

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: P946285

Luminaire Tested: **GALN-SB2A-727-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946285
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-SB2A-727-U-SL2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8270 lumens
Efficiency: N/A
Efficacy: 144.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 57.3
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

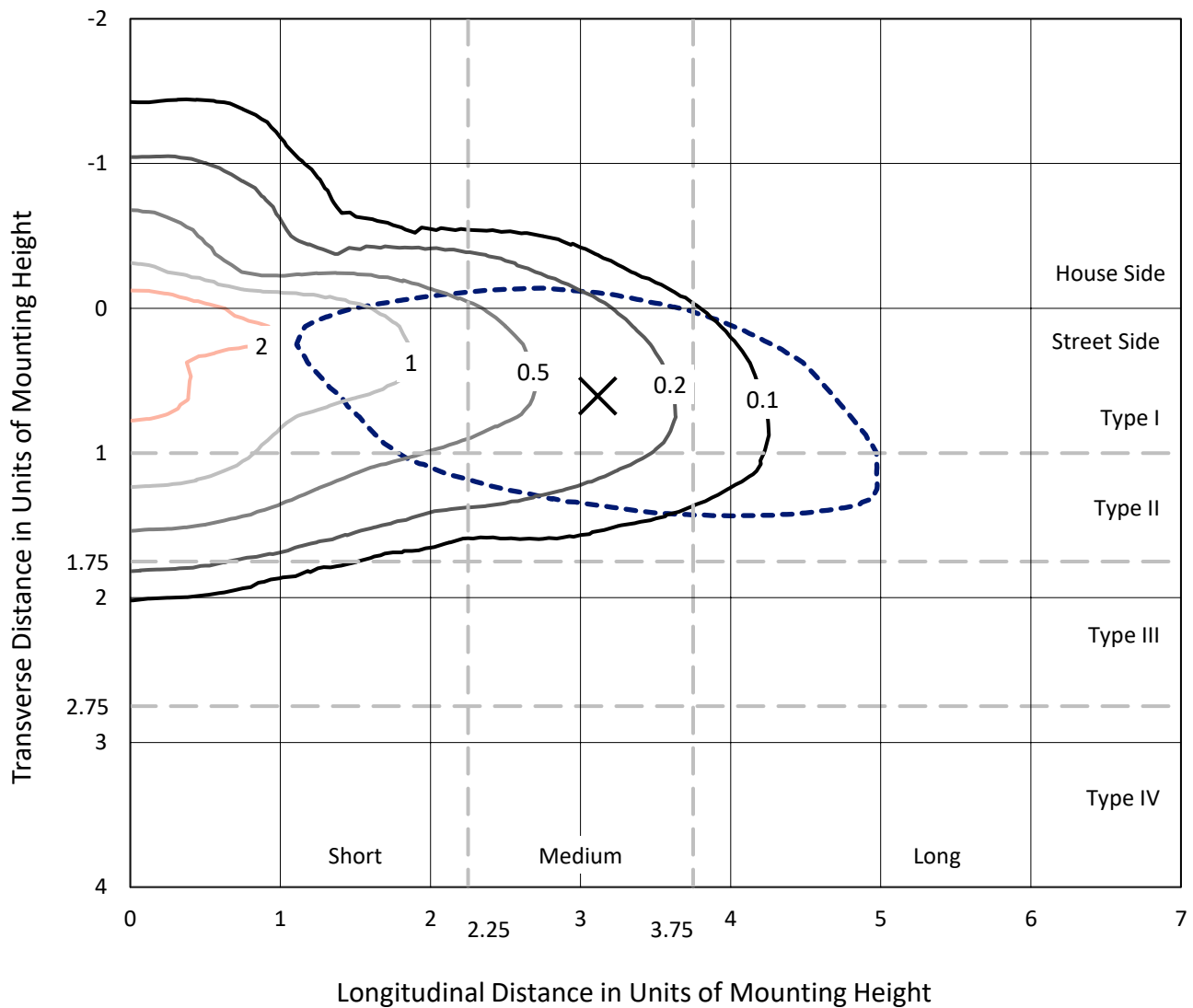


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Iso-Footcandle Lines of Horizontal Illumination

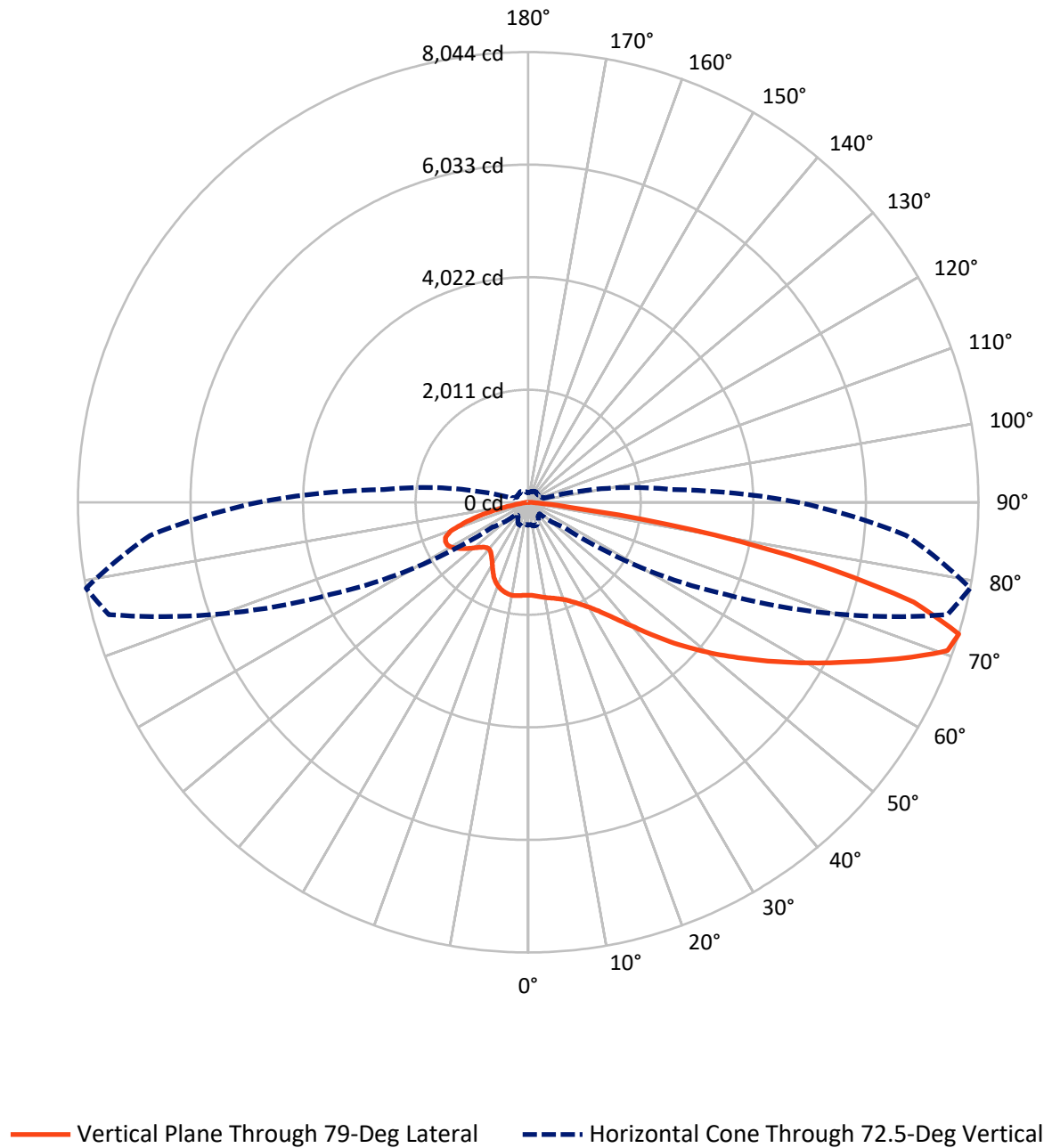
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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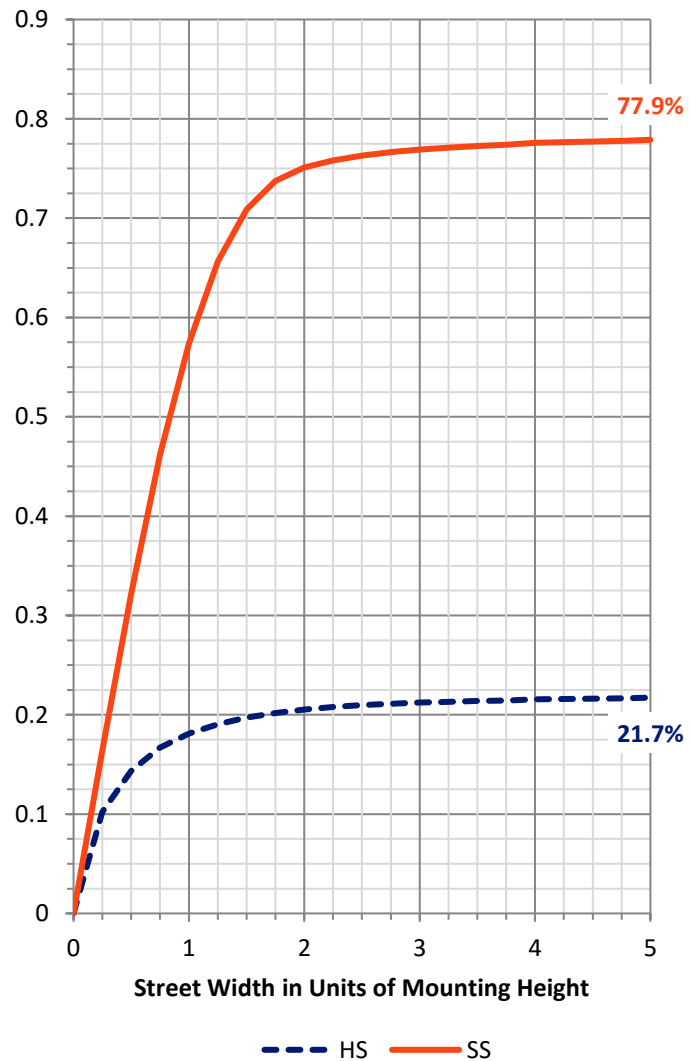
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1819.9	0.0	1819.9
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	6450.2	0.0	6450.2
	% Fixture	78.0	0.0	78.0
Total	Lumens	8270.0	0.0	8270.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.7	1.8
10°-20°	394.0	4.8
20°-30°	635.7	7.7
30°-40°	954.1	11.5
40°-50°	1353.5	16.4
50°-60°	1709.3	20.7
60°-70°	1736.0	21.0
70°-80°	1183.2	14.3
80°-90°	153.5	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°	8270.0	100.0
0°-180°	8270.0	100.0

Coefficient of Utilization



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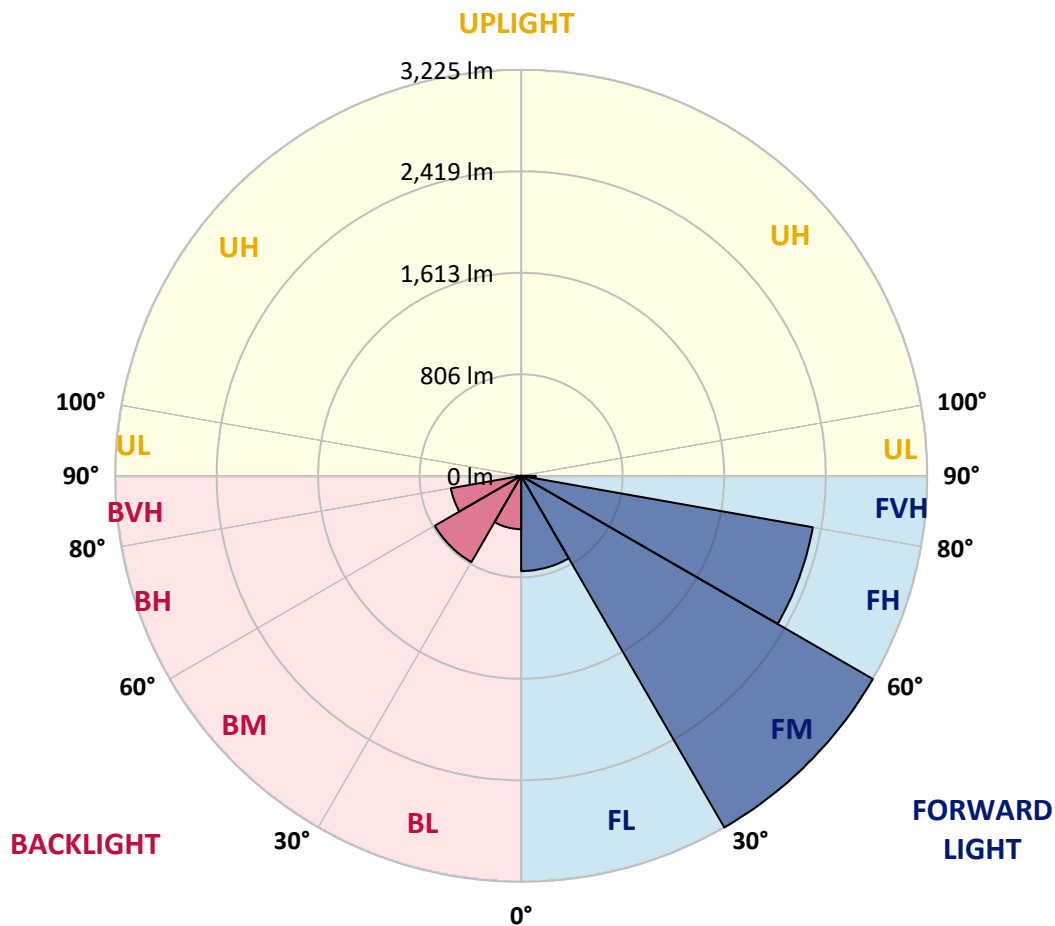
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	756.5	9.1			
FM	(30°-60°)	3225.5	39.0			
FH	(60°-80°)	2352.5	28.4			G2/5000
FVH	(80°-90°)	115.6	1.4			G2/225
BL	(0°-30°)	423.9	5.1	B1/500		
BM	(30°-60°)	791.4	9.6	B1/1000		
BH	(60°-80°)	566.6	6.9	B2/1000		G2/1000
BVH	(80°-90°)	37.9	0.5			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°	79°	85°
0°	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1
2.5°	1661.0	1653.1	1657.9	1656.2	1658.4	1661.0	1661.9	1663.2	1667.6	1667.1	1666.7
5°	1657.5	1649.6	1656.2	1654.0	1659.7	1665.8	1671.1	1675.9	1682.9	1685.9	1681.6
7.5°	1650.1	1644.8	1651.4	1657.9	1668.4	1677.6	1685.1	1696.0	1706.1	1707.8	1710.9
10°	1606.8	1602.8	1618.1	1635.2	1664.1	1689.0	1705.2	1717.9	1728.8	1730.6	1734.9
12.5°	1561.7	1556.9	1573.9	1597.1	1643.9	1689.0	1723.1	1739.7	1749.4	1755.1	1761.6
15°	1554.3	1550.3	1559.9	1580.1	1619.0	1677.2	1735.4	1766.0	1774.3	1780.9	1783.5
17.5°	1590.1	1582.7	1586.6	1593.6	1616.4	1666.2	1745.0	1795.7	1808.4	1815.4	1815.4
20°	1673.2	1662.7	1656.6	1642.6	1638.7	1668.0	1744.1	1831.6	1848.2	1857.0	1859.2
22.5°	1783.9	1776.9	1763.8	1728.4	1689.9	1689.4	1760.7	1877.5	1908.6	1916.9	1911.7
25°	1917.8	1907.3	1890.7	1842.5	1768.6	1731.9	1788.7	1936.2	1988.2	1990.4	1975.1
27.5°	2071.8	2056.0	2033.3	1969.8	1870.1	1798.4	1831.6	2003.5	2079.6	2078.8	2047.3
30°	2234.1	2218.3	2194.3	2117.3	1991.7	1888.0	1891.1	2076.1	2188.1	2183.3	2129.5
32.5°	2352.6	2340.8	2336.0	2276.5	2131.7	1993.9	1959.3	2156.6	2322.0	2317.6	2242.4
35°	2443.6	2428.3	2434.0	2403.8	2284.4	2112.4	2042.9	2252.4	2484.7	2484.3	2390.7
37.5°	2533.7	2520.2	2525.0	2504.8	2425.7	2262.9	2144.8	2369.7	2686.4	2696.0	2570.0
40°	2616.0	2601.5	2620.8	2602.0	2535.5	2423.0	2260.7	2502.2	2920.0	2938.4	2787.0
42.5°	2665.4	2654.0	2685.9	2686.4	2630.8	2558.2	2388.0	2648.3	3190.3	3231.4	3053.8
45°	2682.4	2678.5	2726.6	2736.7	2715.3	2636.5	2502.7	2807.6	3481.7	3555.2	3357.9
47.5°	2664.1	2656.6	2723.1	2760.3	2777.4	2673.3	2597.6	2979.9	3779.1	3886.7	3689.5
50°	2571.3	2556.9	2655.8	2734.1	2794.9	2697.3	2693.4	3179.0	4117.3	4235.0	4022.8
52.5°	2404.7	2393.7	2506.2	2642.2	2756.4	2709.1	2801.0	3396.4	4438.4	4590.6	4364.4
55°	2191.6	2177.2	2301.0	2478.6	2660.6	2705.2	2908.6	3639.6	4817.2	4971.6	4717.5
57.5°	1853.9	1825.0	1981.6	2191.6	2504.4	2700.4	3020.6	3881.5	5202.2	5387.2	5094.1
60°	1361.3	1318.5	1510.5	1759.4	2199.1	2653.6	3159.3	4152.7	5664.1	5830.8	5505.3
62.5°	792.7	767.7	893.3	1125.6	1657.5	2378.0	3237.1	4468.1	6118.2	6293.2	5909.5
65°	615.5	608.5	619.4	637.4	922.6	1780.4	2997.0	4775.6	6695.6	6818.1	6330.8
67.5°	563.0	557.7	562.6	528.9	468.1	991.7	2371.0	4853.5	7314.2	7388.5	6699.6
70°	500.4	494.3	510.1	481.2	368.3	451.0	1532.0	4570.9	7806.3	7945.8	6980.0
72.5°	407.7	400.7	437.5	424.3	310.2	289.6	769.5	3899.4	7754.7	8044.3	6779.2
75°	313.2	309.3	353.0	364.0	252.8	227.9	369.2	2898.5	6824.2	7116.0	5842.6
77.5°	243.2	240.2	262.5	302.3	203.9	176.7	227.0	1838.6	5142.7	5193.8	4026.3
80°	182.4	173.7	194.2	234.0	158.8	129.0	154.0	1072.2	3250.7	2946.7	1752.4
82.5°	114.2	109.8	126.9	156.2	112.0	88.8	100.2	592.3	1302.7	767.3	338.1
85°	65.2	63.4	69.1	89.2	60.8	51.2	57.3	261.6	238.0	163.6	101.9
87.5°	26.2	25.4	31.5	39.8	22.3	18.8	20.1	63.0	52.5	48.6	33.7
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°	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1	1660.1
2.5°	1664.9	1664.9	1658.8	1649.2	1638.3	1631.3	1619.9	1616.8	1605.0	1601.5	1607.2
5°	1685.1	1681.6	1662.7	1635.6	1598.4	1564.3	1526.7	1503.1	1469.8	1458.0	1466.8
7.5°	1710.4	1700.8	1668.4	1608.9	1531.1	1454.5	1374.9	1314.5	1256.8	1236.2	1238.9
10°	1733.6	1720.1	1664.9	1560.8	1426.1	1293.5	1166.7	1077.9	1010.5	983.0	989.1
12.5°	1756.8	1731.9	1641.8	1480.8	1276.9	1097.1	962.0	892.8	851.3	818.0	829.0
15°	1778.7	1743.7	1605.9	1373.6	1113.3	930.9	831.2	776.0	742.8	720.9	724.9
17.5°	1804.0	1753.7	1552.1	1237.5	957.6	815.8	734.5	701.2	694.7	692.0	693.8
20°	1839.5	1762.9	1481.2	1085.3	843.0	724.0	682.0	678.9	678.5	677.2	681.5
22.5°	1877.5	1773.9	1387.6	947.1	745.4	666.7	659.2	653.1	649.2	648.7	653.6
25°	1922.6	1777.4	1270.4	833.8	662.3	639.6	630.8	621.6	619.0	619.0	621.6
27.5°	1966.3	1765.5	1133.9	735.4	615.5	614.6	603.2	600.2	599.7	601.1	604.6
30°	2010.1	1743.2	998.3	644.4	588.4	588.4	584.4	586.6	588.4	592.7	595.8
32.5°	2069.1	1719.6	885.0	577.0	564.7	560.4	564.3	568.7	570.4	576.1	580.9
35°	2155.8	1703.0	794.8	540.3	540.3	534.6	536.8	535.9	531.9	529.3	535.4
37.5°	2270.4	1702.1	720.5	523.2	519.7	518.8	519.3	513.6	498.3	479.9	480.3
40°	2408.2	1725.7	663.2	511.4	508.8	514.0	511.4	496.1	454.1	422.1	421.3
42.5°	2593.2	1793.1	626.4	496.9	504.8	511.4	500.9	447.9	419.5	398.1	397.2
45°	2811.1	1902.5	607.6	481.6	497.4	505.3	454.5	431.3	408.6	382.8	381.0
47.5°	3057.8	2040.3	603.2	467.2	480.8	485.6	434.8	424.3	398.5	370.5	368.3
50°	3326.4	2203.4	615.1	450.1	456.7	440.1	428.3	418.6	392.0	364.4	361.3
52.5°	3604.2	2383.2	638.7	427.0	432.6	414.3	425.6	417.3	388.0	350.8	348.2
55°	3877.1	2564.3	661.4	399.8	408.1	391.1	418.2	412.1	370.1	328.1	325.9
57.5°	4154.5	2744.6	683.7	375.8	384.5	368.8	406.4	398.1	350.0	307.1	306.2
60°	4442.7	2919.5	694.2	352.6	358.7	348.2	388.5	374.0	327.2	285.7	284.3
62.5°	4712.7	3065.2	677.2	329.4	333.3	329.0	364.8	345.6	304.5	261.6	261.2
65°	4983.4	3151.8	624.7	306.7	307.5	305.3	331.6	315.0	277.8	240.6	238.0
67.5°	5228.8	3200.4	541.1	282.2	280.0	279.1	300.5	281.7	252.0	219.6	217.0
70°	5280.9	3077.0	413.4	253.3	253.3	251.1	266.4	247.2	223.5	197.3	196.4
72.5°	4823.3	2588.4	293.5	220.5	224.0	219.6	232.3	216.1	194.7	177.2	171.9
75°	3889.4	1898.1	213.5	186.8	192.9	185.5	197.3	185.9	167.5	167.1	150.5
77.5°	2672.4	1173.7	154.9	154.0	158.4	148.7	162.3	156.2	139.5	132.1	123.8
80°	1140.4	468.1	112.9	119.0	119.0	110.2	126.0	127.7	113.3	109.8	109.8
82.5°	227.0	133.0	79.2	81.8	77.0	74.4	89.2	98.9	136.5	151.8	152.2
85°	68.2	49.0	47.7	44.6	39.4	39.8	52.5	99.3	122.5	70.0	60.4
87.5°	18.8	12.2	12.7	10.1	8.3	10.9	17.9	75.2	41.1	17.5	14.9
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)