

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: P941434

Luminaire Tested: **GALN-SB5A-722-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941434
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB5A-722-U-T2-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13669 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

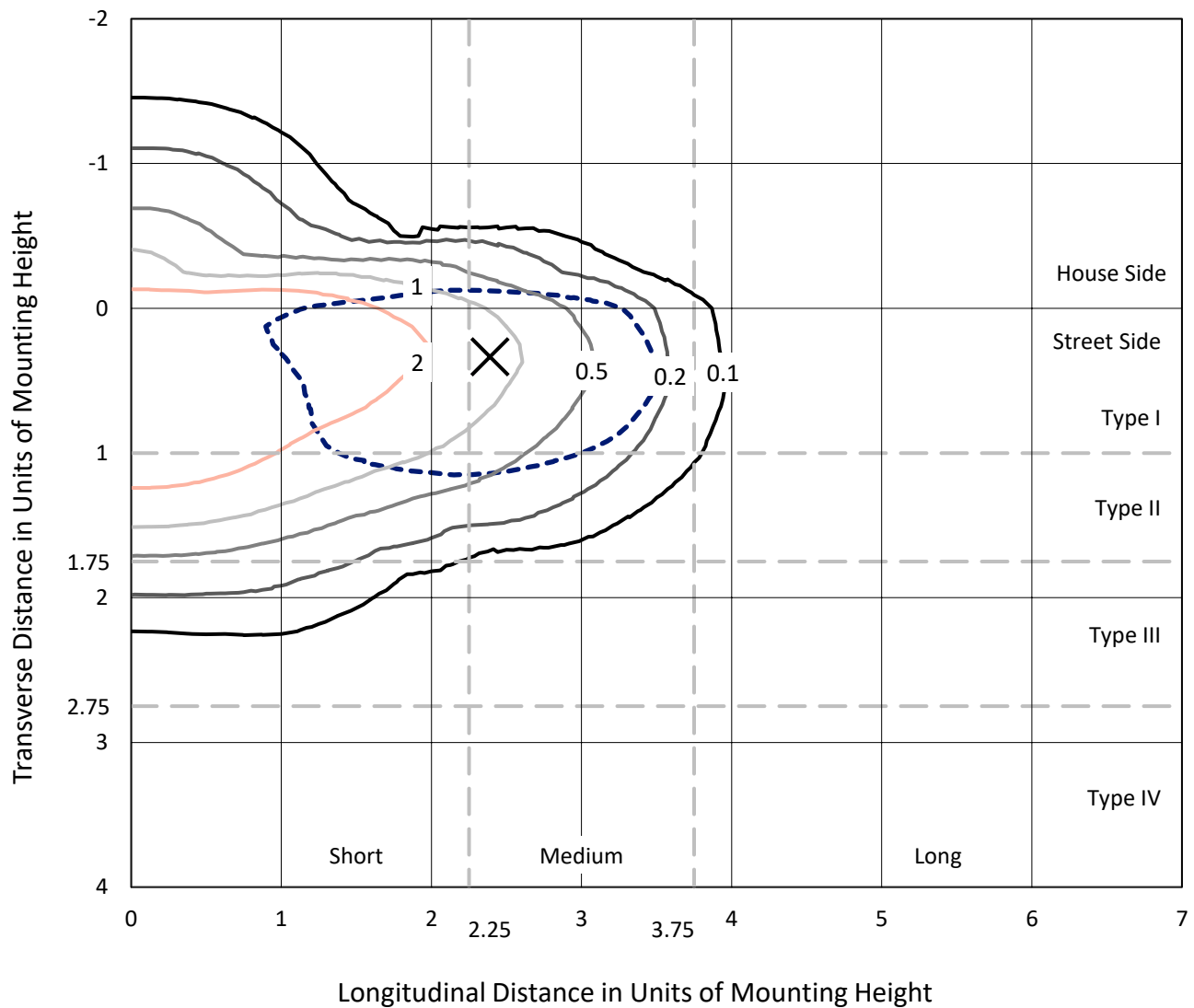


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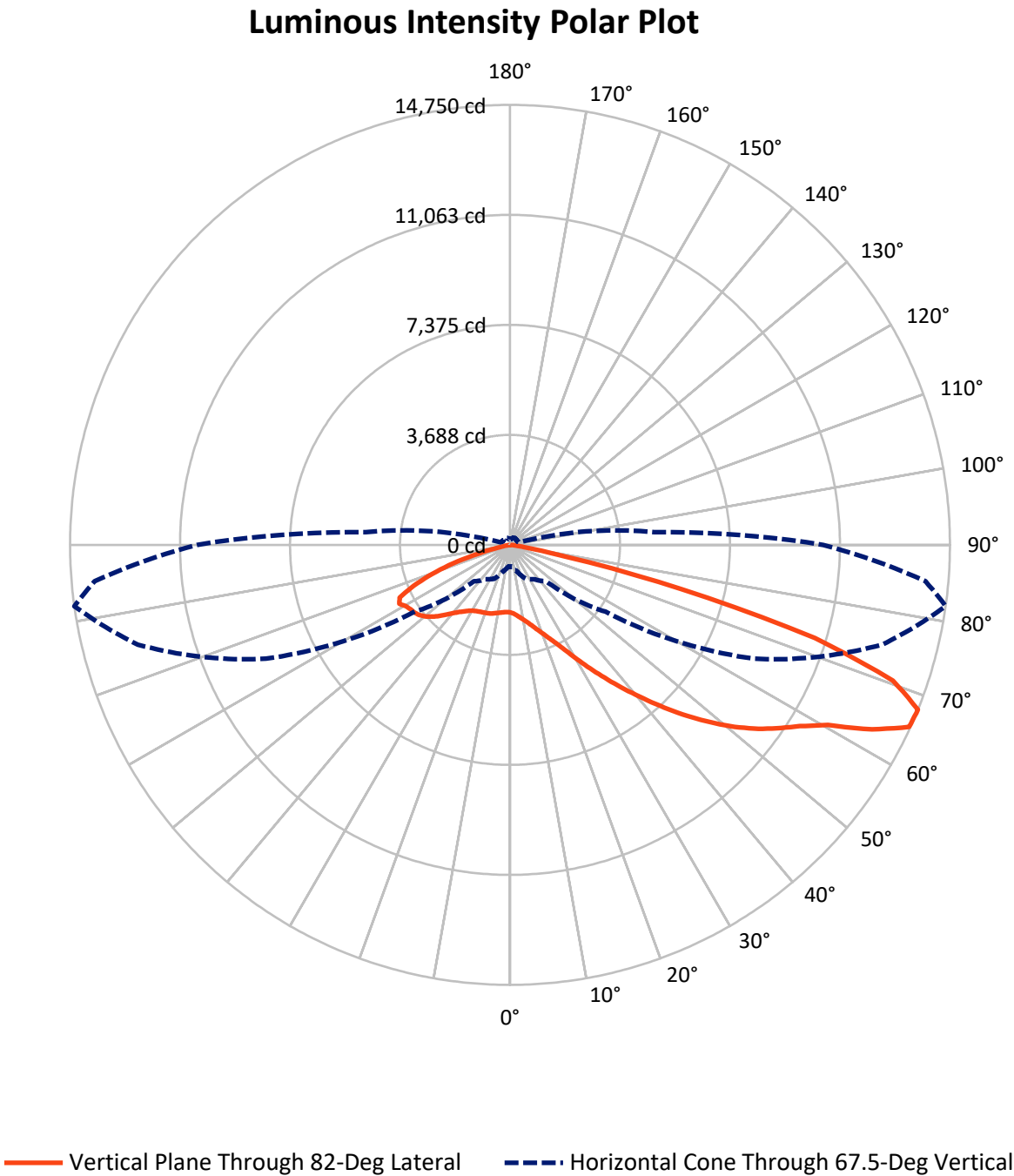
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
Type II - Medium - N/A

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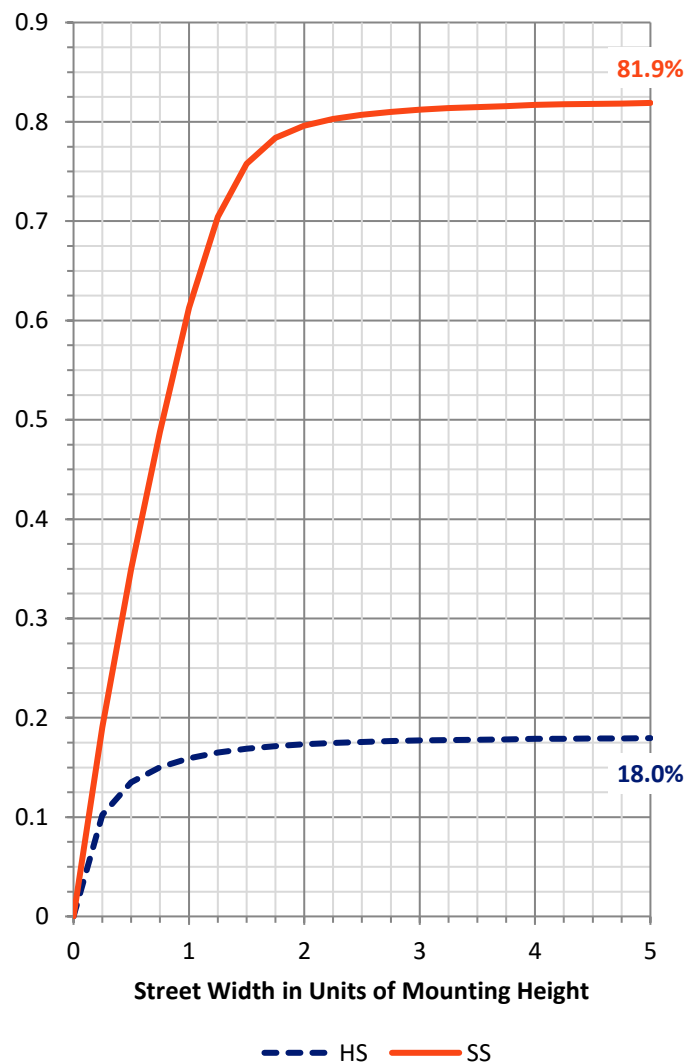
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2476.0	0.0	2476.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	11193.0	0.0	11193.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	13669.0	0.0	13669.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.8	1.5
10°-20°	524.3	3.8
20°-30°	839.7	6.1
30°-40°	1484.9	10.9
40°-50°	2601.6	19.0
50°-60°	3469.8	25.4
60°-70°	3230.2	23.6
70°-80°	1239.8	9.1
80°-90°	77.0	0.6
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°	13669.0	100.0
0°-180°	13669.0	100.0

Coefficient of Utilization



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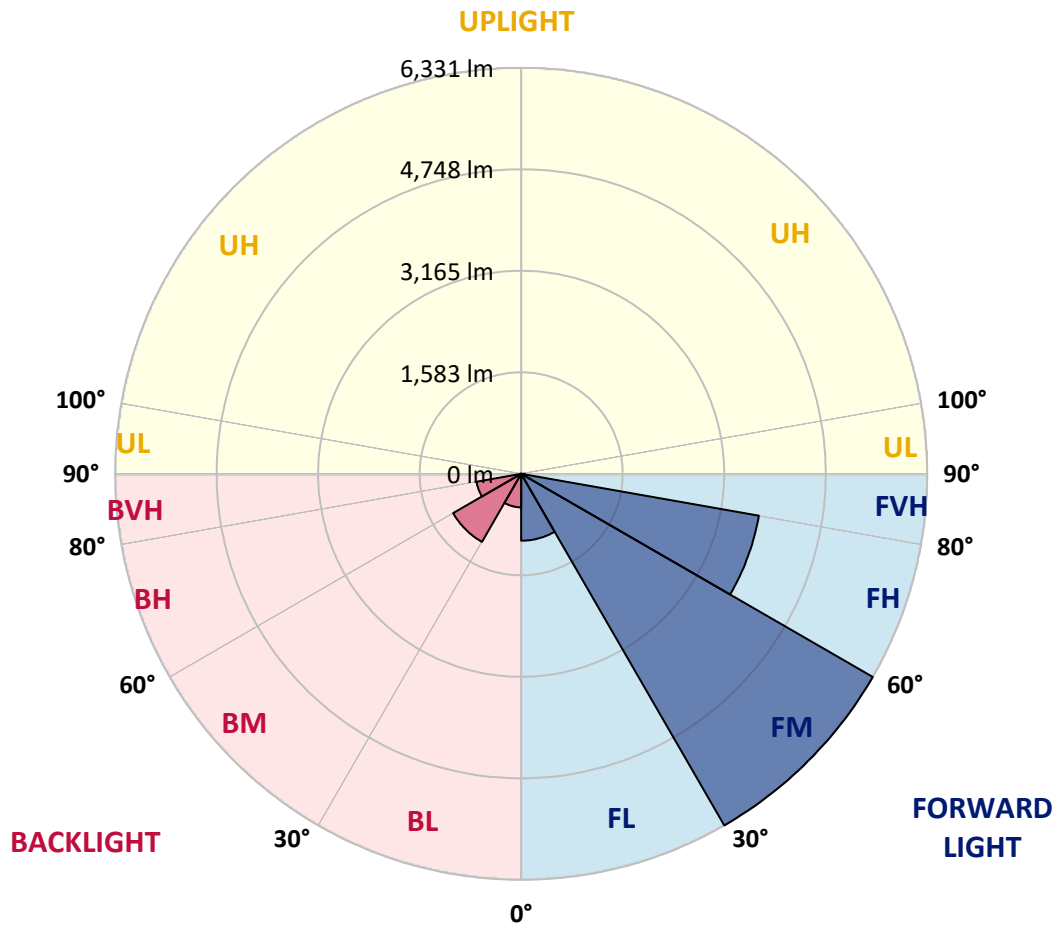
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1042.8	7.6			
FM	(30°-60°)	6330.9	46.3			
FH	(60°-80°)	3763.3	27.5			G2/5000
FVH	(80°-90°)	56.0	0.4			G1/100
BL	(0°-30°)	522.9	3.8	B2/1000		
BM	(30°-60°)	1225.4	9.0	B2/2500		
BH	(60°-80°)	706.7	5.2	B2/1000		G2/1000
BVH	(80°-90°)	21.0	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5
2.5°	2393.4	2407.2	2399.3	2395.4	2388.5	2378.7	2370.8	2346.2	2320.6	2303.9	2298.0
5°	2441.6	2455.4	2454.4	2458.4	2463.3	2466.2	2464.3	2436.7	2400.3	2371.8	2355.0
7.5°	2400.3	2416.0	2428.8	2448.5	2483.0	2519.4	2537.1	2531.2	2493.8	2454.4	2433.8
10°	2283.2	2299.9	2330.4	2376.7	2449.5	2528.2	2594.2	2624.7	2601.1	2557.8	2529.2
12.5°	2068.6	2085.4	2145.4	2245.8	2367.8	2504.6	2630.6	2712.3	2718.2	2674.9	2641.4
15°	1827.5	1844.3	1908.2	2034.2	2220.2	2439.7	2650.3	2804.8	2856.9	2819.5	2779.2
17.5°	1677.9	1692.7	1740.9	1842.3	2036.2	2309.8	2643.4	2903.2	3022.3	2992.7	2944.5
20°	1632.7	1645.5	1668.1	1739.0	1900.4	2174.9	2598.1	2995.7	3200.4	3183.7	3129.5
22.5°	1680.9	1692.7	1699.6	1731.1	1832.5	2086.4	2541.0	3090.2	3407.1	3409.0	3343.1
25°	1792.1	1803.9	1796.0	1815.7	1860.0	2058.8	2519.4	3201.4	3666.9	3688.5	3613.7
27.5°	1975.2	1976.1	1957.4	1956.5	1963.3	2100.1	2542.0	3320.5	3994.6	4034.9	3942.4
30°	2342.2	2327.5	2255.6	2177.9	2142.5	2224.1	2605.0	3461.2	4381.4	4453.2	4337.1
32.5°	2908.1	2886.5	2754.6	2568.6	2381.6	2423.9	2718.2	3621.6	4802.6	4932.5	4790.8
35°	3522.2	3516.3	3378.5	3102.0	2775.3	2708.3	2902.2	3832.2	5262.2	5468.8	5300.5
37.5°	4093.0	4090.1	4011.3	3685.6	3288.0	3104.9	3197.4	4107.8	5754.2	6053.4	5854.6
40°	4614.6	4623.5	4544.7	4253.4	3852.9	3613.7	3599.0	4448.3	6301.4	6690.1	6453.9
42.5°	5065.3	5075.2	4995.5	4779.9	4410.9	4176.7	4092.0	4865.6	6835.8	7374.1	7094.6
45°	5371.4	5432.4	5420.6	5248.4	4983.7	4740.6	4684.5	5389.1	7445.0	8099.4	7771.7
47.5°	5458.0	5514.1	5602.7	5626.3	5464.9	5225.7	5292.7	6019.9	8061.0	8825.7	8452.7
50°	5244.4	5296.6	5480.6	5725.7	5837.9	5764.1	5884.1	6696.0	8691.9	9550.0	9120.9
52.5°	4823.2	4876.4	5108.6	5496.4	5954.0	6186.3	6477.6	7362.3	9303.0	10236.0	9753.7
55°	4214.1	4270.2	4568.3	5007.3	5732.6	6360.5	6972.6	8027.6	9863.0	10853.0	10324.5
57.5°	3385.4	3426.8	3736.8	4350.9	5175.6	6187.2	7337.7	8753.9	10390.5	11459.2	10890.4
60°	2206.4	2242.8	2603.0	3288.0	4252.4	5608.6	7410.5	9563.8	11091.2	12247.5	11653.1
62.5°	1467.3	1491.9	1705.5	2208.4	2994.7	4497.5	6984.4	10210.4	12118.6	13619.4	12961.0
65°	1006.8	1031.4	1244.9	1595.3	1934.8	2975.0	5759.1	10124.8	13049.6	14708.9	13930.4
67.5°	718.4	739.1	920.2	1250.8	1400.4	1728.1	3904.1	9030.4	12915.8	14750.2	13982.6
70°	514.7	526.5	676.1	974.3	1113.1	1038.3	2171.0	6906.6	11308.7	13620.4	12917.7
72.5°	360.2	364.1	469.4	742.0	896.5	757.8	1033.3	4604.8	8553.1	10690.6	10014.5
75°	244.1	249.0	315.9	544.2	719.4	578.7	547.2	2469.2	5021.0	5917.6	5304.5
77.5°	149.6	151.6	203.7	372.0	538.3	440.9	352.3	1046.1	1942.7	1907.3	1625.8
80°	84.6	84.6	129.9	231.3	367.1	284.4	247.0	444.8	615.1	540.3	476.3
82.5°	47.2	48.2	94.5	143.7	243.1	168.3	135.8	205.7	265.7	235.2	204.7
85°	19.7	21.7	58.1	67.9	116.1	83.7	55.1	86.6	98.4	87.6	64.0
87.5°	2.0	3.0	17.7	12.8	13.8	16.7	7.9	16.7	13.8	13.8	9.8
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°	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5	2264.5
2.5°	2279.3	2264.5	2227.1	2183.8	2126.7	2099.2	2061.8	2036.2	2014.5	2016.5	1996.8
5°	2323.5	2286.1	2202.5	2098.2	1968.3	1875.8	1777.3	1709.4	1654.3	1642.5	1615.9
7.5°	2384.6	2325.5	2178.9	1990.9	1771.4	1605.1	1456.5	1361.1	1293.2	1271.5	1249.8
10°	2463.3	2377.7	2148.4	1856.1	1540.2	1328.6	1169.2	1094.4	1048.1	1032.4	1020.5
12.5°	2554.8	2437.7	2108.0	1691.7	1302.0	1098.3	996.9	959.5	944.8	939.8	936.9
15°	2670.0	2512.5	2047.0	1496.9	1100.3	957.6	914.3	909.3	911.3	909.3	908.4
17.5°	2806.7	2594.2	1947.6	1296.1	964.5	885.7	870.0	873.9	878.8	877.8	875.9
20°	2956.3	2674.9	1820.6	1118.0	871.9	834.5	825.7	829.6	833.6	831.6	830.6
22.5°	3126.6	2761.5	1679.9	979.2	809.9	787.3	777.5	778.4	778.4	774.5	772.5
25°	3330.3	2856.9	1532.3	880.8	762.7	745.0	733.2	729.2	723.3	711.5	709.6
27.5°	3573.4	2958.3	1390.6	811.9	725.3	708.6	694.8	685.0	670.2	650.5	648.5
30°	3847.0	3081.3	1270.5	768.6	695.8	679.1	663.3	648.5	626.9	602.3	600.3
32.5°	4168.8	3213.2	1182.9	740.1	669.2	651.5	632.8	615.1	591.5	566.9	567.8
35°	4552.6	3372.6	1131.8	720.4	648.5	624.9	604.3	584.6	566.9	545.2	543.2
37.5°	4968.9	3541.9	1116.0	710.5	634.8	598.4	574.7	561.0	559.0	546.2	545.2
40°	5424.5	3742.7	1127.8	704.6	620.0	572.8	547.2	544.2	549.1	526.5	527.5
42.5°	5906.8	3980.8	1147.5	697.8	599.3	547.2	522.6	522.6	518.6	487.1	487.1
45°	6428.4	4255.4	1167.2	681.0	574.7	521.6	502.9	496.0	479.3	448.8	447.8
47.5°	6953.9	4534.9	1181.9	650.5	545.2	499.9	483.2	467.5	442.9	415.3	414.3
50°	7452.8	4785.8	1166.2	605.2	511.7	479.3	461.6	439.9	413.3	394.6	391.7
52.5°	7898.7	5003.3	1099.3	552.1	476.3	457.6	441.9	419.2	397.6	377.9	375.9
55°	8286.4	5179.5	981.2	501.9	444.8	438.9	423.2	394.6	365.1	348.4	346.4
57.5°	8658.4	5313.3	833.6	460.6	416.3	418.3	394.6	369.0	341.5	323.8	321.8
60°	9153.4	5492.4	684.0	422.2	385.8	391.7	366.1	347.4	313.0	290.3	287.4
62.5°	9944.7	5771.0	543.2	375.0	350.4	352.3	341.5	318.9	277.5	251.0	249.0
65°	10572.5	5668.6	428.1	323.8	310.0	313.0	313.0	288.4	244.1	213.6	210.6
67.5°	10501.7	4853.7	341.5	273.6	271.6	273.6	280.5	259.8	216.5	191.9	188.0
70°	9674.0	3860.8	273.6	227.3	236.2	231.3	251.0	237.2	194.9	170.3	167.3
72.5°	7893.7	2781.2	208.6	188.0	181.1	189.0	226.4	213.6	162.4	134.8	131.9
75°	4612.6	1484.1	155.5	148.6	130.9	157.5	200.8	182.1	124.0	99.4	96.4
77.5°	1501.8	517.7	114.2	109.2	97.4	127.0	171.2	153.5	101.4	78.7	75.8
80°	402.5	156.5	77.7	71.8	63.0	94.5	135.8	122.0	72.8	51.2	50.2
82.5°	161.4	65.9	45.3	40.3	34.4	65.0	107.3	98.4	54.1	32.5	32.5
85°	52.2	21.7	16.7	12.8	15.7	40.3	64.0	66.9	38.4	16.7	12.8
87.5°	6.9	3.0	3.0	3.9	3.0	6.9	19.7	18.7	10.8	2.0	0.0
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)