

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: P939742

Luminaire Tested: **GALN-SB2C-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939742
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2C-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13770 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 100.9
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



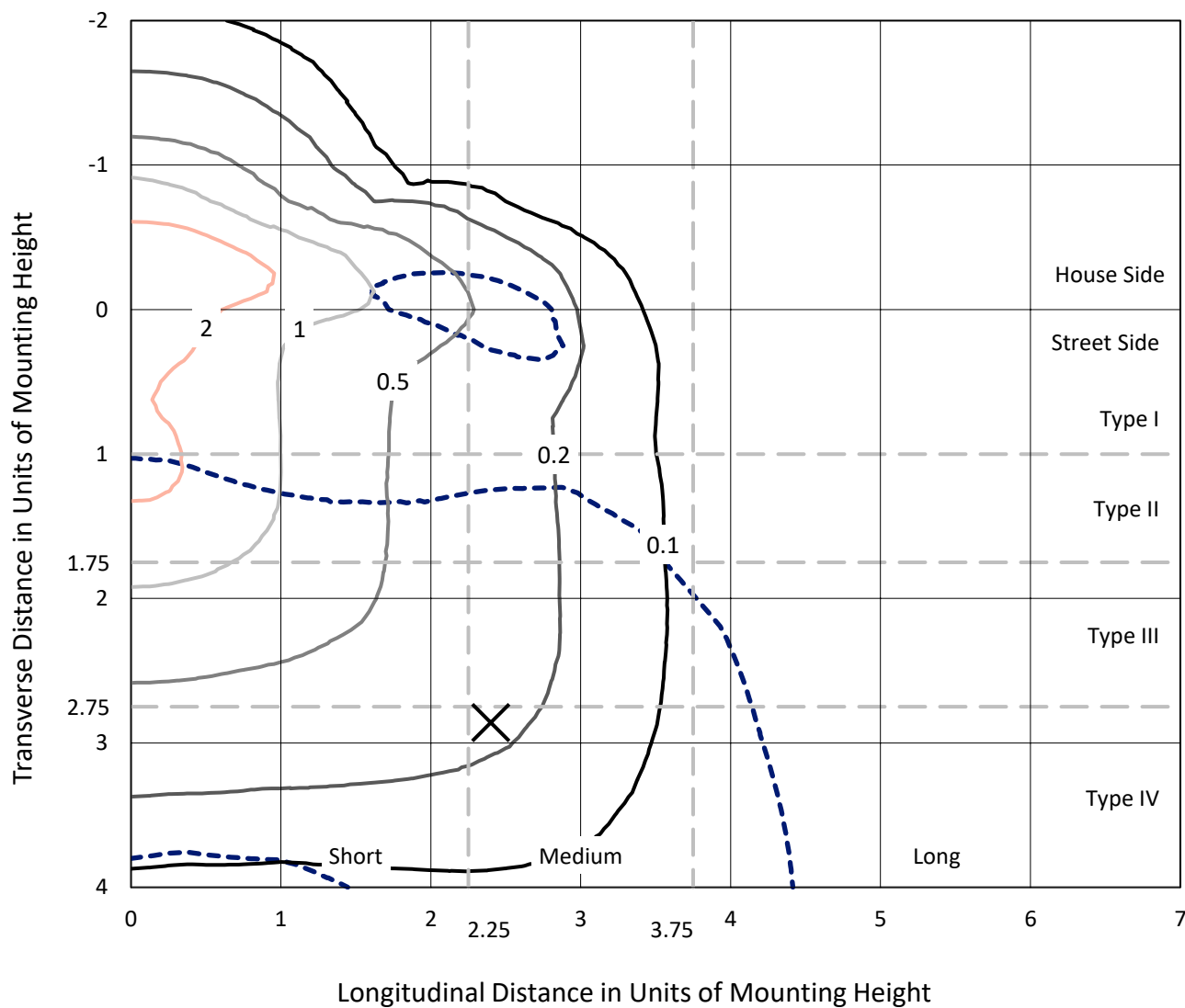
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

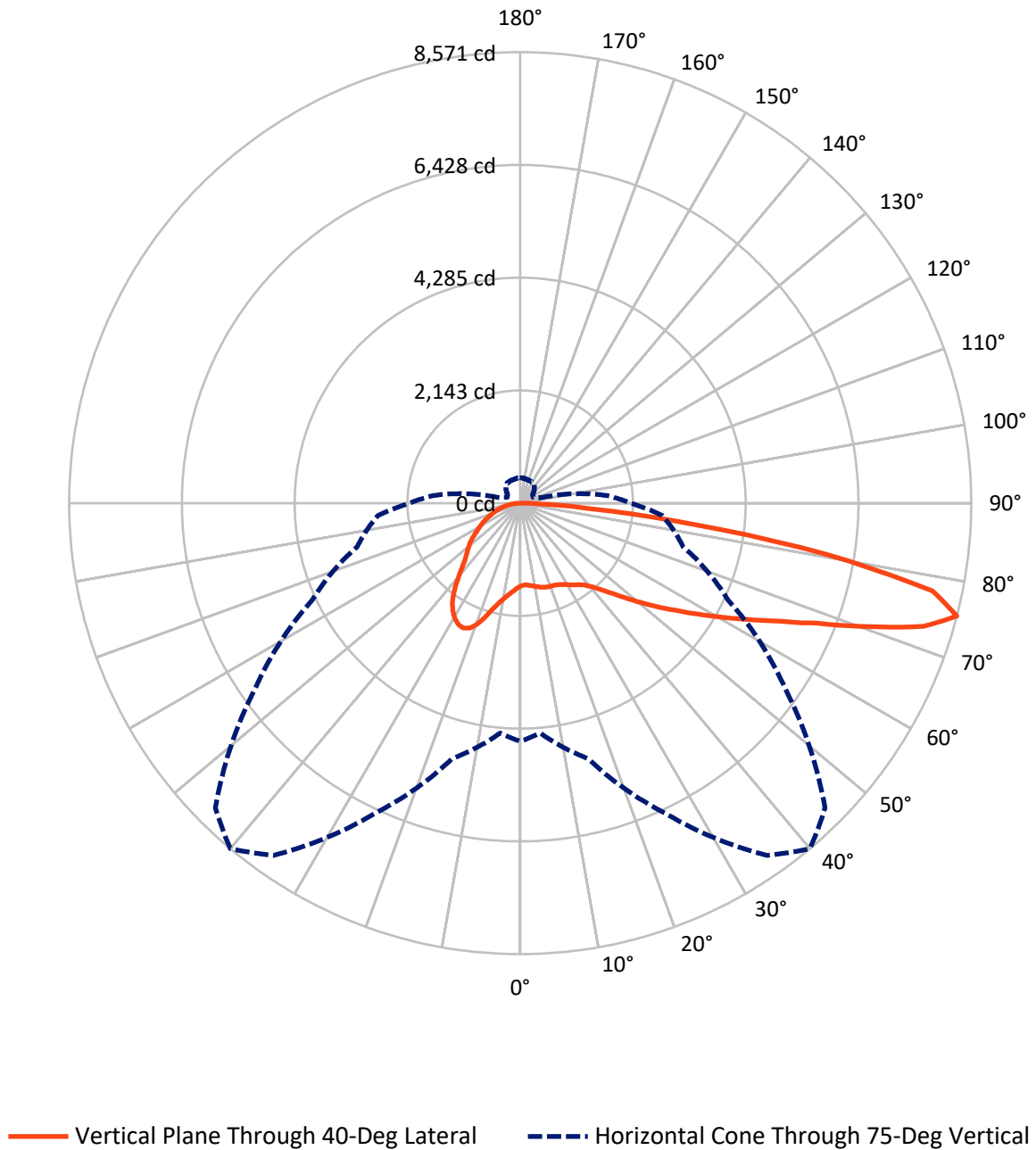


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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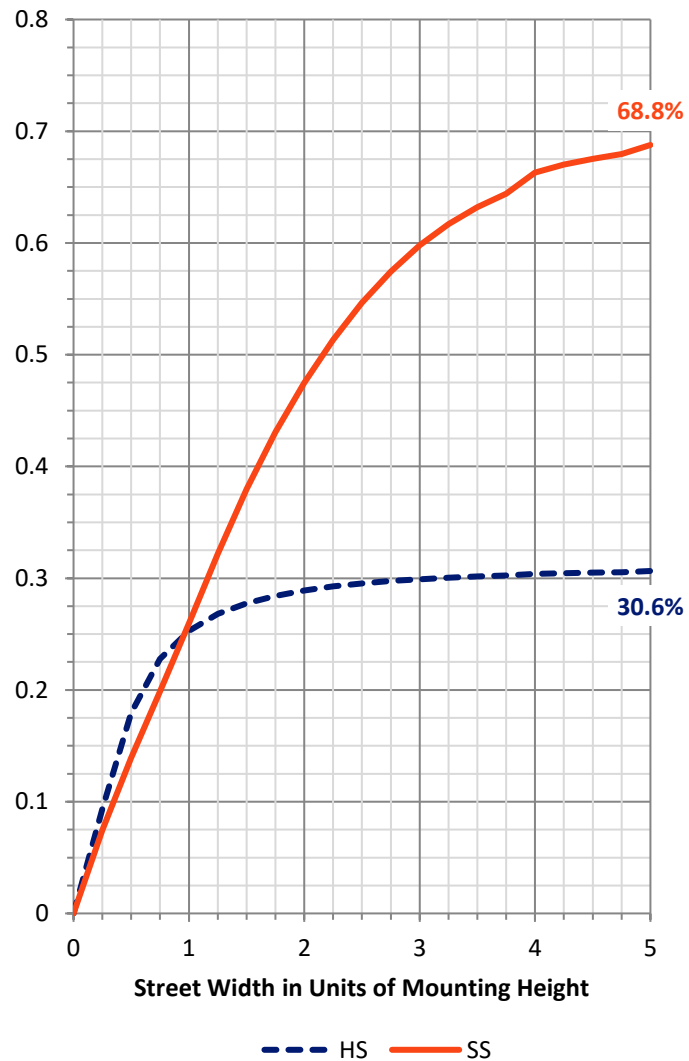
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4266.4	0.0	4266.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	9503.6	0.0	9503.6
	% Fixture	69.0	0.0	69.0
Total	Lumens	13770.0	0.0	13770.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.2	1.1
10°-20°	527.7	3.8
20°-30°	963.6	7.0
30°-40°	1366.6	9.9
40°-50°	1845.3	13.4
50°-60°	2482.5	18.0
60°-70°	3150.8	22.9
70°-80°	2859.5	20.8
80°-90°	416.8	3.0
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°	13770.0	100.0
0°-180°	13770.0	100.0

Coefficient of Utilization



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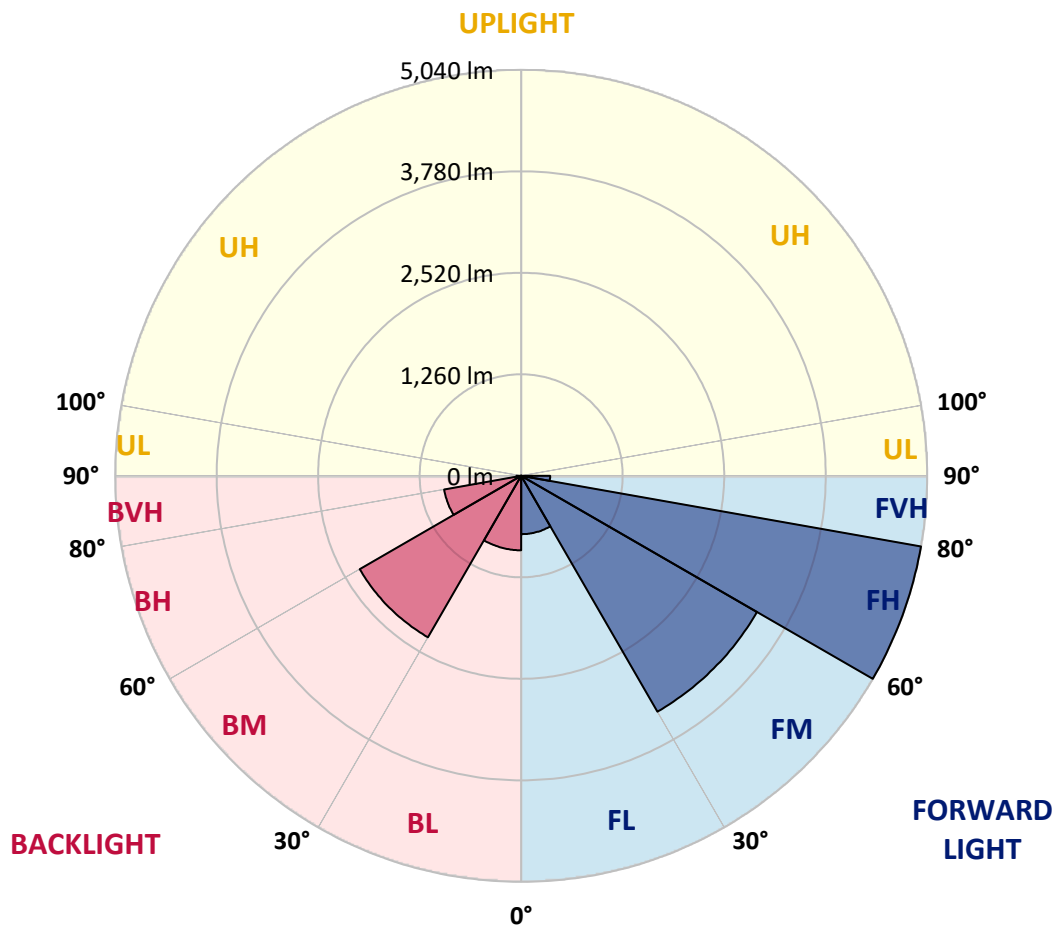
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	724.3	5.3			
FM	(30°-60°)	3380.2	24.5			
FH	(60°-80°)	5039.6	36.6			G3/7500
FVH	(80°-90°)	359.4	2.6			G3/500
BL	(0°-30°)	924.1	6.7	B2/1000		
BM	(30°-60°)	2314.1	16.8	B2/2500		
BH	(60°-80°)	970.7	7.0	B2/1000		G2/1000
BVH	(80°-90°)	57.4	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6
2.5°	1550.5	1559.3	1557.1	1554.2	1554.2	1554.9	1554.2	1559.3	1564.4	1569.5	1577.5
5°	1566.6	1575.3	1571.0	1567.3	1564.4	1563.7	1561.5	1560.7	1563.7	1570.2	1581.2
7.5°	1598.0	1606.8	1600.2	1593.6	1587.8	1584.8	1581.9	1577.5	1575.3	1579.0	1594.3
10°	1633.0	1641.8	1633.8	1622.1	1612.6	1608.9	1606.0	1601.6	1598.7	1600.9	1617.7
12.5°	1668.1	1676.9	1665.9	1649.8	1637.4	1635.2	1631.6	1630.1	1629.4	1628.7	1645.5
15°	1701.0	1708.3	1694.4	1675.4	1662.3	1658.6	1655.0	1657.1	1660.8	1665.2	1684.2
17.5°	1726.5	1733.8	1713.4	1688.6	1676.1	1674.7	1672.5	1679.8	1690.0	1701.0	1724.3
20°	1749.9	1757.2	1730.9	1697.3	1682.7	1682.7	1683.4	1698.8	1713.4	1729.5	1761.6
22.5°	1782.8	1788.6	1756.5	1710.5	1689.3	1690.7	1696.6	1711.9	1730.2	1752.1	1796.6
25°	1831.7	1836.1	1796.6	1735.3	1711.2	1715.6	1720.7	1728.0	1745.5	1771.1	1831.0
27.5°	1910.6	1914.2	1862.4	1779.1	1742.6	1749.9	1757.2	1752.1	1760.1	1782.0	1858.7
30°	2021.6	2023.8	1958.0	1847.8	1795.9	1799.6	1801.0	1779.8	1764.5	1782.0	1878.4
32.5°	2153.0	2152.3	2074.2	1931.0	1856.5	1852.9	1840.5	1798.8	1763.0	1778.4	1896.0
35°	2356.8	2348.8	2248.0	2047.9	1925.2	1902.5	1873.3	1820.0	1770.3	1774.7	1911.3
37.5°	2694.2	2669.4	2529.9	2239.2	2027.4	1969.7	1926.6	1854.3	1786.4	1773.3	1929.6
40°	3074.7	3043.3	2890.0	2501.4	2180.8	2088.0	2018.7	1903.3	1812.7	1779.8	1956.6
42.5°	3526.1	3481.5	3316.5	2810.4	2375.1	2240.7	2136.3	1965.4	1851.4	1801.0	1993.1
45°	4080.4	4021.3	3787.6	3158.7	2619.7	2440.8	2301.3	2059.6	1910.6	1841.9	2047.9
47.5°	4640.6	4655.2	4322.9	3557.5	2913.3	2687.7	2508.0	2201.3	1996.8	1907.7	2136.3
50°	5235.8	5246.0	4855.3	3999.4	3246.4	2966.7	2740.2	2359.7	2116.5	2001.1	2268.4
52.5°	5700.3	5701.8	5338.8	4461.7	3593.3	3273.4	2990.8	2540.9	2255.3	2125.3	2444.5
55°	5991.0	5987.3	5677.7	4899.1	3992.1	3595.5	3268.3	2746.8	2424.7	2271.4	2665.7
57.5°	6202.1	6191.1	5911.4	5275.3	4417.1	3976.0	3582.3	2980.5	2624.8	2445.2	2957.2
60°	6282.4	6275.8	6069.9	5600.3	4864.1	4396.7	3944.6	3242.0	2852.0	2650.4	3331.8
62.5°	6313.1	6325.5	6225.4	5915.0	5342.5	4862.6	4342.6	3554.6	3107.6	2882.7	3726.9
65°	6421.2	6443.8	6423.4	6327.0	5882.9	5408.2	4870.7	3926.3	3386.6	3131.7	4139.6
67.5°	6635.2	6657.8	6666.6	6819.9	6543.1	6088.1	5529.4	4389.4	3713.1	3390.2	4450.0
70°	6630.0	6623.5	6778.3	7212.1	7369.9	7029.5	6417.5	4959.0	4102.3	3605.0	4489.4
72.5°	6034.8	5982.2	6348.1	7207.7	8057.9	8012.6	7502.1	5693.7	4438.3	3631.3	3895.6
75°	4527.4	4387.2	5033.5	6495.7	8172.5	8570.6	8191.5	6149.5	4358.7	3208.4	2711.0
77.5°	1936.1	1795.2	2556.9	4808.6	7314.4	8011.9	7559.0	5365.1	3479.4	2121.6	1331.4
80°	506.9	506.1	772.7	2180.1	4974.4	5916.5	5190.5	3464.7	1988.0	758.1	367.4
82.5°	209.6	204.5	284.1	847.9	2430.6	3320.1	2709.6	1545.4	717.9	205.2	122.0
85°	78.1	77.4	138.0	292.9	857.4	1369.4	991.1	395.1	178.9	100.1	54.8
87.5°	21.9	21.2	29.9	101.5	208.9	317.0	169.4	65.0	50.4	39.4	16.1
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°	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6	1574.6
2.5°	1579.7	1583.4	1590.0	1595.1	1601.6	1608.9	1619.2	1625.7	1632.3	1636.7	1633.8
5°	1586.3	1594.3	1611.1	1627.9	1647.7	1665.9	1687.1	1702.4	1714.8	1718.5	1720.0
7.5°	1600.9	1614.1	1642.5	1671.0	1702.4	1732.4	1763.0	1789.3	1810.5	1818.6	1819.3
10°	1626.5	1644.0	1684.2	1724.3	1766.0	1812.0	1851.4	1889.4	1919.3	1931.8	1932.5
12.5°	1658.6	1680.5	1733.1	1788.6	1846.3	1909.8	1961.0	2007.7	2045.0	2061.8	2061.8
15°	1700.2	1728.7	1795.9	1870.4	1955.1	2043.5	2108.5	2160.4	2202.0	2222.4	2221.0
17.5°	1745.5	1783.5	1868.2	1980.7	2101.9	2218.0	2294.0	2332.0	2375.1	2394.8	2394.1
20°	1789.3	1836.1	1957.3	2120.9	2282.3	2405.7	2467.1	2477.3	2480.2	2482.4	2488.3
22.5°	1834.6	1897.4	2069.1	2297.7	2470.7	2556.2	2565.0	2521.1	2459.8	2431.3	2439.3
25°	1884.3	1967.5	2215.1	2492.7	2632.9	2643.1	2575.9	2469.3	2353.2	2299.8	2307.9
27.5°	1932.5	2048.6	2390.4	2678.9	2749.7	2659.9	2515.3	2364.1	2223.9	2167.7	2174.2
30°	1980.7	2141.4	2584.0	2841.8	2803.1	2618.3	2419.6	2250.9	2110.0	2050.8	2057.4
32.5°	2029.6	2249.5	2806.7	2959.3	2793.6	2529.9	2300.6	2123.8	1999.7	1937.6	1945.6
35°	2085.1	2382.4	3017.8	3023.6	2730.0	2399.9	2143.6	1971.9	1863.8	1814.2	1825.1
37.5°	2157.4	2551.1	3204.0	3039.7	2619.0	2209.3	1948.6	1792.3	1703.2	1680.5	1696.6
40°	2247.3	2754.1	3346.4	3014.1	2454.7	1977.8	1735.3	1610.4	1560.0	1565.1	1582.7
42.5°	2364.1	2981.3	3446.5	2948.4	2226.1	1738.9	1548.3	1492.8	1516.9	1537.4	1556.4
45°	2516.0	3217.2	3508.6	2836.6	1967.5	1536.6	1438.0	1451.2	1469.4	1471.6	1486.2
47.5°	2710.3	3456.0	3549.5	2667.9	1703.9	1394.2	1367.9	1370.9	1367.2	1351.9	1363.5
50°	2952.8	3688.2	3586.0	2444.5	1479.7	1305.1	1270.1	1259.8	1209.4	1159.8	1166.4
52.5°	3228.8	3901.5	3601.3	2166.9	1305.1	1230.6	1173.7	1109.4	1015.2	999.8	1005.0
55°	3535.6	4098.7	3561.9	1825.9	1158.3	1135.0	1048.8	971.4	961.1	948.0	950.2
57.5°	3902.2	4311.2	3481.5	1445.3	1007.9	1023.2	939.2	948.0	929.7	909.3	905.6
60°	4303.2	4531.0	3340.6	1098.4	852.3	883.7	910.7	910.0	904.9	888.1	882.3
62.5°	4664.0	4675.7	3063.1	841.4	715.7	775.6	849.4	848.7	844.3	834.8	831.1
65°	4878.7	4653.7	2600.0	662.4	603.3	686.5	766.1	772.0	772.7	772.0	772.0
67.5°	4840.7	4397.4	1964.6	527.3	510.5	596.0	683.6	691.6	697.5	698.9	700.4
70°	4411.3	3834.3	1281.0	420.7	428.0	516.4	605.5	613.5	618.6	624.4	627.4
72.5°	3438.5	2819.1	733.3	340.3	355.7	447.7	528.0	537.5	540.5	551.4	555.8
75°	2095.4	1657.9	395.8	268.0	292.1	382.7	451.4	462.3	467.4	480.6	482.0
77.5°	996.2	717.9	225.7	208.9	235.2	312.6	381.2	393.7	379.8	387.1	381.2
80°	336.7	266.6	142.4	159.2	179.7	243.9	305.3	317.7	288.5	287.0	284.1
82.5°	117.6	108.1	90.6	105.9	116.1	174.6	230.8	246.9	214.7	214.0	203.8
85°	46.0	43.8	50.4	57.7	69.4	107.4	151.9	159.9	132.2	106.6	105.2
87.5°	9.5	10.2	12.4	13.1	21.2	37.2	54.8	67.2	53.3	45.3	41.6
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)