

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: P948784

Luminaire Tested: **GALN-SB3D-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948784
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-SB3D-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28148 lumens
Efficiency: N/A
Efficacy: 129.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 218.1
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

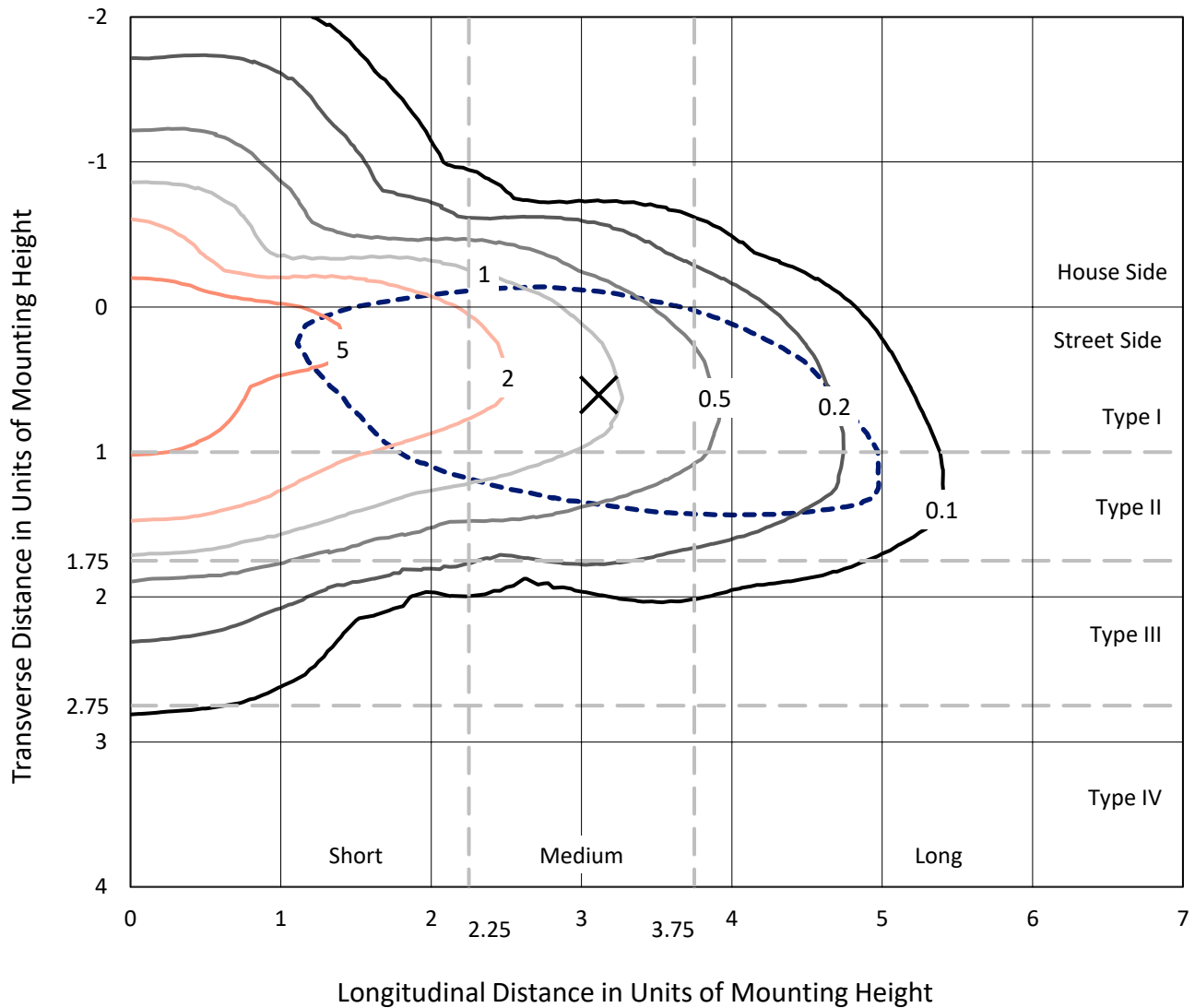


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

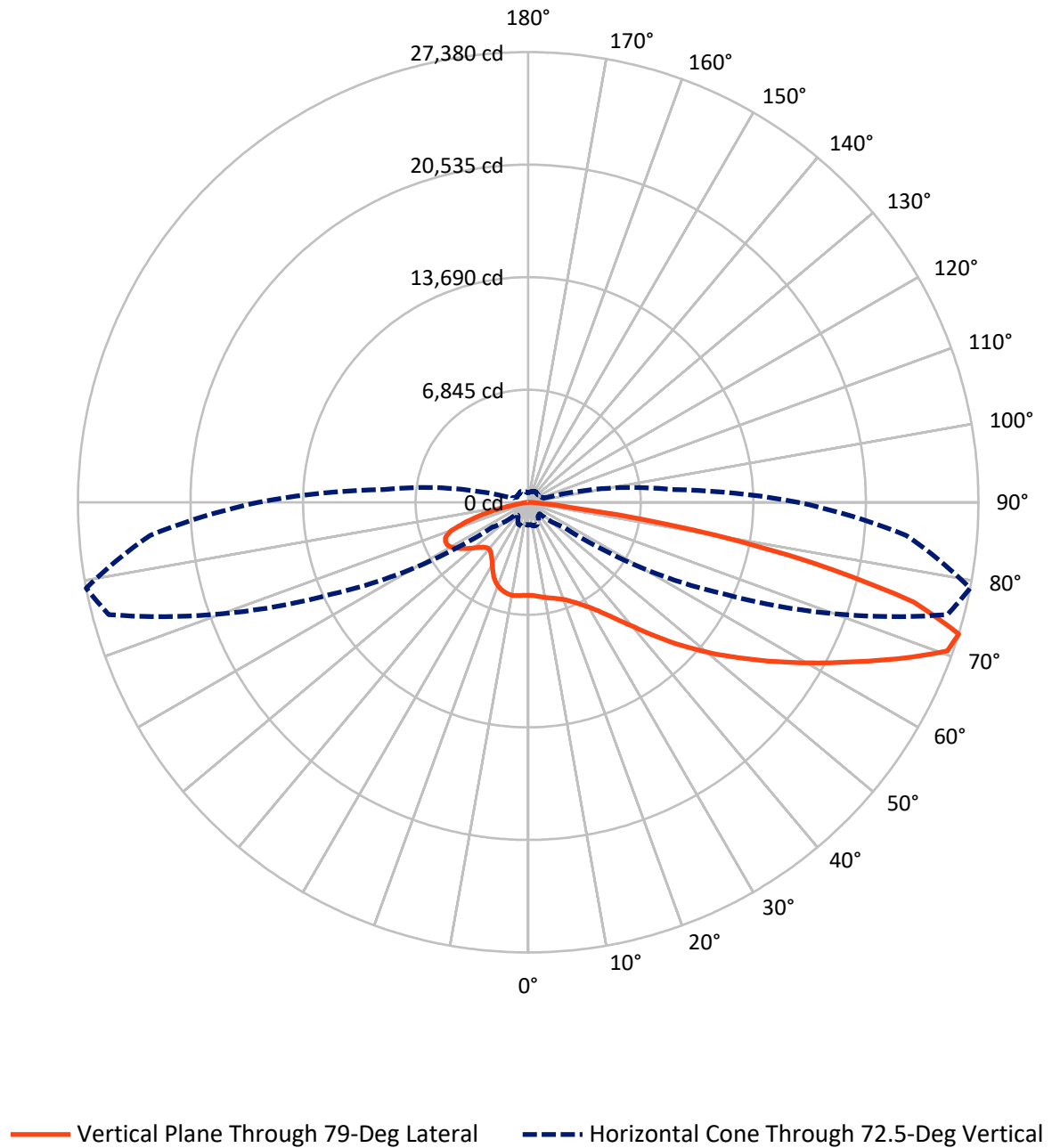


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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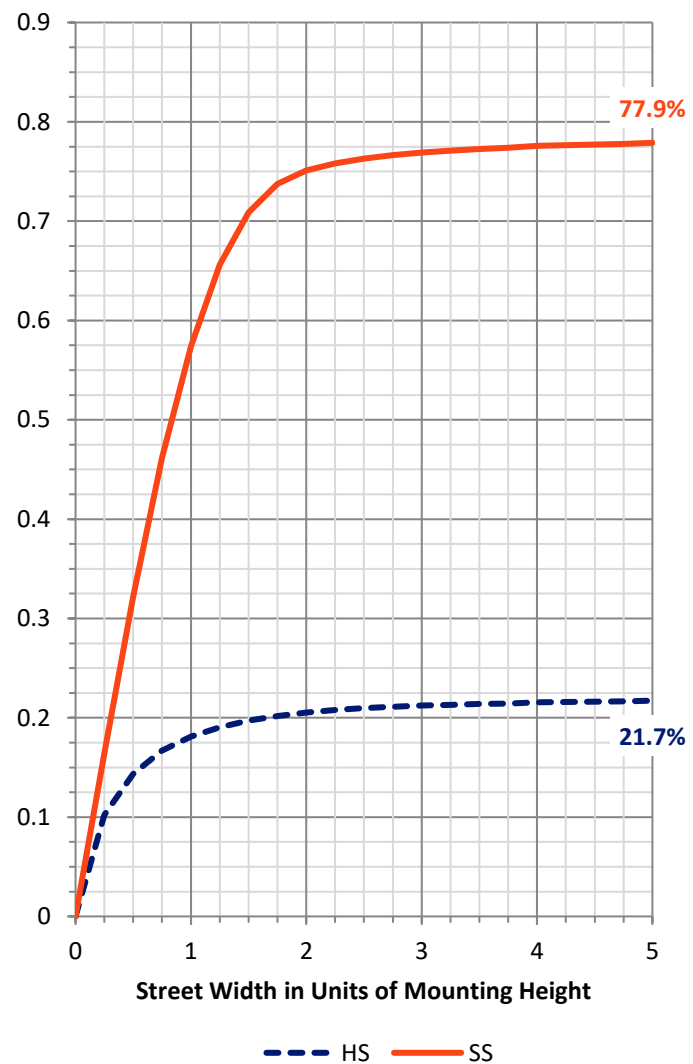
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6194.1	0.0	6194.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	21953.9	0.0	21953.9
	% Fixture	78.0	0.0	78.0
Total	Lumens	28148.0	0.0	28148.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.9	1.8
10°-20°	1341.0	4.8
20°-30°	2163.8	7.7
30°-40°	3247.5	11.5
40°-50°	4606.8	16.4
50°-60°	5817.8	20.7
60°-70°	5908.7	21.0
70°-80°	4027.1	14.3
80°-90°	522.5	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°	28148.0	100.0
0°-180°	28148.0	100.0

Coefficient of Utilization



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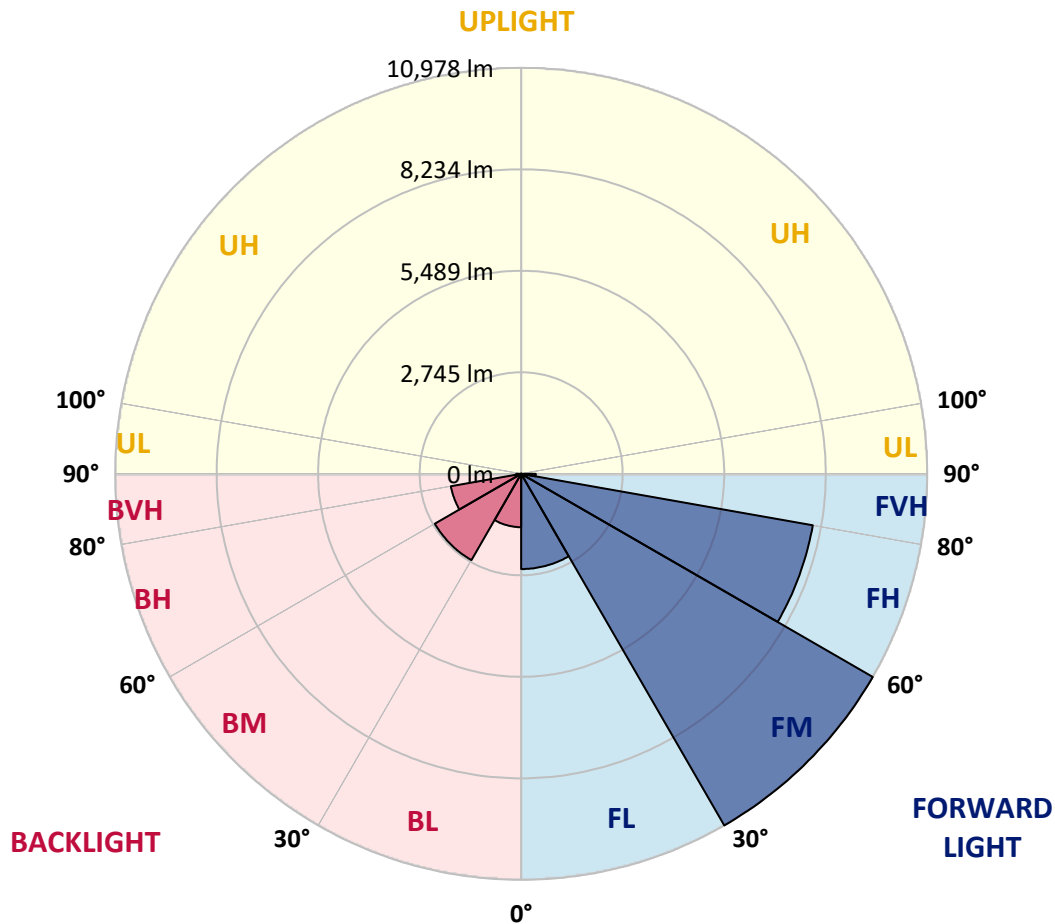
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2574.9	9.1			
FM	(30°-60°)	10978.3	39.0			
FH	(60°-80°)	8007.2	28.4			G4/12000
FVH	(80°-90°)	393.6	1.4			G3/500
BL	(0°-30°)	1442.8	5.1	B3/2500		
BM	(30°-60°)	2693.8	9.6	B3/5000		
BH	(60°-80°)	1928.6	6.9	B3/2500		G3/2500
BVH	(80°-90°)	128.9	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-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4
2.5°	5653.4	5626.6	5643.0	5637.0	5644.5	5653.4	5656.4	5660.9	5675.8	5674.3	5672.8
5°	5641.5	5614.7	5637.0	5629.6	5649.0	5669.8	5687.7	5704.0	5727.9	5738.3	5723.4
7.5°	5616.2	5598.3	5620.7	5643.0	5678.7	5710.0	5735.3	5772.5	5806.8	5812.7	5823.2
10°	5468.8	5455.4	5507.5	5565.6	5663.8	5748.7	5803.8	5847.0	5884.2	5890.2	5905.0
12.5°	5315.4	5299.1	5357.1	5436.0	5595.4	5748.7	5864.8	5921.4	5954.2	5973.5	5995.9
15°	5290.1	5276.7	5309.5	5378.0	5510.5	5708.5	5906.5	6010.8	6039.1	6061.4	6070.3
17.5°	5412.2	5386.9	5400.3	5424.1	5501.6	5671.3	5939.3	6112.0	6155.2	6179.0	6179.0
20°	5695.1	5659.4	5638.5	5590.9	5577.5	5677.2	5936.3	6234.1	6290.7	6320.5	6327.9
22.5°	6071.8	6048.0	6003.3	5882.7	5751.7	5750.2	5992.9	6390.4	6496.1	6524.4	6506.6
25°	6527.4	6491.7	6435.1	6271.3	6019.7	5894.6	6088.2	6590.0	6767.1	6774.6	6722.5
27.5°	7051.5	6997.9	6920.5	6704.6	6365.1	6120.9	6234.1	6819.2	7078.3	7075.3	6968.1
30°	7603.9	7550.3	7468.4	7206.4	6779.0	6426.2	6436.6	7066.4	7447.6	7431.2	7248.1
32.5°	8007.4	7967.2	7950.8	7748.3	7255.5	6786.5	6668.9	7340.4	7903.2	7888.3	7632.2
35°	8317.1	8265.0	8284.3	8181.6	7775.1	7190.0	6953.2	7666.4	8457.1	8455.6	8136.9
37.5°	8623.8	8577.7	8594.0	8525.5	8256.0	7702.2	7300.2	8065.5	9143.4	9176.2	8747.4
40°	8903.7	8854.6	8920.1	8856.1	8629.8	8247.1	7694.7	8516.6	9938.5	10001.1	9485.9
42.5°	9072.0	9033.3	9142.0	9143.4	8954.4	8707.2	8128.0	9013.9	10858.7	10998.6	10394.1
45°	9130.0	9116.6	9280.4	9314.7	9241.7	8973.7	8518.1	9555.9	11850.3	12100.4	11428.9
47.5°	9067.5	9042.2	9268.5	9395.1	9453.1	9098.8	8841.2	10142.5	12862.8	13229.0	12557.5
50°	8751.9	8702.7	9039.2	9305.7	9512.7	9180.7	9167.3	10820.0	14013.7	14414.2	13692.1
52.5°	8184.6	8147.4	8530.0	8993.1	9381.7	9220.9	9533.5	11560.0	15106.6	15624.7	14854.9
55°	7459.5	7410.3	7831.7	8436.2	9055.6	9207.5	9899.8	12387.8	16396.0	16921.6	16056.5
57.5°	6310.0	6211.8	6744.8	7459.5	8524.1	9191.1	10281.0	13211.2	17706.2	18336.0	17338.4
60°	4633.5	4487.6	5141.2	5988.4	7484.8	9031.8	10753.0	14134.3	19278.5	19845.8	18738.0
62.5°	2697.9	2613.1	3040.4	3831.0	5641.5	8093.8	11018.0	15207.8	20824.0	21419.6	20113.8
65°	2094.9	2071.1	2108.3	2169.4	3140.1	6059.9	10200.6	16254.5	22789.4	23206.3	21547.6
67.5°	1916.2	1898.4	1914.7	1800.1	1593.1	3375.4	8069.9	16519.5	24894.7	25147.8	22802.8
70°	1703.3	1682.5	1736.1	1637.8	1253.7	1535.1	5214.2	15557.7	26569.7	27044.7	23757.2
72.5°	1387.7	1363.8	1488.9	1444.3	1055.6	985.7	2619.0	13272.2	26394.0	27379.7	23073.8
75°	1066.1	1052.7	1201.6	1238.8	860.6	775.7	1256.6	9865.6	23227.1	24220.2	19886.0
77.5°	827.8	817.4	893.4	1028.8	693.8	601.5	772.7	6257.9	17503.7	17677.9	13704.0
80°	620.9	591.1	661.1	796.6	540.5	439.2	524.1	3649.3	11064.1	10029.4	5964.6
82.5°	388.6	373.7	431.8	531.5	381.2	302.3	341.0	2016.0	4434.0	2611.6	1150.9
85°	221.8	215.9	235.2	303.7	207.0	174.2	195.0	890.4	810.0	556.9	346.9
87.5°	89.3	86.4	107.2	135.5	75.9	64.0	68.5	214.4	178.7	165.3	114.6
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°	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4	5650.4
2.5°	5666.8	5666.8	5646.0	5613.2	5576.0	5552.2	5513.5	5503.0	5462.8	5450.9	5470.3
5°	5735.3	5723.4	5659.4	5567.1	5440.5	5324.4	5196.3	5115.9	5002.8	4962.6	4992.3
7.5°	5821.7	5788.9	5678.7	5476.2	5211.2	4950.7	4679.7	4474.2	4277.7	4207.7	4216.6
10°	5900.6	5854.4	5666.8	5312.5	4853.9	4402.7	3970.9	3668.7	3439.4	3345.6	3366.4
12.5°	5979.5	5894.6	5587.9	5040.0	4346.2	3734.2	3274.1	3038.9	2897.4	2784.3	2821.5
15°	6053.9	5934.8	5465.8	4675.2	3789.3	3168.4	2828.9	2641.3	2528.2	2453.7	2467.1
17.5°	6140.3	5969.1	5282.7	4212.1	3259.2	2776.8	2499.9	2386.7	2364.4	2355.5	2361.4
20°	6260.9	6000.3	5041.5	3694.0	2869.1	2464.2	2321.2	2310.8	2309.3	2304.8	2319.7
22.5°	6390.4	6037.6	4722.8	3223.5	2537.1	2269.1	2243.8	2223.0	2209.6	2208.1	2224.4
25°	6543.8	6049.5	4323.8	2837.9	2254.2	2176.8	2147.0	2115.8	2106.8	2106.8	2115.8
27.5°	6692.7	6009.3	3859.3	2502.9	2094.9	2091.9	2053.2	2042.8	2041.3	2045.8	2057.7
30°	6841.6	5933.3	3397.7	2193.2	2002.6	2002.6	1989.2	1996.6	2002.6	2017.5	2027.9
32.5°	7042.6	5852.9	3012.1	1963.9	1922.2	1907.3	1920.7	1935.6	1941.5	1960.9	1977.3
35°	7337.4	5796.4	2705.4	1838.8	1838.8	1819.5	1826.9	1823.9	1810.5	1801.6	1822.4
37.5°	7727.5	5793.4	2452.2	1780.7	1768.8	1765.9	1767.3	1748.0	1695.9	1633.3	1634.8
40°	8196.5	5873.8	2257.2	1740.5	1731.6	1749.5	1740.5	1688.4	1545.5	1436.8	1433.8
42.5°	8826.3	6103.1	2132.1	1691.4	1718.2	1740.5	1704.8	1524.7	1427.9	1354.9	1351.9
45°	9567.8	6475.3	2068.1	1639.3	1692.9	1719.7	1547.0	1468.1	1390.6	1302.8	1296.8
47.5°	10407.5	6944.3	2053.2	1590.2	1636.3	1652.7	1480.0	1444.3	1356.4	1261.1	1253.7
50°	11321.7	7499.7	2093.4	1532.1	1554.4	1497.9	1457.7	1424.9	1334.1	1240.3	1229.8
52.5°	12267.2	8111.6	2173.8	1453.2	1472.5	1410.0	1448.7	1420.4	1320.7	1194.1	1185.2
55°	13196.3	8728.0	2251.2	1360.9	1389.2	1331.1	1423.4	1402.6	1259.6	1116.7	1109.2
57.5°	14140.3	9341.5	2327.2	1279.0	1308.8	1255.2	1383.2	1354.9	1191.1	1045.2	1042.2
60°	15121.5	9937.0	2362.9	1200.1	1220.9	1185.2	1322.2	1273.0	1113.7	972.3	967.8
62.5°	16040.1	10432.8	2304.8	1121.2	1134.6	1119.7	1241.8	1176.2	1036.3	890.4	888.9
65°	16961.8	10727.7	2126.2	1043.7	1046.7	1039.3	1128.6	1072.0	945.5	818.9	810.0
67.5°	17797.0	10892.9	1841.8	960.4	952.9	949.9	1022.9	958.9	857.6	747.4	738.5
70°	17974.2	10473.0	1407.0	862.1	862.1	854.6	906.8	841.2	760.8	671.5	668.5
72.5°	16416.8	8809.9	999.1	750.4	762.3	747.4	790.6	735.5	662.6	603.0	585.1
75°	13238.0	6460.4	726.6	635.8	656.6	631.3	671.5	632.8	570.3	568.8	512.2
77.5°	9095.8	3994.8	527.1	524.1	539.0	506.2	552.4	531.5	475.0	449.7	421.4
80°	3881.6	1593.1	384.1	405.0	405.0	375.2	428.8	434.8	385.6	373.7	373.7
82.5°	772.7	452.6	269.5	278.4	262.0	253.1	303.7	336.5	464.5	516.7	518.1
85°	232.3	166.8	162.3	151.9	134.0	135.5	178.7	338.0	416.9	238.2	205.5
87.5°	64.0	41.7	43.2	34.2	28.3	37.2	61.0	256.1	140.0	59.6	50.6
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)