

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: P949527

Luminaire Tested: **GALN-SB4B-730-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949527
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-SB4B-730-U-T2R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22987 lumens
Efficiency: N/A
Efficacy: 156.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 147
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

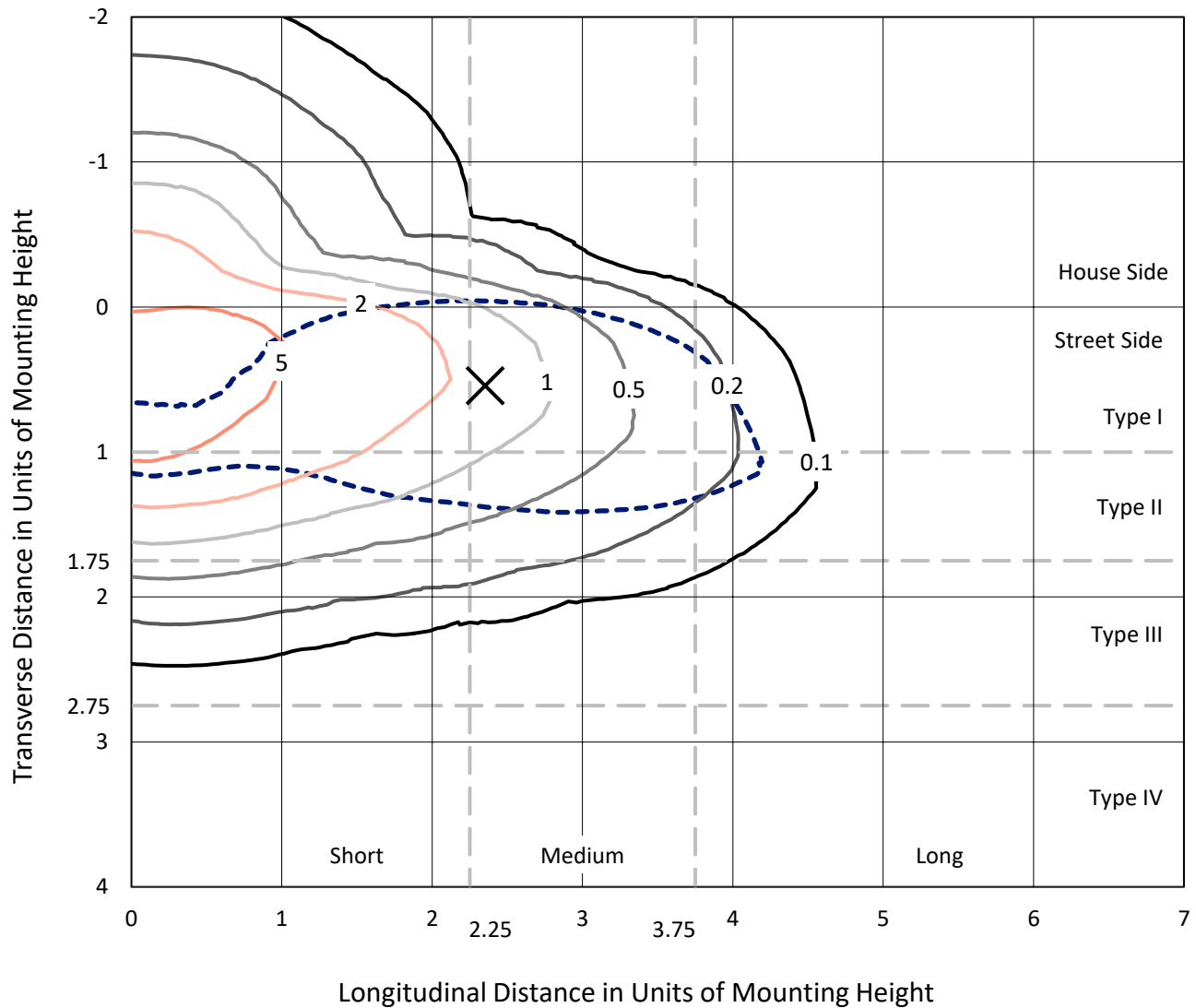


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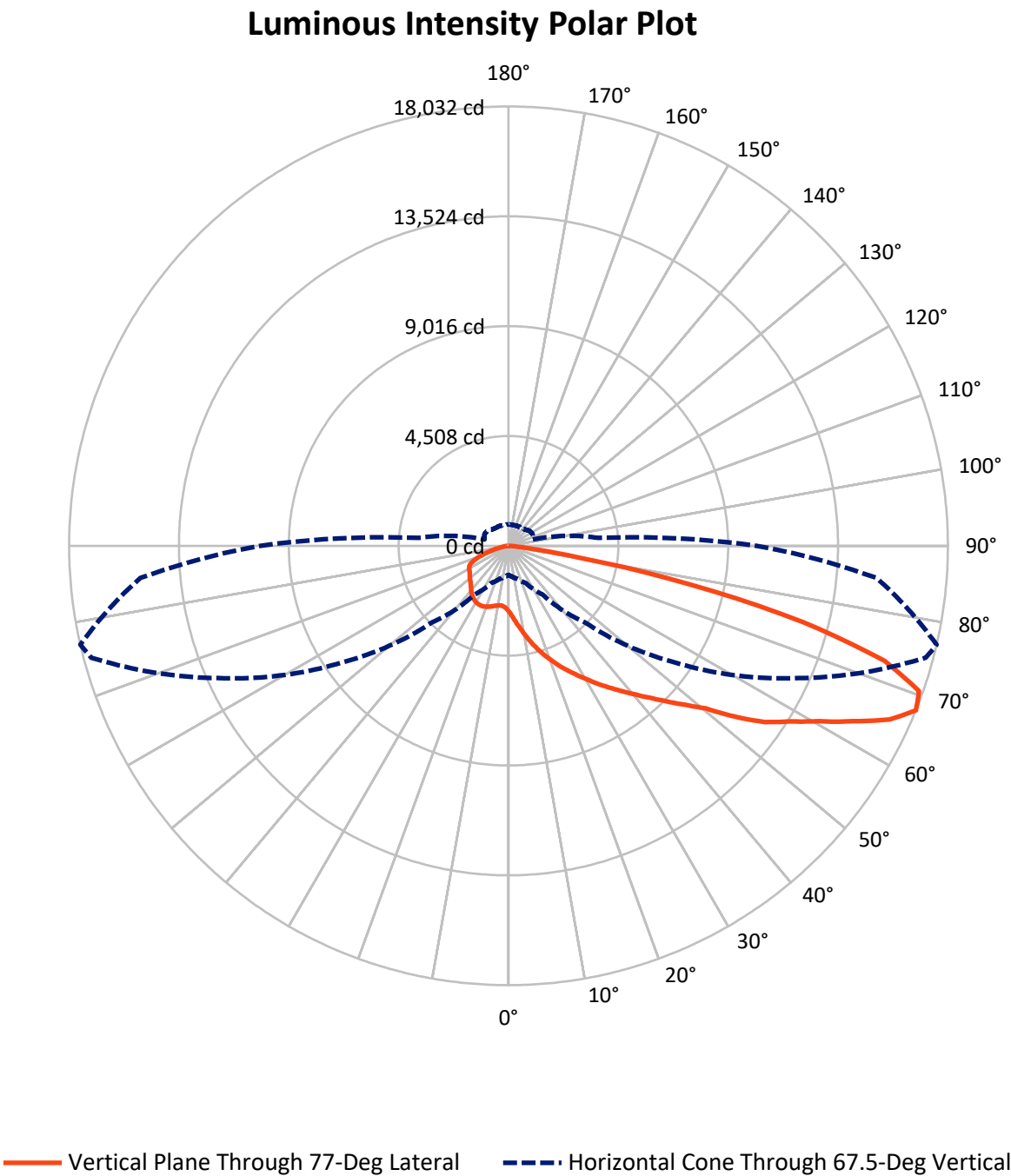
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

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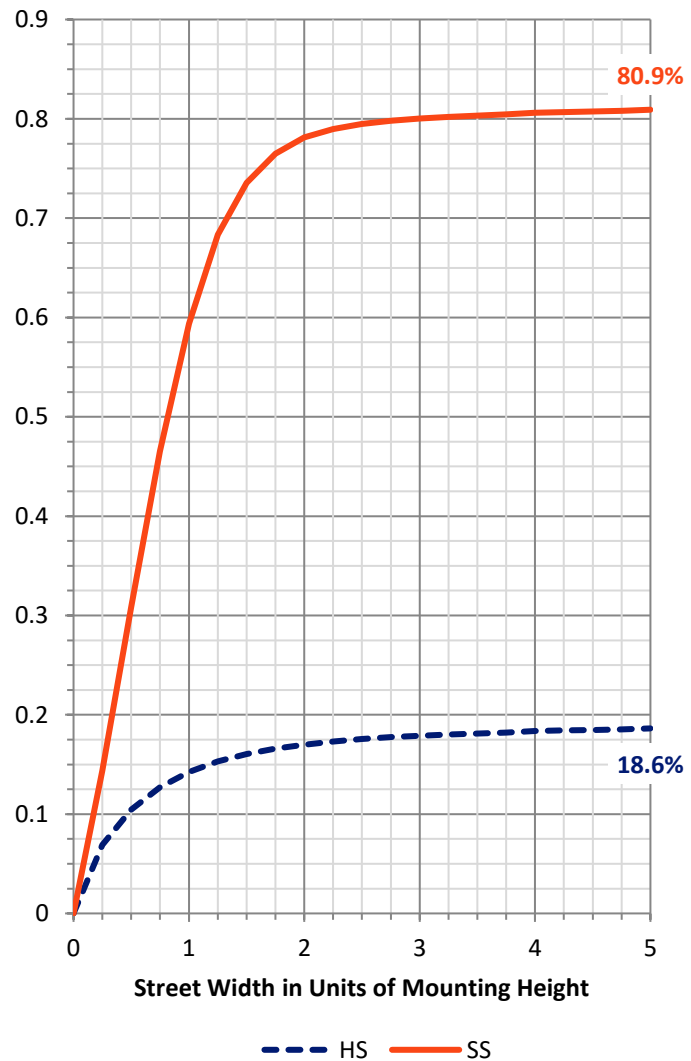
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4348.2	0.0	4348.2
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	18638.8	0.0	18638.8
	% Fixture	81.1	0.0	81.1
Total	Lumens	22987.0	0.0	22987.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.1	1.3
10°-20°	1038.6	4.5
20°-30°	1961.0	8.5
30°-40°	3159.1	13.7
40°-50°	4321.0	18.8
50°-60°	4874.2	21.2
60°-70°	4549.4	19.8
70°-80°	2493.8	10.8
80°-90°	300.8	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°	22987.0	100.0
0°-180°	22987.0	100.0

Coefficient of Utilization



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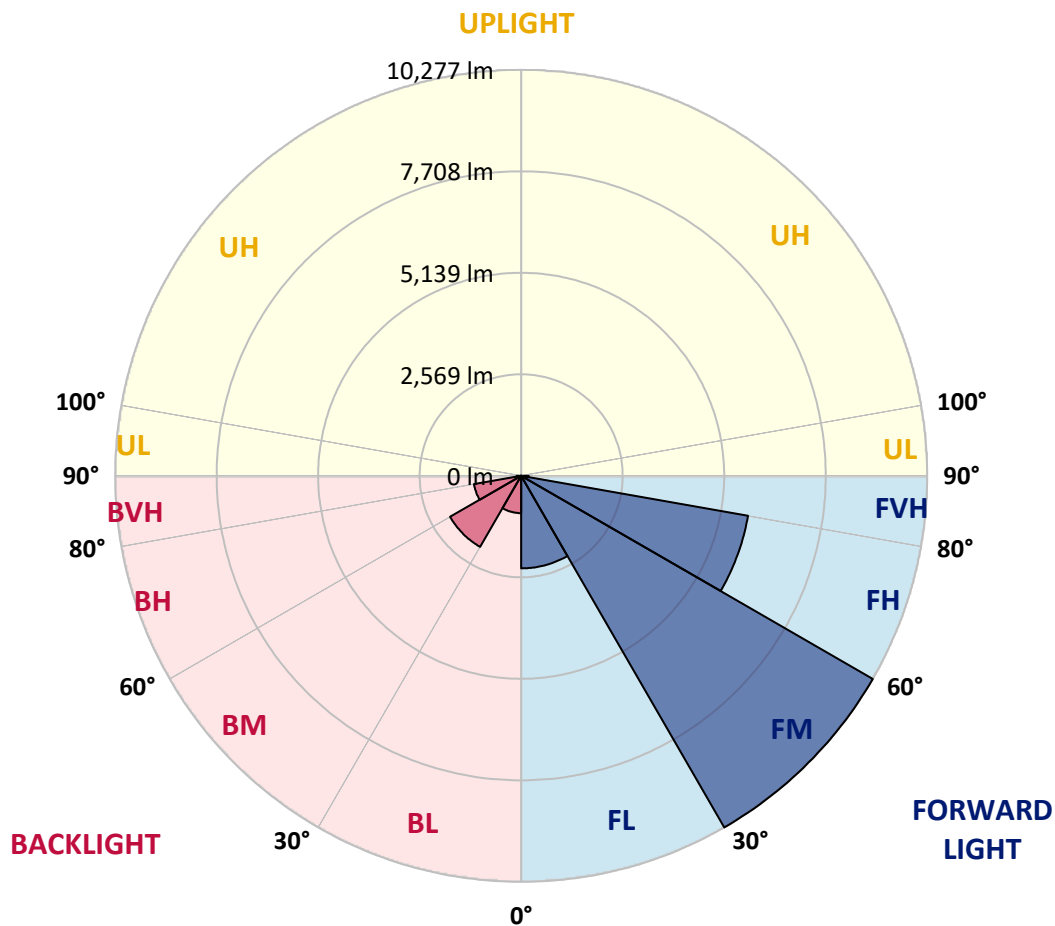
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2343.2	10.2			
FM	(30°-60°)	10277.2	44.7			
FH	(60°-80°)	5830.2	25.4			G3/7500
FVH	(80°-90°)	188.1	0.8			G2/225
BL	(0°-30°)	945.4	4.1	B2/1000		
BM	(30°-60°)	2077.0	9.0	B2/2500		
BH	(60°-80°)	1213.1	5.3	B3/2500		G3/2500
BVH	(80°-90°)	112.7	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1
2.5°	3377.0	3400.7	3371.1	3371.1	3271.4	3219.2	3119.5	3043.6	2907.1	2883.4	2793.2
5°	3991.6	4021.3	3979.8	3962.0	3844.5	3736.5	3569.2	3404.3	3161.0	3136.1	2923.7
7.5°	4467.5	4505.4	4468.6	4449.7	4345.2	4224.2	4028.4	3798.2	3455.3	3406.7	3099.3
10°	4855.5	4861.4	4849.5	4856.7	4774.8	4675.1	4474.6	4206.4	3778.1	3711.6	3311.7
12.5°	5075.0	5102.3	5126.0	5168.7	5154.5	5092.8	4912.4	4592.1	4119.8	4034.4	3543.1
15°	5178.2	5225.7	5279.1	5377.6	5457.1	5472.5	5334.8	5006.2	4467.5	4364.2	3776.9
17.5°	5215.0	5260.1	5344.3	5486.7	5657.6	5772.7	5711.0	5408.4	4811.6	4692.9	4022.5
20°	5401.3	5414.4	5465.4	5600.6	5785.7	5976.8	6023.1	5795.2	5152.1	5018.0	4276.4
22.5°	5800.0	5773.9	5788.1	5849.8	5982.7	6167.8	6273.4	6137.0	5502.2	5347.9	4532.7
25°	6458.5	6382.6	6306.7	6235.5	6303.1	6407.5	6527.4	6478.7	5868.8	5673.0	4791.4
27.5°	7290.3	7197.8	7030.5	6796.7	6714.8	6751.6	6805.0	6795.5	6208.2	6010.0	5058.4
30°	8109.1	8001.1	7801.7	7463.6	7247.6	7150.3	7110.0	7082.7	6577.2	6366.0	5327.7
32.5°	8762.9	8677.4	8481.7	8103.1	7789.9	7623.8	7489.7	7392.4	6962.8	6751.6	5612.5
35°	9334.8	9255.3	9031.0	8618.1	8277.6	8100.8	7925.1	7717.5	7363.9	7150.3	5918.6
37.5°	9856.9	9777.4	9470.1	9040.5	8697.6	8575.4	8418.8	8066.3	7766.1	7564.4	6242.6
40°	10186.8	10169.0	9881.8	9395.3	9039.3	8978.8	8926.6	8471.0	8212.3	8024.8	6598.6
42.5°	10271.0	10310.2	10082.3	9682.5	9343.1	9294.5	9416.7	8929.0	8713.0	8533.9	7002.0
45°	10068.1	10180.8	10031.3	9759.6	9559.1	9533.0	9851.0	9429.7	9267.2	9103.4	7488.5
47.5°	9554.3	9745.4	9683.7	9645.7	9617.2	9729.9	10233.0	9961.3	9894.9	9752.5	8043.8
50°	8517.2	8879.2	8987.1	9226.8	9502.1	9883.0	10580.7	10541.5	10628.2	10484.6	8720.2
52.5°	6724.3	7222.7	7849.2	8449.6	9148.5	9832.0	10962.8	11374.5	11740.0	11661.7	9795.2
55°	5550.8	5775.1	6256.8	7358.0	8462.7	9617.2	11134.8	12047.3	12843.5	12773.5	10610.4
57.5°	4649.0	4849.5	5146.2	6065.8	7425.6	9129.5	11241.6	12457.9	13599.4	13592.2	11414.9
60°	3681.9	3894.3	4198.1	4849.5	6214.1	8287.1	11217.9	12925.4	14564.0	14623.4	12396.2
62.5°	2590.3	2824.1	3161.0	3768.6	4976.5	7195.4	10733.8	13263.6	15699.6	15861.0	13576.8
65°	1702.7	1857.0	2110.9	2635.4	3708.1	5791.7	9809.4	13307.5	16914.7	17187.6	14685.1
67.5°	1193.7	1253.0	1402.5	1687.3	2444.3	4441.4	8336.9	12853.0	17725.1	18032.4	15165.6
70°	931.5	961.1	1037.1	1151.0	1535.4	2986.6	6388.5	11671.2	17551.8	17872.2	14663.7
72.5°	804.5	833.0	861.5	875.7	1029.9	1843.9	4327.4	9758.4	15920.3	16137.4	12749.8
75°	729.7	736.9	760.6	755.8	785.5	1196.1	2497.7	7110.0	12561.1	12486.3	9411.9
77.5°	613.5	623.0	662.1	656.2	697.7	817.6	1296.9	4588.5	8143.5	7635.6	5238.7
80°	519.7	524.5	567.2	560.1	606.3	592.1	662.1	2338.7	3454.1	2926.1	1510.5
82.5°	180.4	223.1	433.1	446.2	462.8	358.3	382.1	954.0	1054.9	808.1	316.8
85°	87.8	93.7	220.7	313.3	312.1	180.4	186.3	340.5	332.2	261.0	105.6
87.5°	14.2	17.8	26.1	122.2	97.3	47.5	64.1	66.4	68.8	59.3	23.7
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°	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1	2697.1
2.5°	2726.8	2667.4	2542.8	2427.7	2337.6	2250.9	2202.3	2160.8	2137.0	2132.3	2132.3
5°	2800.3	2678.1	2451.5	2260.4	2135.8	2043.3	1994.6	1963.8	1948.4	1938.9	1937.7
7.5°	2905.9	2726.8	2404.0	2186.9	2056.3	1989.9	1965.0	1960.2	1959.0	1960.2	1963.8
10°	3051.9	2806.3	2399.3	2169.1	2059.9	2023.1	2021.9	2023.1	2027.9	2029.0	2030.2
12.5°	3209.7	2888.1	2418.2	2184.5	2105.0	2084.8	2081.3	2080.1	2083.6	2086.0	2087.2
15°	3381.7	2996.1	2450.3	2217.7	2154.8	2133.5	2129.9	2122.8	2121.6	2120.4	2119.2
17.5°	3558.5	3102.9	2485.9	2253.3	2186.9	2157.2	2144.1	2127.5	2114.5	2110.9	2114.5
20°	3737.7	3208.5	2510.8	2271.1	2189.2	2147.7	2121.6	2093.1	2070.6	2057.5	2062.3
22.5°	3928.8	3318.9	2526.2	2266.4	2167.9	2110.9	2063.5	2030.2	1995.8	1973.3	1974.5
25°	4115.0	3415.0	2525.0	2241.4	2126.3	2054.0	1993.4	1950.7	1903.3	1879.5	1879.5
27.5°	4294.2	3501.6	2495.4	2197.5	2067.0	1986.3	1913.9	1862.9	1816.6	1794.1	1792.9
30°	4479.3	3574.0	2449.1	2133.5	1997.0	1908.0	1828.5	1784.6	1743.1	1721.7	1720.5
32.5°	4663.2	3640.4	2383.8	2054.0	1916.3	1830.9	1752.6	1712.2	1687.3	1687.3	1688.5
35°	4857.8	3686.7	2297.2	1961.4	1830.9	1749.0	1687.3	1663.6	1661.2	1647.0	1643.4
37.5°	5063.1	3716.4	2191.6	1866.5	1746.6	1669.5	1650.5	1622.1	1598.3	1567.5	1562.7
40°	5279.1	3746.0	2064.6	1768.0	1657.6	1614.9	1606.6	1568.7	1501.0	1425.1	1414.4
42.5°	5541.3	3766.2	1932.9	1669.5	1563.9	1549.7	1561.5	1496.3	1388.3	1331.3	1332.5
45°	5845.1	3799.4	1811.9	1572.2	1467.8	1467.8	1517.6	1432.2	1343.2	1307.6	1313.5
47.5°	6239.0	3876.5	1699.2	1465.4	1378.8	1402.5	1420.3	1355.1	1305.2	1261.3	1260.1
50°	6808.6	4061.7	1582.9	1357.4	1311.2	1358.6	1333.7	1295.7	1237.6	1202.0	1198.4
52.5°	7515.8	4170.8	1479.7	1260.1	1253.0	1300.5	1264.9	1229.3	1185.4	1137.9	1128.4
55°	7997.5	4191.0	1393.0	1189.0	1213.9	1209.1	1196.1	1164.0	1140.3	1077.4	1078.6
57.5°	8536.2	4231.3	1321.8	1146.2	1189.0	1136.7	1132.0	1104.7	1073.9	1031.1	1016.9
60°	9180.5	4294.2	1260.1	1129.6	1167.6	1089.3	1065.5	1054.9	1024.0	1002.7	1008.6
62.5°	9883.0	4351.2	1197.3	1132.0	1142.7	1043.0	1007.4	1003.8	984.9	977.7	977.7
65°	10362.4	4195.7	1118.9	1129.6	1103.5	995.5	950.4	949.3	933.8	931.5	930.3
67.5°	10195.1	3703.3	1013.3	1096.4	1063.2	948.1	898.2	893.5	873.3	874.5	874.5
70°	9357.3	3000.9	867.4	1014.5	1013.3	905.4	843.7	828.2	800.9	805.7	810.4
72.5°	7786.3	2223.6	671.6	878.1	933.8	866.2	780.8	755.8	721.4	726.2	725.0
75°	5623.2	1511.7	488.9	668.0	812.8	819.9	719.1	676.3	634.8	641.9	644.3
77.5°	2877.4	856.7	359.5	460.4	638.4	745.2	663.3	606.3	596.8	663.3	653.8
80°	938.6	429.5	249.2	322.7	418.9	609.9	581.4	516.2	513.8	529.2	454.5
82.5°	280.0	181.5	160.2	212.4	231.4	467.5	501.9	390.4	335.8	353.6	365.5
85°	96.1	87.8	91.4	105.6	110.4	274.1	351.2	258.7	244.4	269.4	265.8
87.5°	22.5	30.9	26.1	23.7	23.7	66.4	136.5	108.0	149.5	99.7	96.1
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)