

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: P962377

Luminaire Tested: **NAV-SB2C-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962377  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12533.7 lumens  
Efficiency: N/A  
Efficacy: 124.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

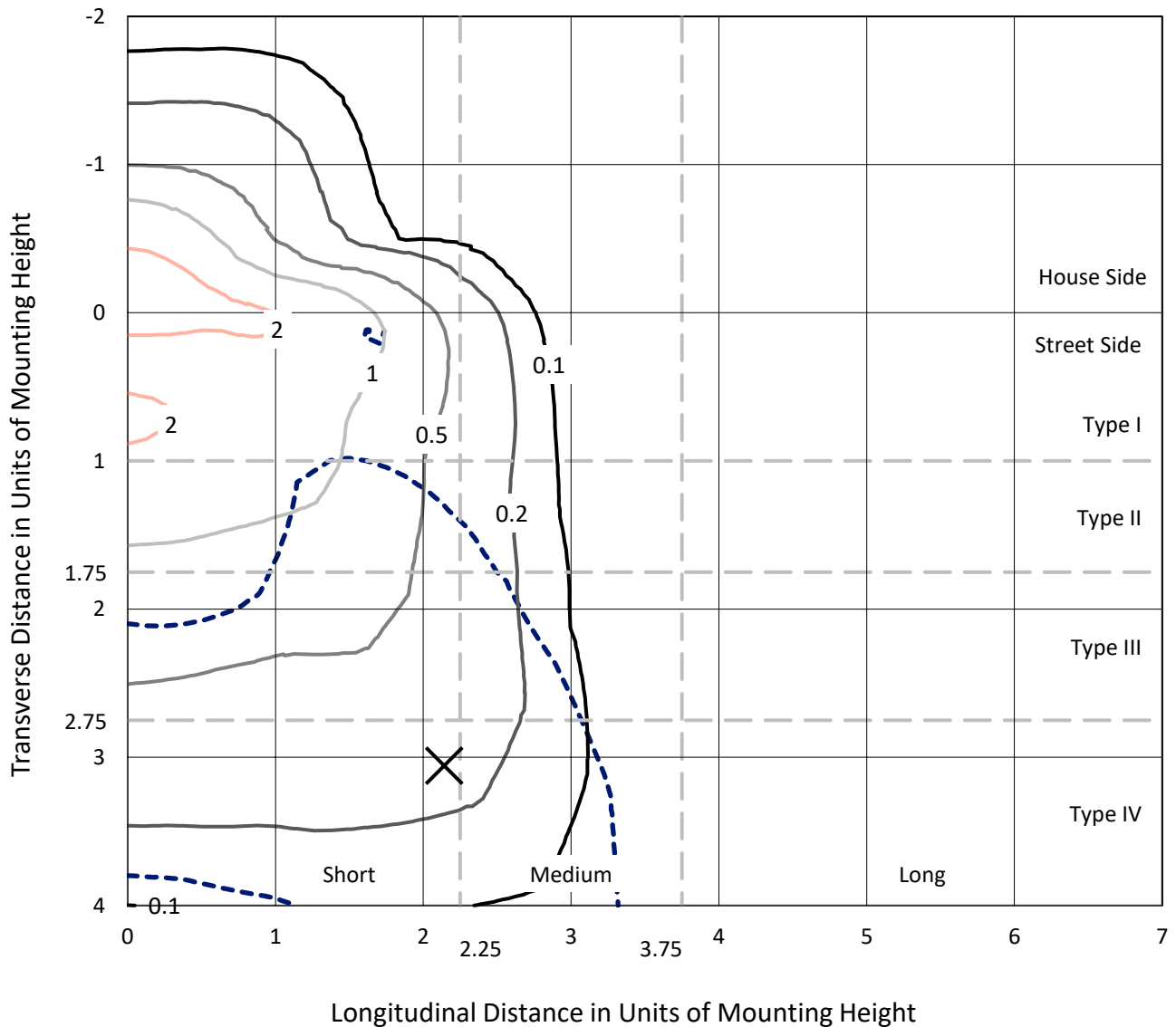
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

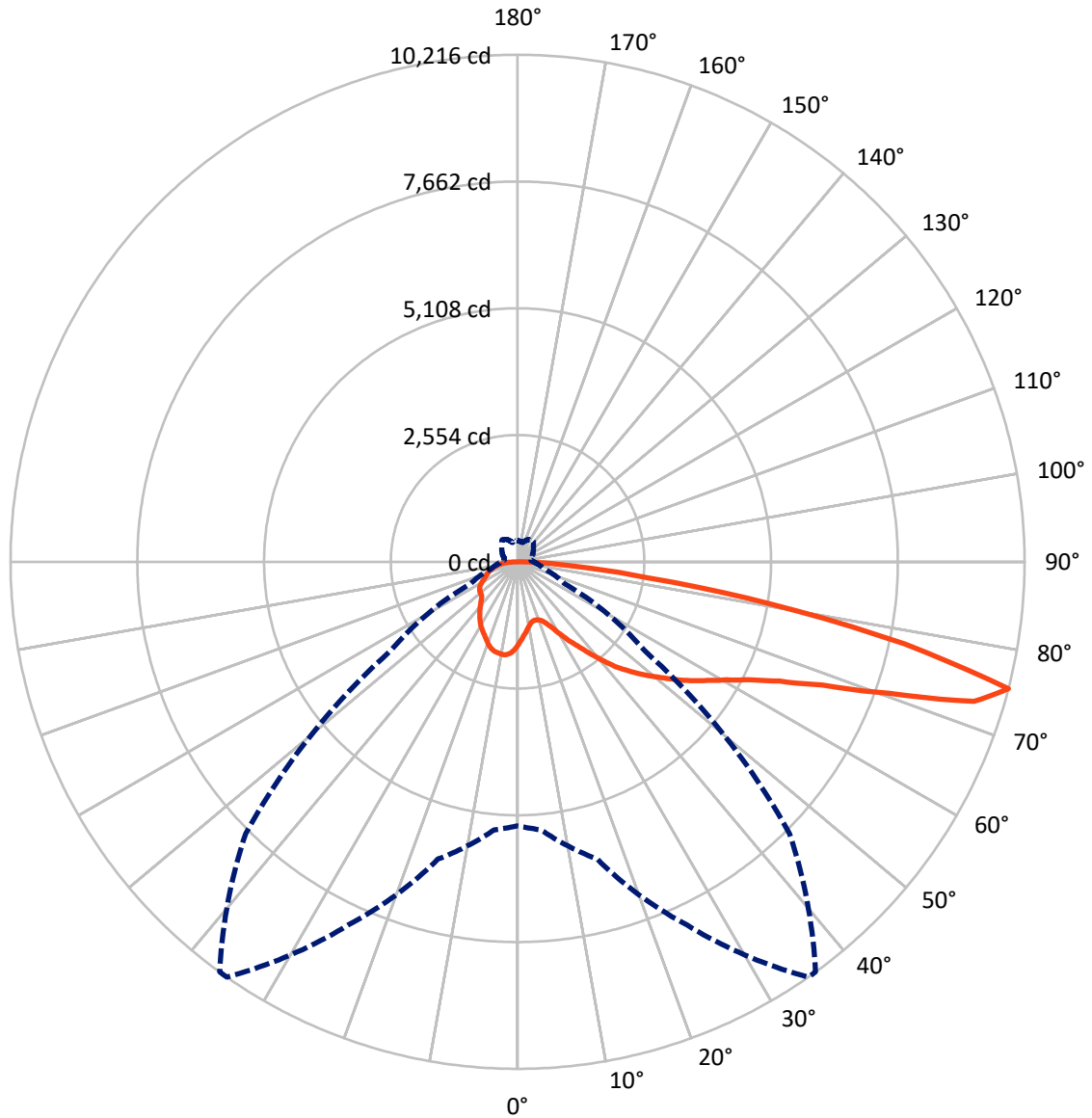
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2982.7	0.0	2982.7
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	9551.0	0.0	9551.0
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	12533.7	0.0	12533.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.1	1.3
10°-20°	456.1	3.6
20°-30°	766.0	6.1
30°-40°	1190.4	9.5
40°-50°	1766.9	14.1
50°-60°	2439.3	19.5
60°-70°	2959.4	23.6
70°-80°	2445.7	19.5
80°-90°	351.8	2.8
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°	12533.7	100.0
0°-180°	12533.7	100.0

**Coefficient of Utilization**



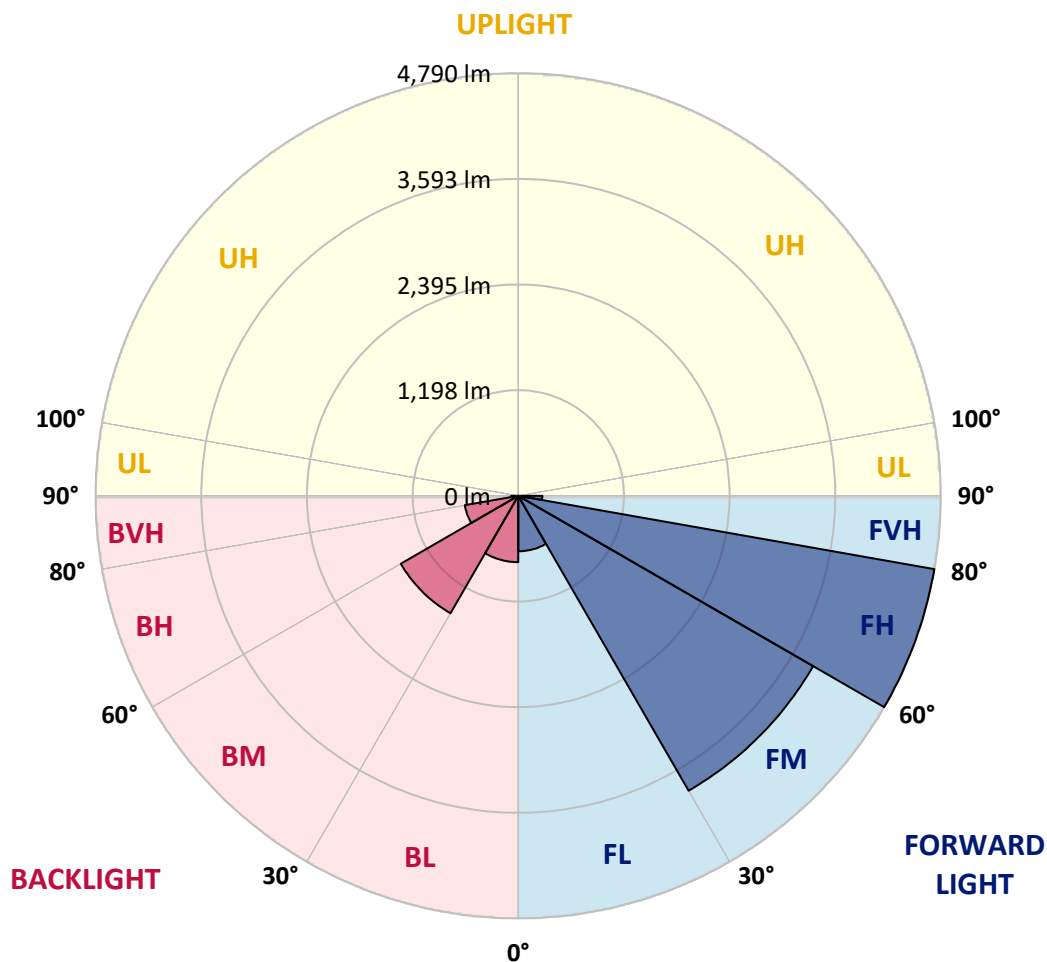
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	628.5	5.0			
FM (30°-60°)	3859.7	30.8			
FH (60°-80°)	4790.2	38.2			G2/5000
FVH (80°-90°)	272.6	2.2			G3/500
BL (0°-30°)	751.7	6.0	B2/1000		
BM (30°-60°)	1536.9	12.3	B2/2500		
BH (60°-80°)	614.9	4.9	B2/1000		G2/1000
BVH (80°-90°)	79.2	0.6			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°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2
2.5°	1540.1	1549.6	1553.7	1551.6	1561.8	1560.5	1574.7	1592.2	1616.6	1640.4	1675.0
5°	1421.6	1431.7	1440.5	1448.6	1468.3	1474.4	1496.7	1530.6	1575.3	1620.7	1677.6
7.5°	1311.1	1319.9	1333.4	1348.4	1381.6	1387.6	1425.0	1477.7	1540.1	1606.5	1685.1
10°	1221.0	1229.8	1244.0	1261.0	1302.3	1309.7	1357.2	1427.6	1508.9	1593.0	1693.2
12.5°	1182.3	1185.1	1193.2	1210.1	1246.1	1250.8	1303.0	1383.5	1478.5	1582.8	1705.4
15°	1180.3	1185.7	1186.4	1195.3	1225.1	1227.0	1275.2	1355.2	1459.5	1580.8	1723.7
17.5°	1200.7	1204.7	1198.6	1204.1	1229.1	1232.5	1270.5	1341.6	1453.3	1589.6	1754.9
20°	1254.8	1258.3	1239.9	1232.5	1250.8	1253.5	1290.8	1350.4	1459.5	1607.8	1797.5
22.5°	1370.0	1372.1	1327.4	1296.8	1298.3	1299.6	1332.1	1386.3	1483.2	1641.0	1851.8
25°	1549.6	1548.3	1477.1	1418.2	1384.3	1376.8	1398.5	1444.5	1523.1	1685.1	1921.6
27.5°	1759.6	1749.5	1678.3	1590.3	1516.4	1505.5	1500.8	1520.5	1580.0	1743.4	2007.0
30°	1996.8	1987.3	1910.7	1795.6	1693.2	1675.7	1630.9	1620.7	1664.8	1822.7	2125.5
32.5°	2256.9	2250.9	2159.4	2019.9	1882.9	1862.6	1787.4	1760.3	1794.9	1942.6	2290.9
35°	2475.2	2469.7	2393.9	2250.2	2082.8	2057.8	1981.2	1950.7	1968.3	2096.4	2506.9
37.5°	2672.3	2669.6	2604.5	2491.4	2318.7	2288.1	2202.1	2192.0	2188.6	2299.0	2769.2
40°	2855.2	2848.5	2780.7	2721.1	2593.0	2565.3	2489.4	2480.6	2454.8	2548.4	3066.0
42.5°	3057.9	3040.3	2942.0	2914.2	2879.6	2856.6	2811.3	2812.6	2755.6	2829.5	3380.3
45°	3223.2	3213.1	3112.1	3095.8	3133.0	3123.6	3162.8	3173.1	3062.6	3124.3	3707.0
47.5°	3400.7	3391.2	3305.8	3294.4	3395.3	3398.0	3536.9	3540.2	3362.1	3430.5	4034.2
50°	3619.6	3606.1	3521.3	3535.5	3648.7	3658.8	3912.9	3889.9	3637.8	3741.6	4358.8
52.5°	3763.9	3772.0	3753.8	3776.7	3931.3	3940.7	4282.9	4223.9	3910.9	4048.4	4677.3
55°	3870.3	3886.5	3943.5	3996.3	4229.4	4238.9	4631.9	4541.8	4137.2	4333.1	4976.7
57.5°	4007.1	3984.1	4090.5	4193.5	4512.6	4537.7	4971.4	4847.9	4337.8	4578.3	5182.0
60°	4203.6	4187.3	4270.0	4422.5	4829.7	4869.7	5330.4	5123.8	4484.8	4772.8	5222.0
62.5°	4602.0	4561.4	4574.3	4709.1	5229.4	5282.3	5735.6	5364.3	4558.0	4848.7	5007.8
65°	5197.6	5127.9	5062.8	5156.3	5792.5	5844.7	6192.9	5553.3	4530.9	4701.7	4439.4
67.5°	5947.7	5878.6	5798.6	5886.7	6621.8	6663.2	6757.4	5659.7	4317.4	4135.2	3434.6
70°	6566.3	6540.5	6636.1	6998.6	7946.5	7947.8	7481.0	5571.6	3732.7	2931.8	1987.3
72.5°	6484.4	6468.7	6972.2	8092.9	9616.0	9580.1	8166.1	4904.9	2514.4	1322.7	744.7
75°	5319.5	5420.5	6200.4	8073.2	10215.7	10210.9	7746.6	3118.2	1040.1	548.2	384.9
77.5°	2852.6	3012.5	4025.4	5960.6	7974.9	8094.8	5446.2	1090.9	446.5	351.0	266.3
80°	930.3	1069.9	1604.4	3034.8	5182.0	5159.6	2334.2	428.2	305.6	248.7	184.3
82.5°	395.0	411.3	716.9	1433.1	2659.5	2618.2	743.3	246.0	214.7	170.0	113.9
85°	154.5	172.8	316.4	662.7	1151.9	1126.8	268.3	122.0	137.6	111.1	67.8
87.5°	50.8	61.7	113.2	226.9	358.4	345.5	65.7	42.0	59.7	50.8	24.4
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2	1670.2
2.5°	1684.4	1695.2	1708.2	1727.1	1743.4	1757.0	1771.2	1780.0	1783.4	1793.5	1792.8
5°	1696.6	1720.4	1752.1	1783.4	1813.8	1832.2	1848.4	1856.5	1864.0	1869.4	1870.7
7.5°	1717.0	1747.4	1797.5	1838.2	1864.0	1878.9	1889.7	1887.0	1889.7	1891.1	1893.1
10°	1734.6	1777.2	1836.9	1875.5	1895.1	1895.8	1893.1	1883.6	1878.9	1879.5	1880.9
12.5°	1755.6	1803.0	1867.3	1899.9	1905.3	1890.4	1878.9	1862.6	1856.5	1853.8	1852.5
15°	1784.0	1838.2	1900.6	1912.8	1899.2	1880.3	1860.6	1834.1	1820.6	1809.7	1813.1
17.5°	1818.6	1878.2	1926.3	1917.5	1888.4	1857.2	1825.3	1785.3	1757.6	1746.1	1746.8
20°	1866.7	1920.2	1946.0	1907.3	1863.3	1815.9	1761.7	1712.9	1687.2	1675.7	1674.2
22.5°	1925.0	1976.5	1964.9	1889.7	1827.4	1751.5	1683.8	1647.8	1635.0	1626.9	1628.2
25°	1994.8	2038.8	1978.5	1864.0	1768.4	1666.1	1614.0	1602.5	1596.3	1590.3	1590.3
27.5°	2085.6	2109.2	1988.7	1826.0	1676.3	1575.3	1556.4	1558.4	1556.4	1546.2	1548.3
30°	2205.5	2200.8	1998.1	1764.3	1570.6	1493.3	1494.8	1503.5	1504.9	1498.1	1501.5
32.5°	2363.3	2315.3	2002.8	1684.4	1469.6	1421.6	1422.9	1432.3	1439.1	1427.6	1433.1
35°	2554.4	2448.7	1995.5	1584.1	1391.7	1353.1	1343.0	1345.6	1347.7	1336.8	1344.3
37.5°	2777.3	2598.5	1962.3	1473.0	1327.4	1286.1	1264.3	1246.1	1235.2	1225.1	1231.8
40°	3021.9	2761.8	1901.3	1364.6	1255.5	1214.8	1182.3	1147.8	1111.2	1097.7	1103.7
42.5°	3278.1	2929.8	1827.4	1261.0	1172.9	1139.7	1105.2	1054.9	1000.1	972.3	975.7
45°	3543.6	3101.9	1754.9	1158.7	1088.1	1073.9	1033.9	973.6	914.0	878.8	876.1
47.5°	3803.9	3264.5	1648.5	1055.6	1008.9	1024.5	993.3	937.8	871.4	815.8	809.6
50°	4052.5	3416.9	1474.4	951.3	944.5	1009.5	979.8	899.8	823.9	752.8	746.7
52.5°	4299.2	3540.2	1251.4	856.5	910.0	1005.5	962.2	874.0	781.3	706.7	698.5
55°	4508.6	3604.0	1036.7	775.1	859.9	971.0	941.2	843.6	720.9	641.6	634.9
57.5°	4627.8	3552.4	857.8	695.2	790.7	914.0	905.2	778.5	649.1	588.1	580.0
60°	4576.3	3343.8	711.5	625.4	725.0	852.4	842.9	714.1	594.2	536.6	528.5
62.5°	4292.4	2946.1	595.6	564.4	665.3	789.4	780.5	664.7	552.2	496.6	487.8
65°	3720.5	2396.6	505.4	513.6	605.1	713.5	726.3	623.4	519.1	464.8	456.0
67.5°	2837.6	1735.9	435.0	469.6	546.1	639.0	676.2	593.6	491.3	439.7	431.6
70°	1617.3	985.8	375.4	426.9	493.9	569.8	637.6	569.8	461.5	418.7	413.3
72.5°	613.2	452.6	324.5	384.2	443.8	511.6	594.9	532.6	426.9	395.0	389.6
75°	327.3	275.7	273.1	334.0	386.2	454.7	541.4	496.0	401.1	417.4	430.9
77.5°	222.9	195.2	228.4	286.0	323.2	391.7	484.4	440.4	347.6	346.2	319.1
80°	154.5	138.3	185.6	230.4	250.0	329.3	422.8	378.1	283.2	264.2	252.8
82.5°	92.9	90.1	138.9	172.1	176.8	254.1	350.3	317.1	231.8	201.9	203.3
85°	50.8	53.5	88.8	101.0	103.0	177.5	274.4	245.3	178.2	149.8	151.1
87.5°	14.2	18.2	32.5	40.0	49.5	92.1	163.3	145.7	89.5	62.3	62.3
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)