.0
60°	9217.7	4311.6	1265.2	1134.2	1172.3	1093.7	1069.9	1059.1	1028.2	1006.7	1012.7
62.5°	9923.0	4368.8	1202.1	1136.6	1147.3	1047.2	1011.5	1007.9	988.8	981.7	981.7
65°	10404.3	4212.7	1123.5	1134.2	1108.0	999.6	954.3	953.1	937.6	935.2	934.0
67.5°	10236.3	3718.3	1017.4	1100.8	1067.5	951.9	901.9	897.1	876.9	878.0	878.0
70°	9395.2	3013.0	870.9	1018.6	1017.4	909.0	847.1	831.6	804.2	808.9	813.7
72.5°	7817.8	2232.6	674.3	881.6	937.6	869.7	783.9	758.9	724.4	729.1	727.9
75°	5645.9	1517.8	490.8	670.7	816.1	823.2	722.0	679.1	637.4	644.5	646.9
77.5°	2889.1	860.2	361.0	462.3	641.0	748.2	666.0	608.8	599.3	666.0	656.4
80°	942.4	431.3	250.2	324.1	420.6	612.4	583.8	518.2	515.9	531.4	456.3
82.5°	281.2	182.3	160.8	213.3	232.3	469.4	504.0	392.0	337.2	355.0	366.9
85°	96.5	88.2	91.7	106.0	110.8	275.2	352.6	259.7	245.4	270.4	266.9
87.5°	22.6	31.0	26.2	23.8	23.8	66.7	137.0	108.4	150.1	100.1	96.5
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)