

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: LUMARK

Report Number: P963633

Luminaire Tested: **NAV-SB3A-827-U-SLL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-827-U-SLL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND SPILL LIGHT
ELIMINATOR LEFT OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11952.5 lumens
Efficiency: N/A
Efficacy: 141.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 84.7
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



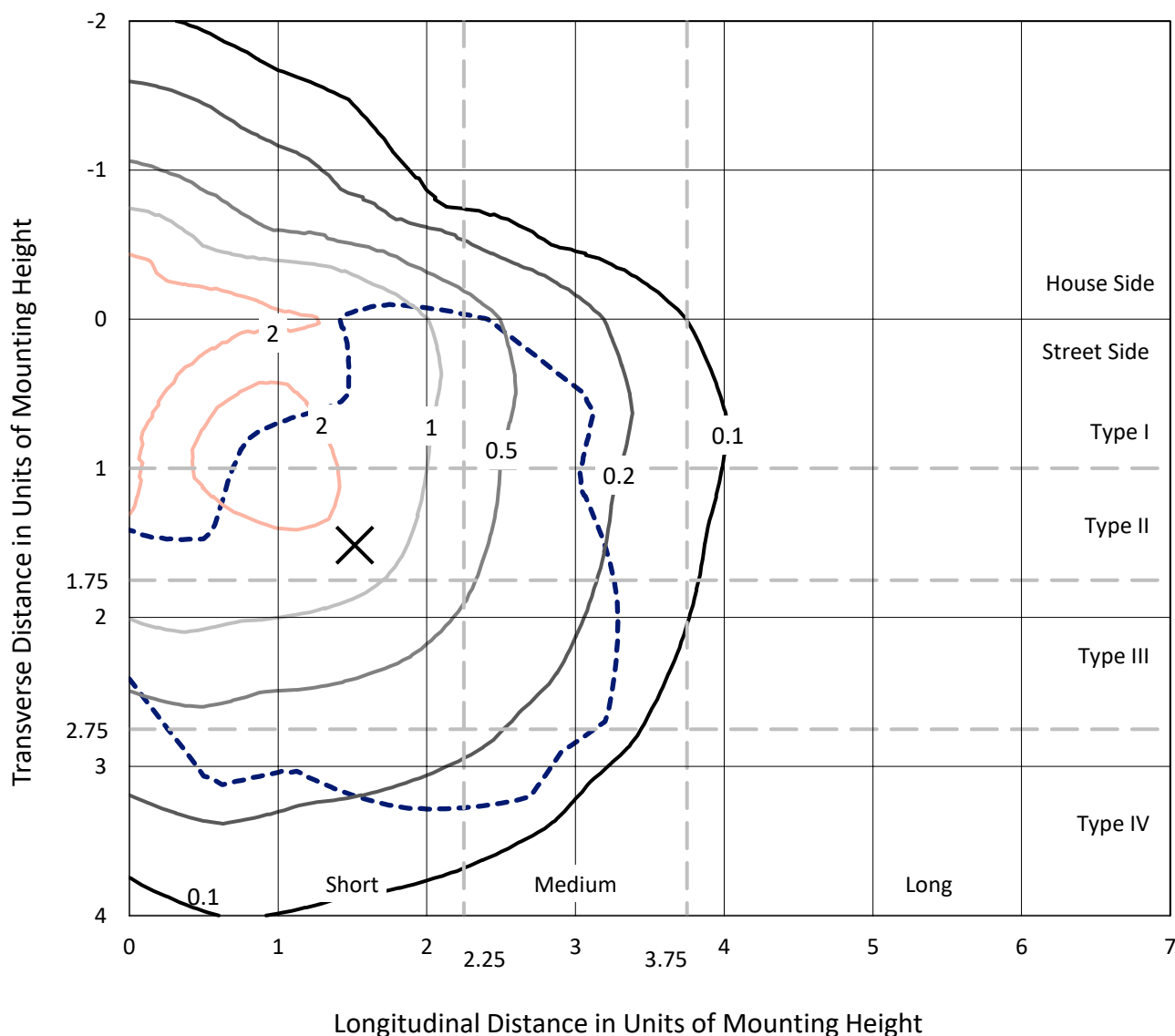
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

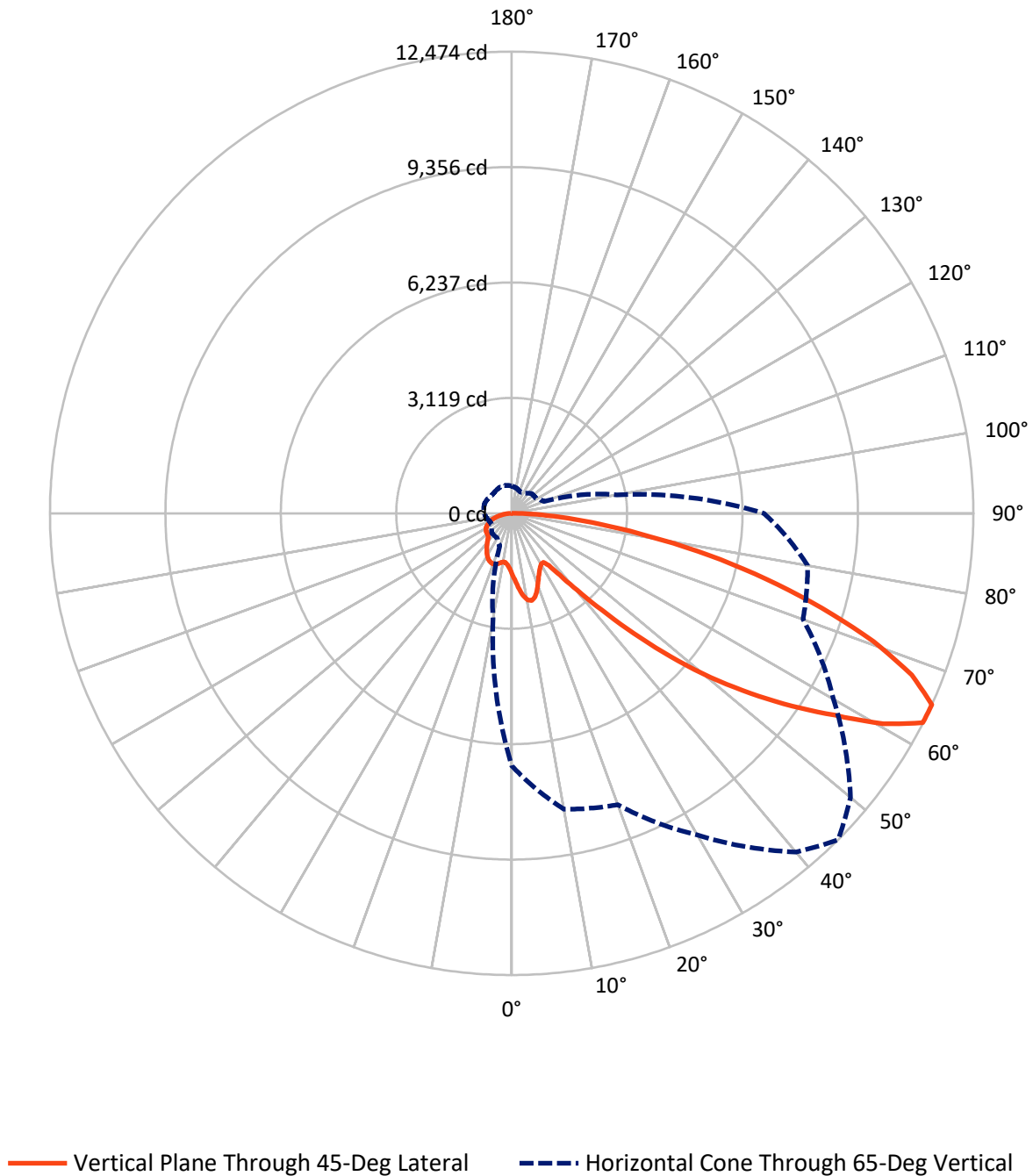


Based on 25 foot mounting height. Maximum calculated value = 3.6 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3037.7	0.0	3037.7
	% Fixture	25.4	0.0	25.4
Street Side	Lumens	8914.8	0.0	8914.8
	% Fixture	74.6	0.0	74.6
Total	Lumens	11952.5	0.0	11952.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.0	1.4
10°-20°	511.8	4.3
20°-30°	790.6	6.6
30°-40°	1001.9	8.4
40°-50°	1511.1	12.6
50°-60°	2441.4	20.4
60°-70°	3043.5	25.5
70°-80°	1995.8	16.7
80°-90°	493.4	4.1
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°	11952.5	100.0
0°-180°	11952.5	100.0

Coefficient of Utilization



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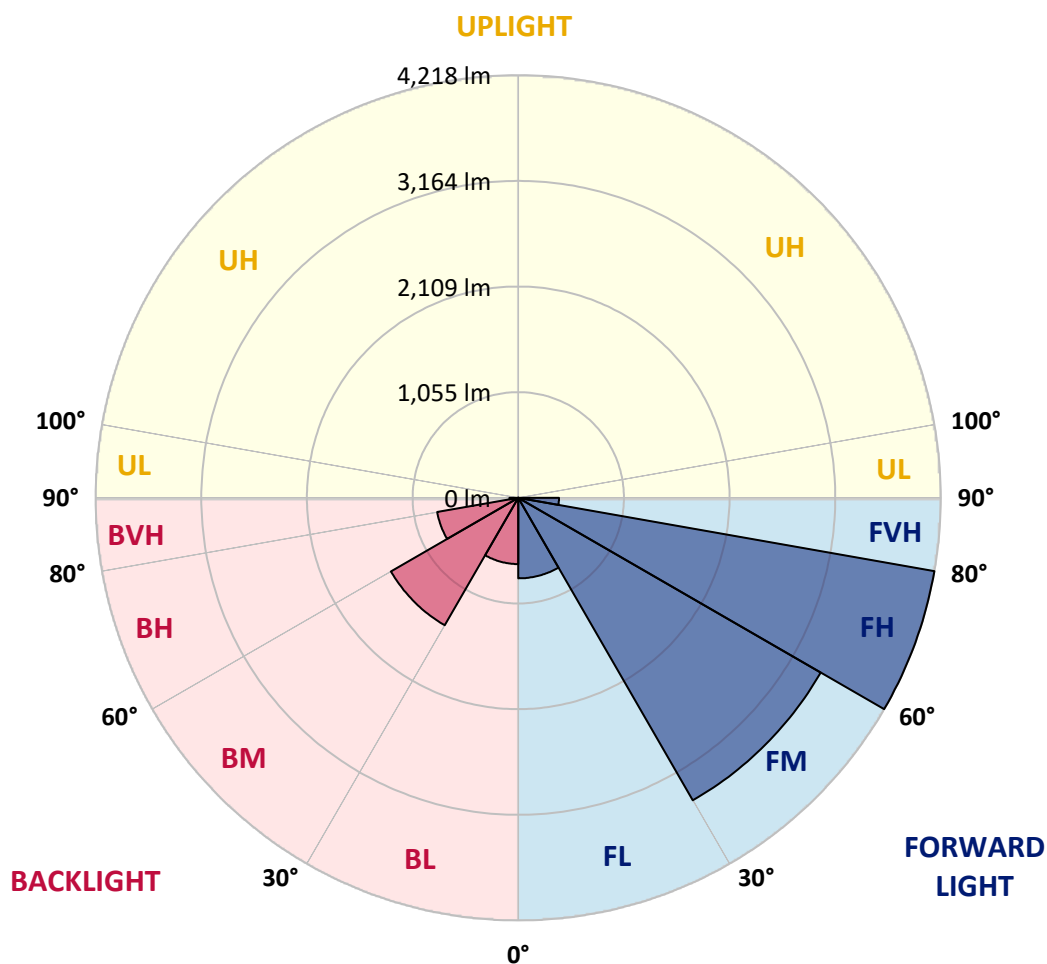
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	803.9	6.7			
FM	(30°-60°)	3486.3	29.2			
FH	(60°-80°)	4218.1	35.3			G2/5000
FVH	(80°-90°)	406.5	3.4			G3/500
BL	(0°-30°)	661.5	5.5	B2/1000		
BM	(30°-60°)	1468.0	12.3	B2/2500		
BH	(60°-80°)	821.3	6.9	B2/1000		G2/1000
BVH	(80°-90°)	87.0	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1767.5	1774.2	1780.9	1790.5	1800.0	1805.6	1811.4	1814.1	1817.0	1815.8	1817.0
5°	1900.6	1924.0	1947.4	1970.7	1993.9	2006.5	2019.1	2026.7	2034.5	2040.3	2034.5
7.5°	2034.3	2072.3	2110.4	2144.6	2178.9	2199.5	2220.1	2231.3	2242.4	2247.8	2242.4
10°	2136.8	2181.8	2226.8	2267.0	2307.2	2331.6	2355.8	2366.6	2377.4	2381.5	2377.4
12.5°	2199.5	2248.3	2297.1	2333.4	2369.6	2387.3	2405.0	2410.9	2416.8	2417.5	2416.8
15°	2237.7	2279.8	2321.8	2344.7	2367.4	2368.2	2368.8	2362.4	2356.2	2348.7	2356.2
17.5°	2259.1	2287.6	2316.0	2316.5	2316.8	2291.3	2265.8	2242.4	2218.9	2202.3	2218.9
20°	2282.8	2292.7	2302.7	2272.7	2242.7	2186.3	2130.0	2089.0	2047.8	2022.6	2047.8
22.5°	2310.2	2297.2	2284.2	2222.2	2160.1	2077.2	1994.2	1942.9	1891.5	1863.7	1891.5
25°	2345.5	2304.5	2263.5	2169.3	2075.1	1974.4	1873.7	1819.7	1765.8	1739.4	1765.8
27.5°	2393.5	2320.2	2246.8	2122.1	1997.3	1885.6	1774.0	1720.9	1667.9	1643.0	1667.9
30°	2458.2	2348.8	2239.6	2086.0	1932.3	1816.0	1699.8	1650.5	1601.2	1578.0	1601.2
32.5°	2534.4	2384.8	2235.1	2061.4	1887.5	1778.3	1668.9	1630.3	1591.5	1574.8	1591.5
35°	2627.2	2444.0	2260.8	2079.7	1898.7	1822.8	1746.9	1737.9	1728.9	1727.4	1728.9
37.5°	2783.2	2567.8	2352.4	2187.8	2023.1	2018.2	2013.3	2054.5	2095.8	2117.2	2095.8
40°	3019.1	2784.8	2550.5	2428.1	2305.6	2392.0	2478.4	2578.8	2679.0	2729.0	2679.0
42.5°	3332.0	3099.5	2867.0	2796.5	2726.0	2914.4	3102.9	3285.2	3467.7	3574.8	3467.7
45°	3718.2	3509.4	3300.5	3269.4	3238.3	3540.1	3842.1	4141.8	4441.6	4623.6	4441.6
47.5°	4201.4	3998.2	3795.0	3788.7	3782.4	4217.9	4653.4	5092.1	5530.8	5788.5	5530.8
50°	4834.5	4583.6	4332.7	4333.8	4334.8	4896.1	5457.5	6036.6	6615.8	6966.0	6615.8
52.5°	5561.4	5257.5	4953.7	4923.1	4892.2	5562.8	6233.2	6949.8	7666.4	8086.0	7666.4
55°	6335.3	6035.1	5734.9	5615.1	5495.3	6241.5	6987.7	7842.0	8696.2	9195.5	8696.2
57.5°	7039.1	6875.6	6712.1	6471.8	6231.7	6985.2	7738.6	8706.2	9673.8	10292.8	9673.8
60°	7464.6	7718.5	7972.4	7674.1	7375.8	8088.8	8801.9	9837.8	10873.8	11542.8	10873.8
62.5°	7248.5	7942.3	8636.1	8602.5	8568.9	9222.0	9875.4	10861.0	11846.5	12464.9	11846.5
65°	6816.1	7467.3	8118.5	8247.4	8376.2	9206.2	10036.5	10992.2	11947.9	12474.4	11947.9
67.5°	6236.9	6856.2	7475.5	7536.0	7596.4	8461.3	9326.2	10286.0	11245.8	11658.2	11245.8
70°	5540.9	6214.6	6888.3	6915.3	6942.3	7715.8	8489.2	9315.2	10141.1	10370.4	10141.1
72.5°	4711.5	5484.6	6257.7	6277.1	6296.5	6901.6	7506.8	8125.4	8744.0	8767.2	8744.0
75°	3662.4	4462.5	5262.6	5334.4	5406.3	5877.0	6347.9	6783.3	7218.9	7102.2	7218.9
77.5°	2616.7	3363.6	4110.6	4213.4	4316.1	4674.0	5031.9	5340.8	5649.7	5449.1	5649.7
80°	1712.7	2341.0	2969.3	3097.0	3224.9	3495.1	3765.3	3927.6	4089.7	3767.1	4089.7
82.5°	995.6	1425.1	1854.7	1997.4	2140.2	2326.3	2512.4	2580.0	2647.7	2394.1	2647.7
85°	438.0	666.0	894.0	1015.4	1136.8	1289.7	1442.5	1480.9	1519.4	1316.2	1519.4
87.5°	135.6	212.3	288.8	356.6	424.4	500.8	577.2	580.5	583.7	490.1	583.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1814.1	1811.4	1805.6	1800.0	1790.5	1780.9	1774.2	1767.5	1754.0	1740.3	1725.9
5°	2026.7	2019.1	2006.5	1993.9	1970.7	1947.4	1924.0	1900.6	1870.6	1840.7	1810.8
7.5°	2231.3	2220.1	2199.5	2178.9	2144.6	2110.4	2072.3	2034.3	1984.8	1935.5	1889.8
10°	2366.6	2355.8	2331.6	2307.2	2267.0	2226.8	2181.8	2136.8	2074.3	2011.8	1951.4
12.5°	2410.9	2405.0	2387.3	2369.6	2333.4	2297.1	2248.3	2199.5	2130.9	2062.2	1993.8
15°	2362.4	2368.8	2368.2	2367.4	2344.7	2321.8	2279.8	2237.7	2166.1	2094.5	2020.4
17.5°	2242.4	2265.8	2291.3	2316.8	2316.5	2316.0	2287.6	2259.1	2186.5	2114.0	2033.0
20°	2089.0	2130.0	2186.3	2242.7	2272.7	2302.7	2292.7	2282.8	2207.3	2131.9	2042.9
22.5°	1942.9	1994.2	2077.2	2160.1	2222.2	2284.2	2297.2	2310.2	2233.2	2156.0	2056.3
25°	1819.7	1873.7	1974.4	2075.1	2169.3	2263.5	2304.5	2345.5	2270.0	2194.5	2080.5
27.5°	1720.9	1774.0	1885.6	1997.3	2122.1	2246.8	2320.2	2393.5	2321.4	2249.4	2118.4
30°	1650.5	1699.8	1816.0	1932.3	2086.0	2239.6	2348.8	2458.2	2388.5	2319.0	2167.4
32.5°	1630.3	1668.9	1778.3	1887.5	2061.4	2235.1	2384.8	2534.4	2465.5	2396.7	2218.5
35°	1737.9	1746.9	1822.8	1898.7	2079.7	2260.8	2444.0	2627.2	2561.2	2495.2	2276.8
37.5°	2054.5	2013.3	2018.2	2023.1	2187.8	2352.4	2567.8	2783.2	2699.1	2615.0	2342.0
40°	2578.8	2478.4	2392.0	2305.6	2428.1	2550.5	2784.8	3019.1	2896.5	2773.9	2424.9
42.5°	3285.2	3102.9	2914.4	2726.0	2796.5	2867.0	3099.5	3332.0	3155.0	2978.0	2533.4
45°	4141.8	3842.1	3540.1	3238.3	3269.4	3300.5	3509.4	3718.2	3479.5	3240.8	2676.0
47.5°	5092.1	4653.4	4217.9	3782.4	3788.7	3795.0	3998.2	4201.4	3865.4	3529.4	2828.0
50°	6036.6	5457.5	4896.1	4334.8	4333.8	4332.7	4583.6	4834.5	4328.1	3821.5	2969.0
52.5°	6949.8	6233.2	5562.8	4892.2	4923.1	4953.7	5257.5	5561.4	4814.0	4066.7	3060.6
55°	7842.0	6987.7	6241.5	5495.3	5615.1	5734.9	6035.1	6335.3	5244.9	4154.6	3040.5
57.5°	8706.2	7738.6	6985.2	6231.7	6471.8	6712.1	6875.6	7039.1	5550.3	4061.5	2898.4
60°	9837.8	8801.9	8088.8	7375.8	7674.1	7972.4	7718.5	7464.6	5626.6	3788.7	2634.0
62.5°	10861.0	9875.4	9222.0	8568.9	8602.5	8636.1	7942.3	7248.5	5305.3	3362.1	2276.6
65°	10992.2	10036.5	9206.2	8376.2	8247.4	8118.5	7467.3	6816.1	4850.6	2885.1	1912.0
67.5°	10286.0	9326.2	8461.3	7596.4	7536.0	7475.5	6856.2	6236.9	4309.5	2382.2	1554.8
70°	9315.2	8489.2	7715.8	6942.3	6915.3	6888.3	6214.6	5540.9	3719.2	1897.4	1224.2
72.5°	8125.4	7506.8	6901.6	6296.5	6277.1	6257.7	5484.6	4711.5	3079.1	1446.8	935.9
75°	6783.3	6347.9	5877.0	5406.3	5334.4	5262.6	4462.5	3662.4	2345.5	1028.5	679.3
77.5°	5340.8	5031.9	4674.0	4316.1	4213.4	4110.6	3363.6	2616.7	1641.6	666.6	460.3
80°	3927.6	3765.3	3495.1	3224.9	3097.0	2969.3	2341.0	1712.7	1057.7	402.7	296.5
82.5°	2580.0	2512.4	2326.3	2140.2	1997.4	1854.7	1425.1	995.6	612.1	228.8	182.3
85°	1480.9	1442.5	1289.7	1136.8	1015.4	894.0	666.0	438.0	275.3	112.7	97.5
87.5°	580.5	577.2	500.8	424.4	356.6	288.8	212.3	135.6	90.2	44.8	40.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1711.5	1697.1	1682.5	1668.7	1654.8	1641.3	1626.5	1614.3	1602.3	1591.3	1580.6
5°	1780.9	1750.9	1720.9	1692.8	1664.7	1638.3	1612.0	1589.2	1566.3	1547.1	1528.1
7.5°	1844.2	1799.7	1755.2	1716.1	1676.9	1640.7	1606.9	1576.4	1546.1	1520.9	1495.7
10°	1891.1	1837.1	1783.1	1736.8	1690.3	1645.7	1609.4	1577.4	1545.3	1520.1	1494.9
12.5°	1925.5	1861.8	1798.1	1745.7	1693.3	1646.5	1612.5	1586.3	1560.2	1543.4	1526.7
15°	1946.2	1872.9	1799.5	1738.8	1678.1	1626.3	1599.1	1586.6	1574.1	1576.3	1578.6
17.5°	1952.1	1866.9	1781.9	1708.9	1635.9	1574.8	1558.1	1562.7	1567.2	1594.8	1622.3
20°	1954.0	1850.8	1747.6	1657.2	1566.7	1495.7	1491.3	1512.7	1534.1	1581.9	1629.7
22.5°	1956.5	1831.1	1705.5	1596.5	1487.7	1406.7	1415.4	1447.1	1478.9	1533.3	1587.9
25°	1966.5	1811.5	1656.5	1528.9	1401.4	1318.5	1341.8	1378.4	1414.9	1463.9	1513.0
27.5°	1987.3	1798.4	1609.6	1467.1	1324.6	1249.1	1277.5	1312.8	1348.1	1388.4	1428.6
30°	2015.8	1792.3	1568.7	1415.3	1262.0	1198.6	1220.9	1248.9	1277.0	1310.5	1343.9
32.5°	2040.4	1784.7	1528.9	1370.7	1212.5	1161.4	1171.3	1187.9	1204.5	1231.1	1257.9
35°	2058.4	1770.5	1482.7	1326.9	1171.2	1128.6	1124.5	1129.0	1133.6	1154.0	1174.3
37.5°	2069.2	1746.1	1423.0	1275.3	1127.7	1090.5	1075.4	1070.4	1065.4	1080.0	1094.6
40°	2075.9	1712.5	1349.0	1213.8	1078.5	1044.8	1021.7	1010.3	998.9	1009.4	1020.0
42.5°	2088.7	1677.7	1266.9	1145.8	1024.7	993.6	964.6	949.5	934.4	942.9	951.6
45°	2111.2	1645.5	1179.9	1073.7	967.5	935.9	907.8	893.1	878.4	885.6	893.0
47.5°	2126.7	1618.9	1111.1	1016.6	922.1	881.4	857.2	844.9	832.5	839.3	846.0
50°	2116.6	1589.9	1063.2	978.7	894.2	840.7	812.6	801.7	790.8	801.3	812.0
52.5°	2054.5	1540.9	1027.4	953.8	880.2	818.7	779.4	768.5	757.8	773.8	789.7
55°	1926.1	1459.7	993.2	935.6	878.0	820.8	761.8	744.6	727.5	750.1	772.7
57.5°	1735.3	1345.1	954.9	914.2	873.5	823.1	751.1	726.2	701.2	725.5	749.9
60°	1479.5	1196.4	913.4	881.4	849.4	816.1	741.2	708.8	676.4	697.8	719.1
62.5°	1191.3	1018.4	845.6	824.4	803.2	799.1	729.6	689.1	648.6	662.3	675.8
65°	939.0	858.3	777.7	767.6	757.6	758.1	705.1	662.0	619.0	624.2	629.5
67.5°	727.3	704.4	681.4	687.1	692.6	691.3	661.4	625.7	589.8	588.1	586.5
70°	550.9	557.5	564.0	590.0	615.8	615.8	606.1	580.7	555.1	549.5	543.8
72.5°	425.0	444.7	464.5	501.3	538.1	544.3	544.4	527.0	509.4	501.1	492.9
75°	329.9	347.9	365.8	407.0	448.3	476.8	474.4	460.9	447.5	439.5	431.5
77.5°	254.0	266.2	278.5	318.5	358.5	405.5	404.3	393.5	382.7	374.6	366.5
80°	190.4	195.5	200.6	234.5	268.3	324.5	324.3	315.3	306.2	299.4	292.6
82.5°	136.1	136.9	138.0	163.0	188.0	235.9	238.5	234.1	229.7	224.9	220.1
85°	82.3	81.9	81.4	99.6	118.0	153.5	157.0	152.3	147.6	142.3	136.8
87.5°	36.1	35.7	35.2	42.6	50.1	65.0	69.4	67.4	65.6	64.6	63.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P963633

CATALOG NUMBER: NAV-SB3A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1571.0	1561.5	1551.8	1542.3	1534.9	1527.6	1521.5	1515.6	1510.8	1506.2	1501.9
5°	1511.2	1494.2	1478.9	1463.5	1451.7	1439.8	1431.6	1423.3	1417.5	1411.6	1407.1
7.5°	1474.5	1453.1	1434.3	1415.6	1401.5	1387.5	1377.7	1367.9	1361.1	1354.4	1350.3
10°	1472.0	1449.0	1427.9	1406.7	1390.0	1373.1	1362.1	1351.1	1344.7	1338.3	1335.0
12.5°	1508.7	1490.9	1468.9	1447.1	1425.7	1404.2	1390.0	1375.9	1368.7	1361.6	1358.7
15°	1574.0	1569.3	1550.3	1531.4	1500.8	1470.3	1448.7	1427.1	1417.3	1407.4	1403.6
17.5°	1636.9	1651.5	1636.1	1620.8	1580.4	1540.1	1508.2	1476.4	1461.9	1447.1	1442.3
20°	1660.3	1690.8	1683.8	1676.7	1630.5	1584.2	1545.3	1506.4	1487.7	1468.8	1462.9
22.5°	1627.7	1667.6	1671.9	1676.1	1631.9	1587.7	1547.6	1507.5	1487.7	1467.9	1461.3
25°	1552.2	1591.3	1606.0	1620.5	1584.3	1548.3	1512.5	1476.9	1459.8	1442.7	1436.4
27.5°	1460.0	1491.5	1507.8	1524.1	1498.2	1472.5	1444.8	1417.2	1405.7	1394.1	1391.3
30°	1369.9	1396.0	1409.3	1422.5	1402.9	1383.2	1363.5	1343.5	1337.6	1331.7	1331.7
32.5°	1282.9	1307.9	1322.7	1337.4	1319.4	1301.2	1285.5	1269.6	1265.8	1261.9	1262.4
35°	1199.0	1223.8	1241.5	1259.2	1246.3	1233.5	1218.8	1204.3	1198.4	1192.6	1191.4
37.5°	1119.2	1143.9	1165.7	1187.6	1181.6	1175.8	1162.2	1148.8	1138.2	1127.5	1122.0
40°	1043.8	1067.6	1092.8	1117.9	1119.3	1120.7	1109.4	1097.9	1082.4	1067.0	1056.6
42.5°	974.2	996.8	1023.9	1051.0	1058.3	1065.6	1055.9	1046.3	1027.0	1007.9	992.6
45°	914.4	935.8	963.9	992.1	1002.4	1012.9	1004.2	995.6	973.5	951.6	933.8
47.5°	867.0	888.1	915.7	943.5	955.5	967.5	961.4	955.4	935.8	916.2	899.7
50°	831.8	851.6	876.4	901.3	916.7	932.0	931.6	931.4	915.7	900.2	884.9
52.5°	807.8	825.8	849.0	872.3	890.5	908.7	911.9	915.2	902.5	889.8	876.1
55°	792.2	811.8	832.1	852.4	871.7	891.0	895.5	900.2	889.0	877.9	865.9
57.5°	772.8	795.8	815.9	836.0	855.5	874.9	879.4	884.1	872.9	861.6	849.8
60°	745.5	771.8	792.2	812.6	832.2	851.8	856.8	861.8	850.9	840.0	827.7
62.5°	706.5	737.3	759.0	780.7	798.7	816.6	821.4	826.4	816.4	806.6	793.7
65°	662.4	695.4	716.2	737.0	752.8	768.5	773.5	778.4	768.9	759.3	746.8
67.5°	616.9	647.4	667.2	686.9	700.5	714.0	718.9	723.8	714.9	706.2	694.6
70°	570.5	597.3	614.3	631.3	643.6	655.9	660.6	665.2	658.2	651.0	639.9
72.5°	513.9	534.9	550.3	565.7	577.8	589.8	595.3	601.0	595.0	589.1	578.5
75°	447.2	462.8	476.7	490.7	501.6	512.6	518.4	524.2	521.3	518.4	509.5
77.5°	379.2	392.0	404.0	415.9	427.5	439.0	444.3	449.8	445.8	441.6	432.7
80°	303.2	313.8	323.9	333.9	342.8	351.4	358.6	365.8	364.1	362.3	350.2
82.5°	219.2	218.3	214.8	211.3	229.9	248.7	260.9	273.1	272.3	271.5	261.4
85°	132.3	127.7	118.0	108.1	125.7	143.2	158.3	173.4	172.2	170.9	163.0
87.5°	63.3	63.2	55.8	48.3	55.6	62.9	69.1	75.1	73.7	72.1	68.0
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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CATALOG NUMBER: NAV-SB3A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1497.5	1492.2	1497.5	1501.9	1506.2	1510.8	1515.6	1521.5	1527.6	1534.9	1542.3
5°	1402.6	1398.2	1402.6	1407.1	1411.6	1417.5	1423.3	1431.6	1439.8	1451.7	1463.5
7.5°	1346.4	1343.4	1346.4	1350.3	1354.4	1361.1	1367.9	1377.7	1387.5	1401.5	1415.6
10°	1331.5	1330.1	1331.5	1335.0	1338.3	1344.7	1351.1	1362.1	1373.1	1390.0	1406.7
12.5°	1355.9	1355.4	1355.9	1358.7	1361.6	1368.7	1375.9	1390.0	1404.2	1425.7	1447.1
15°	1399.8	1399.5	1399.8	1403.6	1407.4	1417.3	1427.1	1448.7	1470.3	1500.8	1531.4
17.5°	1437.5	1436.7	1437.5	1442.3	1447.1	1461.9	1476.4	1508.2	1540.1	1580.4	1620.8
20°	1456.9	1455.0	1456.9	1462.9	1468.8	1487.7	1506.4	1545.3	1584.2	1630.5	1676.7
22.5°	1454.7	1451.8	1454.7	1461.3	1467.9	1487.7	1507.5	1547.6	1587.7	1631.9	1676.1
25°	1430.3	1426.6	1430.3	1436.4	1442.7	1459.8	1476.9	1512.5	1548.3	1584.3	1620.5
27.5°	1388.5	1387.5	1388.5	1391.3	1394.1	1405.7	1417.2	1444.8	1472.5	1498.2	1524.1
30°	1331.7	1332.6	1331.7	1331.7	1331.7	1337.6	1343.5	1363.5	1383.2	1402.9	1422.5
32.5°	1263.0	1263.9	1263.0	1262.4	1261.9	1265.8	1269.6	1285.5	1301.2	1319.4	1337.4
35°	1190.1	1189.5	1190.1	1191.4	1192.6	1198.4	1204.3	1218.8	1233.5	1246.3	1259.2
37.5°	1116.3	1113.1	1116.3	1122.0	1127.5	1138.2	1148.8	1162.2	1175.8	1181.6	1187.6
40°	1046.2	1040.0	1046.2	1056.6	1067.0	1082.4	1097.9	1109.4	1120.7	1119.3	1117.9
42.5°	977.4	967.5	977.4	992.6	1007.9	1027.0	1046.3	1055.9	1065.6	1058.3	1051.0
45°	915.8	904.4	915.8	933.8	951.6	973.5	995.6	1004.2	1012.9	1002.4	992.1
47.5°	883.2	872.3	883.2	899.7	916.2	935.8	955.4	961.4	967.5	955.5	943.5
50°	869.6	859.0	869.6	884.9	900.2	915.7	931.4	931.6	932.0	916.7	901.3
52.5°	862.4	852.7	862.4	876.1	889.8	902.5	915.2	911.9	908.7	890.5	872.3
55°	853.9	845.1	853.9	865.9	877.9	889.0	900.2	895.5	891.0	871.7	852.4
57.5°	837.8	828.7	837.8	849.8	861.6	872.9	884.1	879.4	874.9	855.5	836.0
60°	815.5	806.1	815.5	827.7	840.0	850.9	861.8	856.8	851.8	832.2	812.6
62.5°	780.7	769.5	780.7	793.7	806.6	816.4	826.4	821.4	816.6	798.7	780.7
65°	734.4	724.7	734.4	746.8	759.3	768.9	778.4	773.5	768.5	752.8	737.0
67.5°	683.1	674.2	683.1	694.6	706.2	714.9	723.8	718.9	714.0	700.5	686.9
70°	628.8	618.7	628.8	639.9	651.0	658.2	665.2	660.6	655.9	643.6	631.3
72.5°	568.0	558.1	568.0	578.5	589.1	595.0	601.0	595.3	589.8	577.8	565.7
75°	500.6	491.3	500.6	509.5	518.4	521.3	524.2	518.4	512.6	501.6	490.7
77.5°	423.7	416.3	423.7	432.7	441.6	445.8	449.8	444.3	439.0	427.5	415.9
80°	338.1	324.2	338.1	350.2	362.3	364.1	365.8	358.6	351.4	342.8	333.9
82.5°	251.1	242.2	251.1	261.4	271.5	272.3	273.1	260.9	248.7	229.9	211.3
85°	155.0	147.0	155.0	163.0	170.9	172.2	173.4	158.3	143.2	125.7	108.1
87.5°	63.9	60.0	63.9	68.0	72.1	73.7	75.1	69.1	62.9	55.6	48.3
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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CATALOG NUMBER: NAV-SB3A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1551.8	1561.5	1571.0	1580.6	1591.3	1602.3	1614.3	1626.5	1641.3	1654.8	1668.7
5°	1478.9	1494.2	1511.2	1528.1	1547.1	1566.3	1589.2	1612.0	1638.3	1664.7	1692.8
7.5°	1434.3	1453.1	1474.5	1495.7	1520.9	1546.1	1576.4	1606.9	1640.7	1676.9	1716.1
10°	1427.9	1449.0	1472.0	1494.9	1520.1	1545.3	1577.4	1609.4	1645.7	1690.3	1736.8
12.5°	1468.9	1490.9	1508.7	1526.7	1543.4	1560.2	1586.3	1612.5	1646.5	1693.3	1745.7
15°	1550.3	1569.3	1574.0	1578.6	1576.3	1574.1	1586.6	1599.1	1626.3	1678.1	1738.8
17.5°	1636.1	1651.5	1636.9	1622.3	1594.8	1567.2	1562.7	1558.1	1574.8	1635.9	1708.9
20°	1683.8	1690.8	1660.3	1629.7	1581.9	1534.1	1512.7	1491.3	1495.7	1566.7	1657.2
22.5°	1671.9	1667.6	1627.7	1587.9	1533.3	1478.9	1447.1	1415.4	1406.7	1487.7	1596.5
25°	1606.0	1591.3	1552.2	1513.0	1463.9	1414.9	1378.4	1341.8	1318.5	1401.4	1528.9
27.5°	1507.8	1491.5	1460.0	1428.6	1388.4	1348.1	1312.8	1277.5	1249.1	1324.6	1467.1
30°	1409.3	1396.0	1369.9	1343.9	1310.5	1277.0	1248.9	1220.9	1198.6	1262.0	1415.3
32.5°	1322.7	1307.9	1282.9	1257.9	1231.1	1204.5	1187.9	1171.3	1161.4	1212.5	1370.7
35°	1241.5	1223.8	1199.0	1174.3	1154.0	1133.6	1129.0	1124.5	1128.6	1171.2	1326.9
37.5°	1165.7	1143.9	1119.2	1094.6	1080.0	1065.4	1070.4	1075.4	1090.5	1127.7	1275.3
40°	1092.8	1067.6	1043.8	1020.0	1009.4	998.9	1010.3	1021.7	1044.8	1078.5	1213.8
42.5°	1023.9	996.8	974.2	951.6	942.9	934.4	949.5	964.6	993.6	1024.7	1145.8
45°	963.9	935.8	914.4	893.0	885.6	878.4	893.1	907.8	935.9	967.5	1073.7
47.5°	915.7	888.1	867.0	846.0	839.3	832.5	844.9	857.2	881.4	922.1	1016.6
50°	876.4	851.6	831.8	812.0	801.3	790.8	801.7	812.6	840.7	894.2	978.7
52.5°	849.0	825.8	807.8	789.7	773.8	757.8	768.5	779.4	818.7	880.2	953.8
55°	832.1	811.8	792.2	772.7	750.1	727.5	744.6	761.8	820.8	878.0	935.6
57.5°	815.9	795.8	772.8	749.9	725.5	701.2	726.2	751.1	823.1	873.5	914.2
60°	792.2	771.8	745.5	719.1	697.8	676.4	708.8	741.2	816.1	849.4	881.4
62.5°	759.0	737.3	706.5	675.8	662.3	648.6	689.1	729.6	799.1	803.2	824.4
65°	716.2	695.4	662.4	629.5	624.2	619.0	662.0	705.1	758.1	757.6	767.6
67.5°	667.2	647.4	616.9	586.5	588.1	589.8	625.7	661.4	691.3	692.6	687.1
70°	614.3	597.3	570.5	543.8	549.5	555.1	580.7	606.1	615.8	615.8	590.0
72.5°	550.3	534.9	513.9	492.9	501.1	509.4	527.0	544.4	544.3	538.1	501.3
75°	476.7	462.8	447.2	431.5	439.5	447.5	460.9	474.4	476.8	448.3	407.0
77.5°	404.0	392.0	379.2	366.5	374.6	382.7	393.5	404.3	405.5	358.5	318.5
80°	323.9	313.8	303.2	292.6	299.4	306.2	315.3	324.3	324.5	268.3	234.5
82.5°	214.8	218.3	219.2	220.1	224.9	229.7	234.1	238.5	235.9	188.0	163.0
85°	118.0	127.7	132.3	136.8	142.3	147.6	152.3	157.0	153.5	118.0	99.6
87.5°	55.8	63.2	63.3	63.6	64.6	65.6	67.4	69.4	65.0	50.1	42.6
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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CATALOG NUMBER: NAV-SB3A-827-U-SLL

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6	1643.6
2.5°	1682.5	1697.1	1711.5	1725.9	1740.3	1754.0	1767.5
5°	1720.9	1750.9	1780.9	1810.8	1840.7	1870.6	1900.6
7.5°	1755.2	1799.7	1844.2	1889.8	1935.5	1984.8	2034.3
10°	1783.1	1837.1	1891.1	1951.4	2011.8	2074.3	2136.8
12.5°	1798.1	1861.8	1925.5	1993.8	2062.2	2130.9	2199.5
15°	1799.5	1872.9	1946.2	2020.4	2094.5	2166.1	2237.7
17.5°	1781.9	1866.9	1952.1	2033.0	2114.0	2186.5	2259.1
20°	1747.6	1850.8	1954.0	2042.9	2131.9	2207.3	2282.8
22.5°	1705.5	1831.1	1956.5	2056.3	2156.0	2233.2	2310.2
25°	1656.5	1811.5	1966.5	2080.5	2194.5	2270.0	2345.5
27.5°	1609.6	1798.4	1987.3	2118.4	2249.4	2321.4	2393.5
30°	1568.7	1792.3	2015.8	2167.4	2319.0	2388.5	2458.2
32.5°	1528.9	1784.7	2040.4	2218.5	2396.7	2465.5	2534.4
35°	1482.7	1770.5	2058.4	2276.8	2495.2	2561.2	2627.2
37.5°	1423.0	1746.1	2069.2	2342.0	2615.0	2699.1	2783.2
40°	1349.0	1712.5	2075.9	2424.9	2773.9	2896.5	3019.1
42.5°	1266.9	1677.7	2088.7	2533.4	2978.0	3155.0	3332.0
45°	1179.9	1645.5	2111.2	2676.0	3240.8	3479.5	3718.2
47.5°	1111.1	1618.9	2126.7	2828.0	3529.4	3865.4	4201.4
50°	1063.2	1589.9	2116.6	2969.0	3821.5	4328.1	4834.5
52.5°	1027.4	1540.9	2054.5	3060.6	4066.7	4814.0	5561.4
55°	993.2	1459.7	1926.1	3040.5	4154.6	5244.9	6335.3
57.5°	954.9	1345.1	1735.3	2898.4	4061.5	5550.3	7039.1
60°	913.4	1196.4	1479.5	2634.0	3788.7	5626.6	7464.6
62.5°	845.6	1018.4	1191.3	2276.6	3362.1	5305.3	7248.5
65°	777.7	858.3	939.0	1912.0	2885.1	4850.6	6816.1
67.5°	681.4	704.4	727.3	1554.8	2382.2	4309.5	6236.9
70°	564.0	557.5	550.9	1224.2	1897.4	3719.2	5540.9
72.5°	464.5	444.7	425.0	935.9	1446.8	3079.1	4711.5
75°	365.8	347.9	329.9	679.3	1028.5	2345.5	3662.4
77.5°	278.5	266.2	254.0	460.3	666.6	1641.6	2616.7
80°	200.6	195.5	190.4	296.5	402.7	1057.7	1712.7
82.5°	138.0	136.9	136.1	182.3	228.8	612.1	995.6
85°	81.4	81.9	82.3	97.5	112.7	275.3	438.0
87.5°	35.2	35.7	36.1	40.4	44.8	90.2	135.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)