

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: P949477

Luminaire Tested: **GALN-SB4B-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P949477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4B-722-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18530 lumens
Efficiency: N/A
Efficacy: 126.1 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

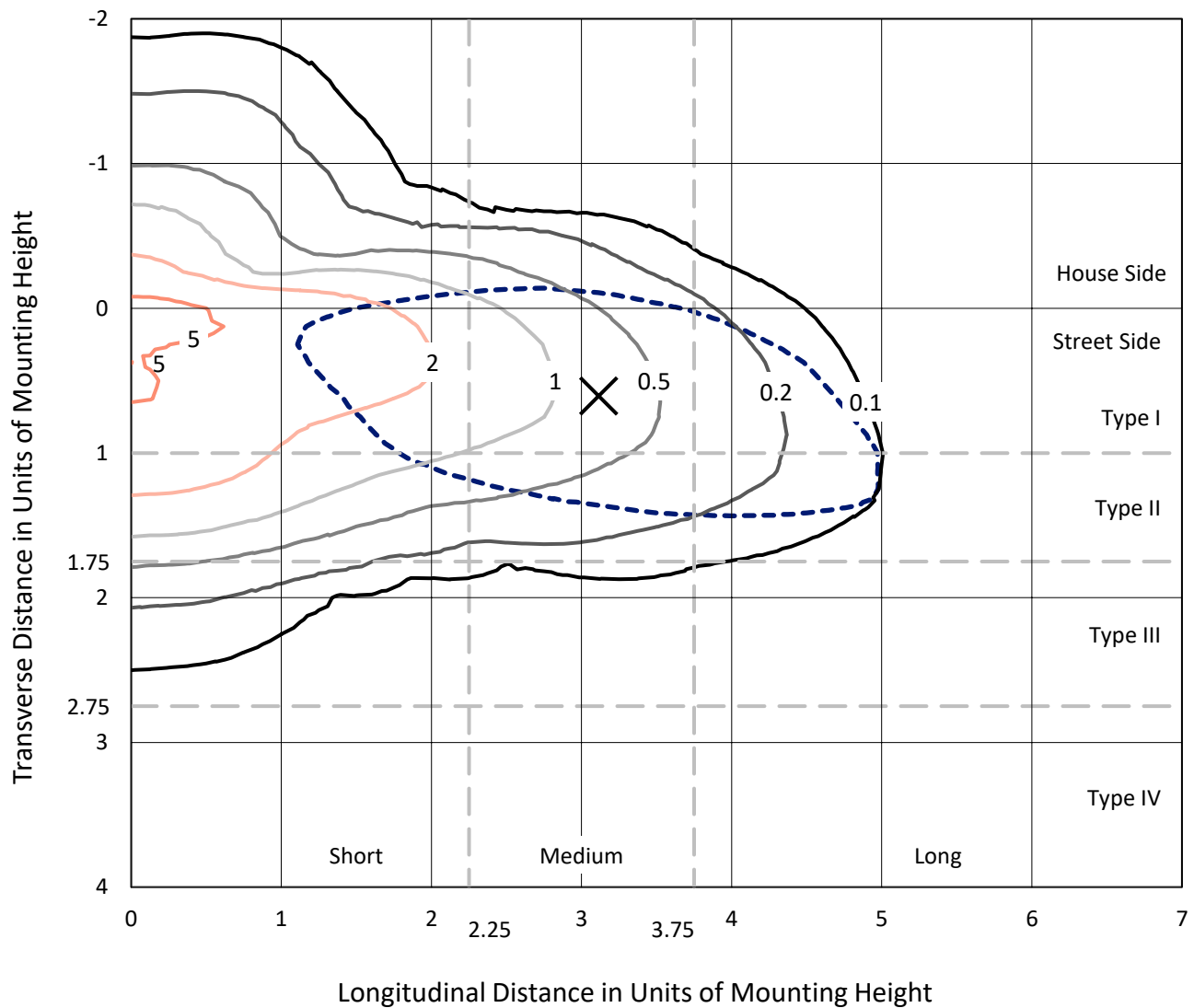


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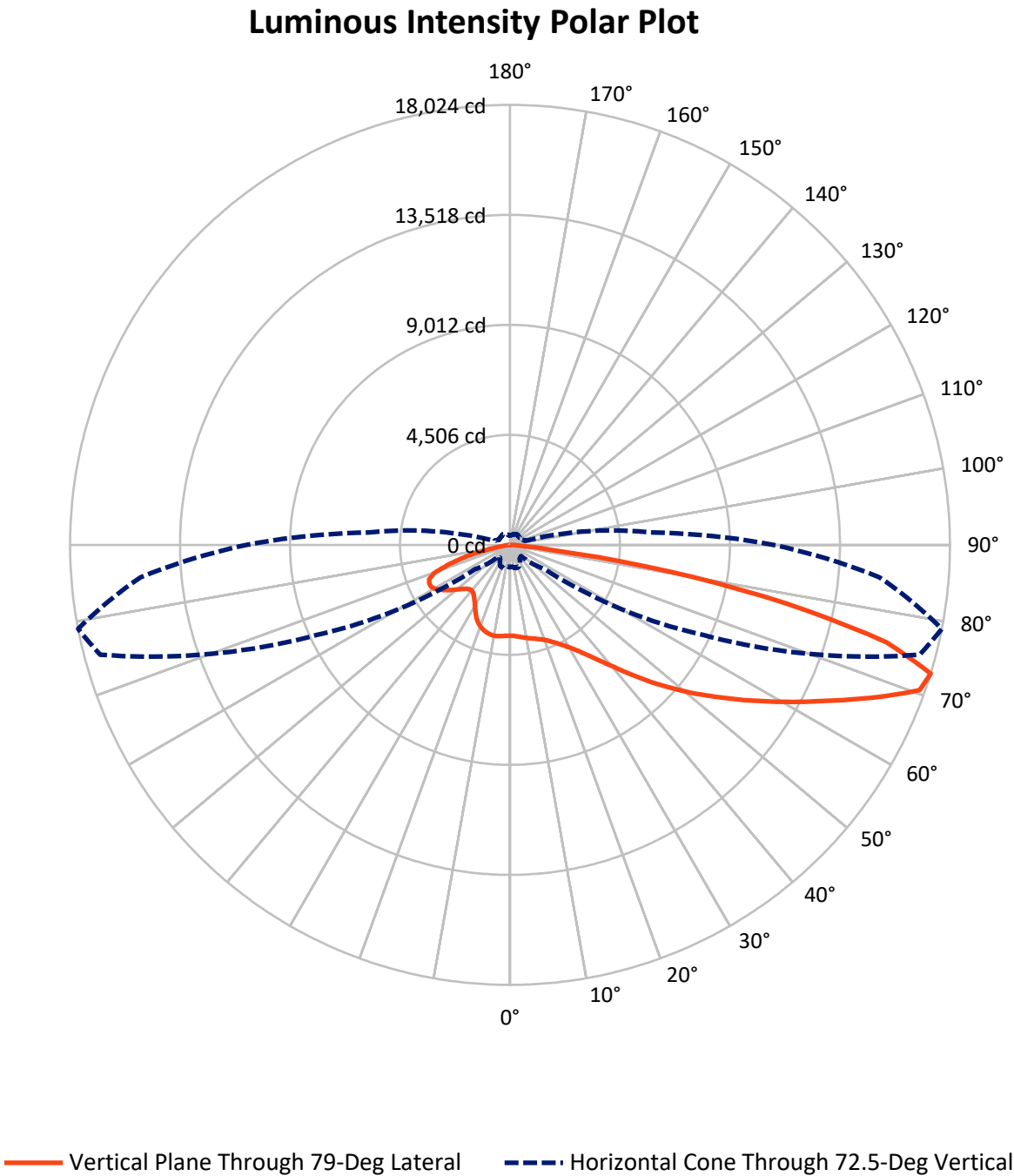
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
Type II - Medium - N/A

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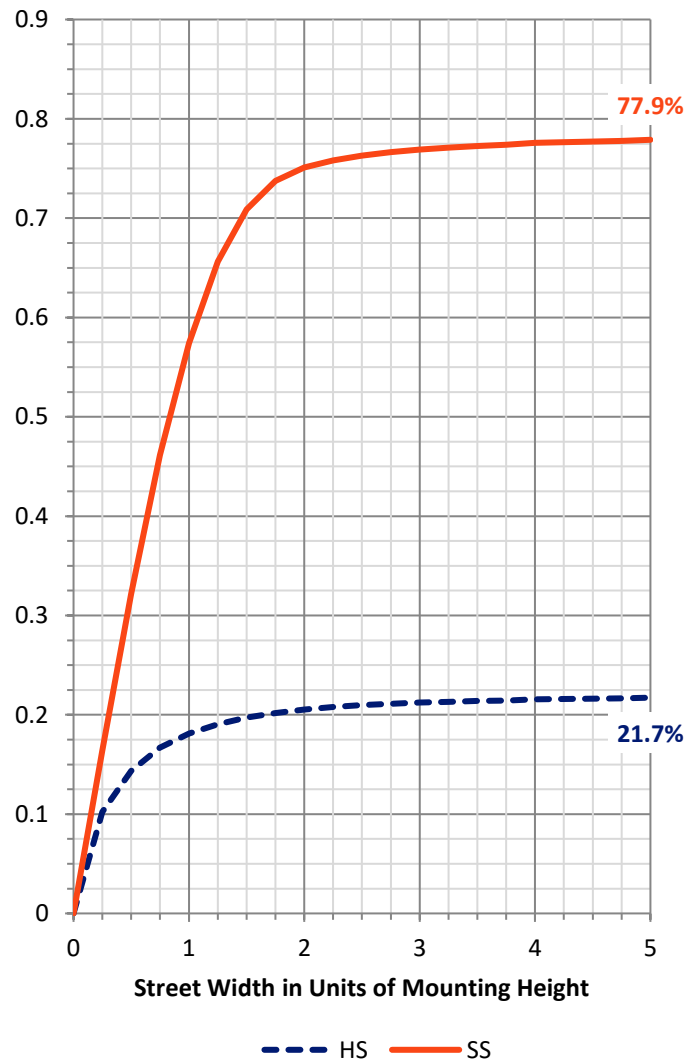
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4077.6	0.0	4077.6
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	14452.4	0.0	14452.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	18530.0	0.0	18530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.6	1.8
10°-20°	882.8	4.8
20°-30°	1424.4	7.7
30°-40°	2137.9	11.5
40°-50°	3032.7	16.4
50°-60°	3829.9	20.7
60°-70°	3889.8	21.0
70°-80°	2651.0	14.3
80°-90°	343.9	1.9
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°	18530.0	100.0
0°-180°	18530.0	100.0

Coefficient of Utilization



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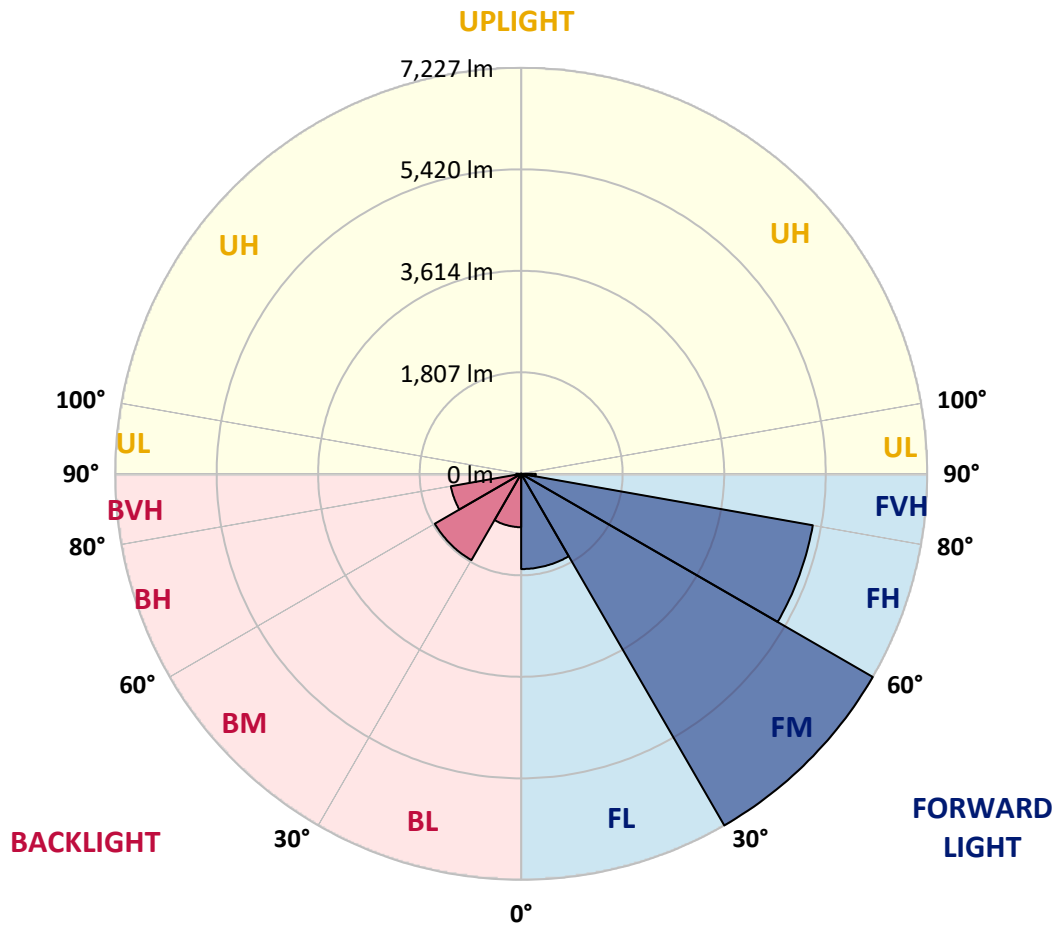
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1695.0	9.1			
FM	(30°-60°)	7227.1	39.0			
FH	(60°-80°)	5271.2	28.4			G3/7500
FVH	(80°-90°)	259.1	1.4			G3/500
BL	(0°-30°)	949.8	5.1	B2/1000		
BM	(30°-60°)	1773.3	9.6	B2/2500		
BH	(60°-80°)	1269.6	6.9	B3/2500		G3/2500
BVH	(80°-90°)	84.8	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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7
2.5°	3721.7	3704.0	3714.8	3710.9	3715.8	3721.7	3723.6	3726.6	3736.4	3735.4	3734.4
5°	3713.8	3696.2	3710.9	3706.0	3718.7	3732.5	3744.2	3755.0	3770.7	3777.6	3767.7
7.5°	3697.2	3685.4	3700.1	3714.8	3738.3	3758.9	3775.6	3800.1	3822.6	3826.6	3833.4
10°	3600.1	3591.3	3625.6	3663.9	3728.5	3784.4	3820.7	3849.1	3873.6	3877.5	3887.3
12.5°	3499.2	3488.4	3526.6	3578.6	3683.5	3784.4	3860.9	3898.1	3919.7	3932.4	3947.1
15°	3482.5	3473.7	3495.3	3540.4	3627.6	3757.9	3888.3	3956.9	3975.5	3990.2	3996.1
17.5°	3562.9	3546.2	3555.1	3570.7	3621.7	3733.4	3909.9	4023.6	4052.0	4067.7	4067.7
20°	3749.1	3725.6	3711.9	3680.5	3671.7	3737.4	3907.9	4103.9	4141.2	4160.8	4165.7
22.5°	3997.1	3981.4	3952.0	3872.6	3786.4	3785.4	3945.2	4206.9	4276.5	4295.1	4283.3
25°	4297.0	4273.5	4236.3	4128.4	3962.8	3880.5	4007.9	4338.2	4454.8	4459.7	4425.4
27.5°	4642.1	4606.8	4555.8	4413.7	4190.2	4029.5	4103.9	4489.1	4659.7	4657.7	4587.2
30°	5005.7	4970.4	4916.5	4744.0	4462.7	4230.4	4237.2	4651.9	4902.8	4892.0	4771.4
32.5°	5271.3	5244.9	5234.1	5100.8	4776.3	4467.6	4390.2	4832.2	5202.7	5192.9	5024.3
35°	5475.2	5440.9	5453.6	5386.0	5118.4	4733.2	4577.4	5046.9	5567.3	5566.3	5356.6
37.5°	5677.1	5646.7	5657.5	5612.4	5435.0	5070.4	4805.7	5309.5	6019.2	6040.7	5758.5
40°	5861.4	5829.0	5872.2	5830.0	5681.0	5429.1	5065.5	5606.5	6542.6	6583.8	6244.6
42.5°	5972.1	5946.7	6018.2	6019.2	5894.7	5732.0	5350.7	5933.9	7148.3	7240.5	6842.5
45°	6010.4	6001.5	6109.4	6131.9	6083.9	5907.4	5607.5	6290.7	7801.1	7965.8	7523.7
47.5°	5969.2	5952.5	6101.5	6184.8	6223.1	5989.8	5820.2	6676.9	8467.6	8708.8	8266.7
50°	5761.4	5729.1	5950.6	6126.0	6262.3	6043.7	6034.9	7122.8	9225.3	9489.0	9013.6
52.5°	5388.0	5363.5	5615.4	5920.2	6176.0	6070.2	6276.0	7610.0	9944.7	10285.8	9779.1
55°	4910.6	4878.3	5155.7	5553.6	5961.4	6061.3	6517.1	8155.0	10793.6	11139.6	10570.1
57.5°	4153.9	4089.2	4440.1	4910.6	5611.4	6050.6	6768.0	8697.0	11656.1	12070.7	11414.0
60°	3050.3	2954.2	3384.5	3942.2	4927.3	5945.7	7078.7	9304.7	12691.2	13064.6	12335.4
62.5°	1776.1	1720.2	2001.5	2522.0	3713.8	5328.2	7253.2	10011.4	13708.6	14100.6	13241.0
65°	1379.1	1363.4	1387.9	1428.1	2067.2	3989.3	6715.1	10700.4	15002.4	15276.8	14184.9
67.5°	1261.5	1249.7	1260.5	1185.0	1048.8	2222.0	5312.5	10874.9	16388.3	16555.0	15011.2
70°	1121.3	1107.6	1142.9	1078.2	825.3	1010.5	3432.5	10241.7	17491.0	17803.7	15639.5
72.5°	913.5	897.8	980.2	950.8	694.9	648.9	1724.1	8737.2	17375.4	18024.2	15189.6
75°	701.8	693.0	791.0	815.5	566.5	510.7	827.3	6494.6	15290.6	15944.3	13091.1
77.5°	545.0	538.1	588.1	677.3	456.8	396.0	508.7	4119.6	11522.8	11637.5	9021.4
80°	408.7	389.1	435.2	524.4	355.8	289.1	345.0	2402.4	7283.6	6602.4	3926.5
82.5°	255.8	246.0	284.2	349.9	250.9	199.0	224.5	1327.1	2918.9	1719.2	757.7
85°	146.0	142.1	154.9	200.0	136.2	114.7	128.4	586.1	533.2	366.6	228.4
87.5°	58.8	56.8	70.6	89.2	50.0	42.1	45.1	141.1	117.6	108.8	75.5
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°	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7	3719.7
2.5°	3730.5	3730.5	3716.8	3695.2	3670.7	3655.0	3629.5	3622.7	3596.2	3588.4	3601.1
5°	3775.6	3767.7	3725.6	3664.8	3581.5	3505.1	3420.8	3367.8	3293.4	3266.9	3286.5
7.5°	3832.4	3810.9	3738.3	3605.0	3430.6	3259.0	3080.7	2945.4	2816.0	2769.9	2775.8
10°	3884.4	3854.0	3730.5	3497.2	3195.3	2898.3	2614.1	2415.1	2264.2	2202.4	2216.2
12.5°	3936.3	3880.5	3678.6	3317.9	2861.1	2458.3	2155.4	2000.5	1907.4	1832.9	1857.4
15°	3985.3	3906.9	3598.2	3077.7	2494.5	2085.8	1862.3	1738.8	1664.3	1615.3	1624.1
17.5°	4042.2	3929.5	3477.6	2772.9	2145.6	1828.0	1645.7	1571.2	1556.5	1550.6	1554.5
20°	4121.6	3950.1	3318.8	2431.8	1888.8	1622.2	1528.1	1521.2	1520.2	1517.3	1527.1
22.5°	4206.9	3974.6	3109.1	2122.1	1670.2	1493.8	1477.1	1463.4	1454.6	1453.6	1464.4
25°	4307.8	3982.4	2846.4	1868.2	1484.0	1433.0	1413.4	1392.8	1386.9	1386.9	1392.8
27.5°	4405.8	3955.9	2540.6	1647.7	1379.1	1377.1	1351.6	1344.8	1343.8	1346.7	1354.6
30°	4503.9	3906.0	2236.7	1443.8	1318.3	1318.3	1309.5	1314.4	1318.3	1328.1	1335.0
32.5°	4636.2	3853.0	1982.9	1292.8	1265.4	1255.6	1264.4	1274.2	1278.1	1290.9	1301.7
35°	4830.2	3815.8	1781.0	1210.5	1210.5	1197.8	1202.7	1200.7	1191.9	1186.0	1199.7
37.5°	5087.0	3813.8	1614.3	1172.3	1164.4	1162.5	1163.5	1150.7	1116.4	1075.2	1076.2
40°	5395.8	3866.7	1485.9	1145.8	1139.9	1151.7	1145.8	1111.5	1017.4	945.9	943.9
42.5°	5810.4	4017.7	1403.6	1113.5	1131.1	1145.8	1122.3	1003.7	940.0	891.9	890.0
45°	6298.5	4262.7	1361.4	1079.2	1114.4	1132.1	1018.4	966.4	915.5	857.6	853.7
47.5°	6851.3	4571.5	1351.6	1046.8	1077.2	1088.0	974.3	950.8	892.9	830.2	825.3
50°	7453.2	4937.1	1378.1	1008.6	1023.3	986.0	959.6	938.0	878.2	816.5	809.6
52.5°	8075.6	5339.9	1431.0	956.6	969.4	928.2	953.7	935.1	869.4	786.1	780.2
55°	8687.2	5745.7	1482.0	895.9	914.5	876.3	937.0	923.3	829.2	735.1	730.2
57.5°	9308.6	6149.5	1532.0	842.0	861.6	826.3	910.6	891.9	784.1	688.1	686.1
60°	9954.5	6541.6	1555.5	790.0	803.7	780.2	870.4	838.0	733.2	640.0	637.1
62.5°	10559.3	6868.0	1517.3	738.1	746.9	737.1	817.5	774.3	682.2	586.1	585.2
65°	11166.0	7062.1	1399.7	687.1	689.1	684.2	743.0	705.7	622.4	539.1	533.2
67.5°	11715.9	7170.9	1212.5	632.2	627.3	625.3	673.4	631.2	564.6	492.0	486.2
70°	11832.5	6894.5	926.3	567.5	567.5	562.6	596.9	553.8	500.9	442.1	440.1
72.5°	10807.3	5799.6	657.7	494.0	501.8	492.0	520.5	484.2	436.2	397.0	385.2
75°	8714.6	4252.9	478.3	418.5	432.3	415.6	442.1	416.6	375.4	374.4	337.2
77.5°	5987.8	2629.8	347.0	345.0	354.8	333.3	363.6	349.9	312.7	296.0	277.4
80°	2555.3	1048.8	252.9	266.6	266.6	247.0	282.3	286.2	253.9	246.0	246.0
82.5°	508.7	298.0	177.4	183.3	172.5	166.6	200.0	221.5	305.8	340.1	341.1
85°	152.9	109.8	106.8	100.0	88.2	89.2	117.6	222.5	274.4	156.8	135.3
87.5°	42.1	27.4	28.4	22.5	18.6	24.5	40.2	168.6	92.1	39.2	33.3
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)