

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: P962441

Luminaire Tested: **NAV-SB2C-730-U-T4W**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P962441  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2C-730-U-T4W  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15321.7 lumens  
Efficiency: N/A  
Efficacy: 151.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

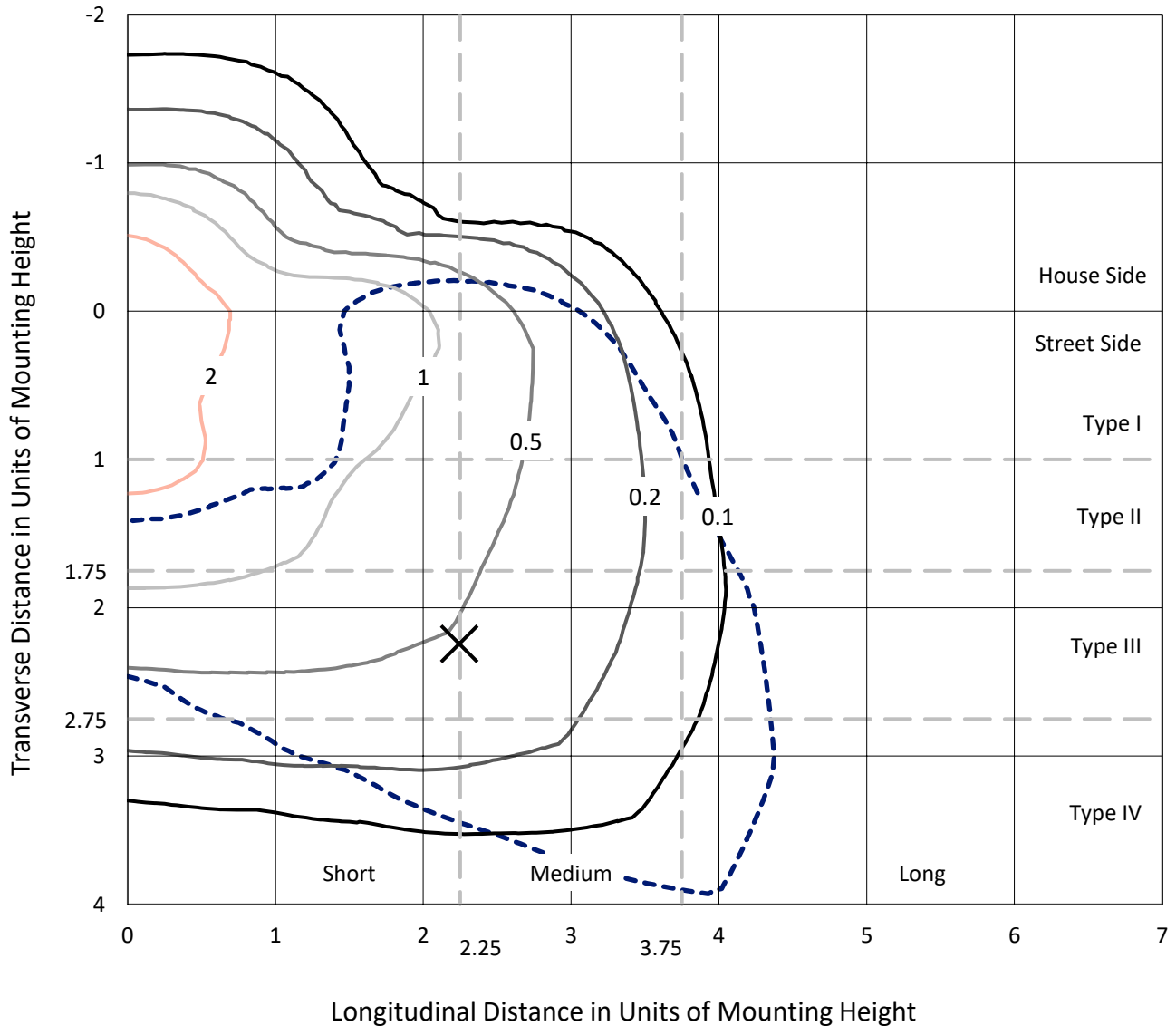
Input Watts (W): 100.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

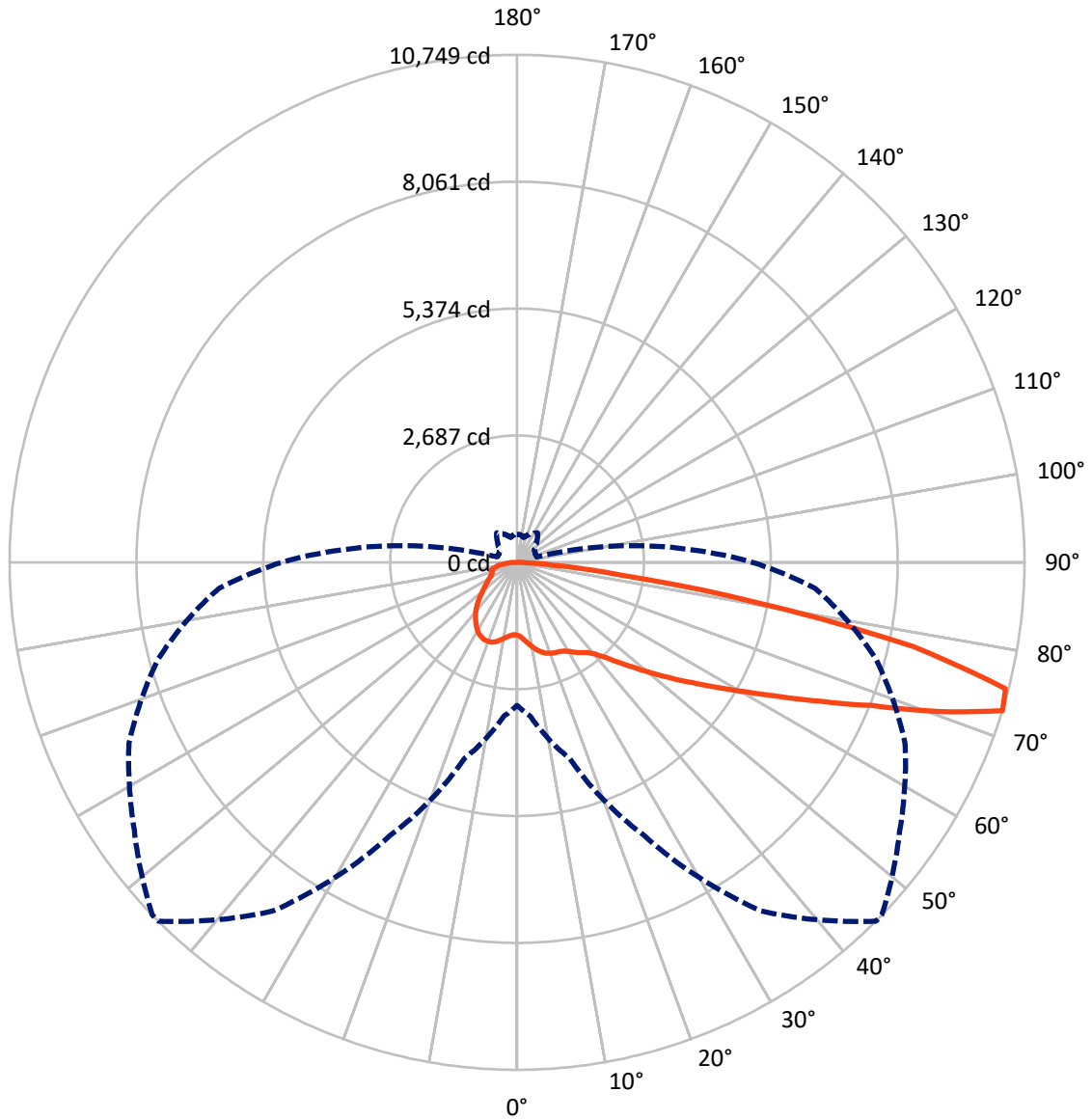
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3463.7	0.0	3463.7
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	11858.0	0.0	11858.0
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	15321.7	0.0	15321.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.3	1.0
10°-20°	524.5	3.4
20°-30°	912.4	6.0
30°-40°	1308.0	8.5
40°-50°	1841.8	12.0
50°-60°	2821.0	18.4
60°-70°	4086.7	26.7
70°-80°	3263.5	21.3
80°-90°	406.4	2.7
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°	15321.7	100.0
0°-180°	15321.7	100.0

**Coefficient of Utilization**



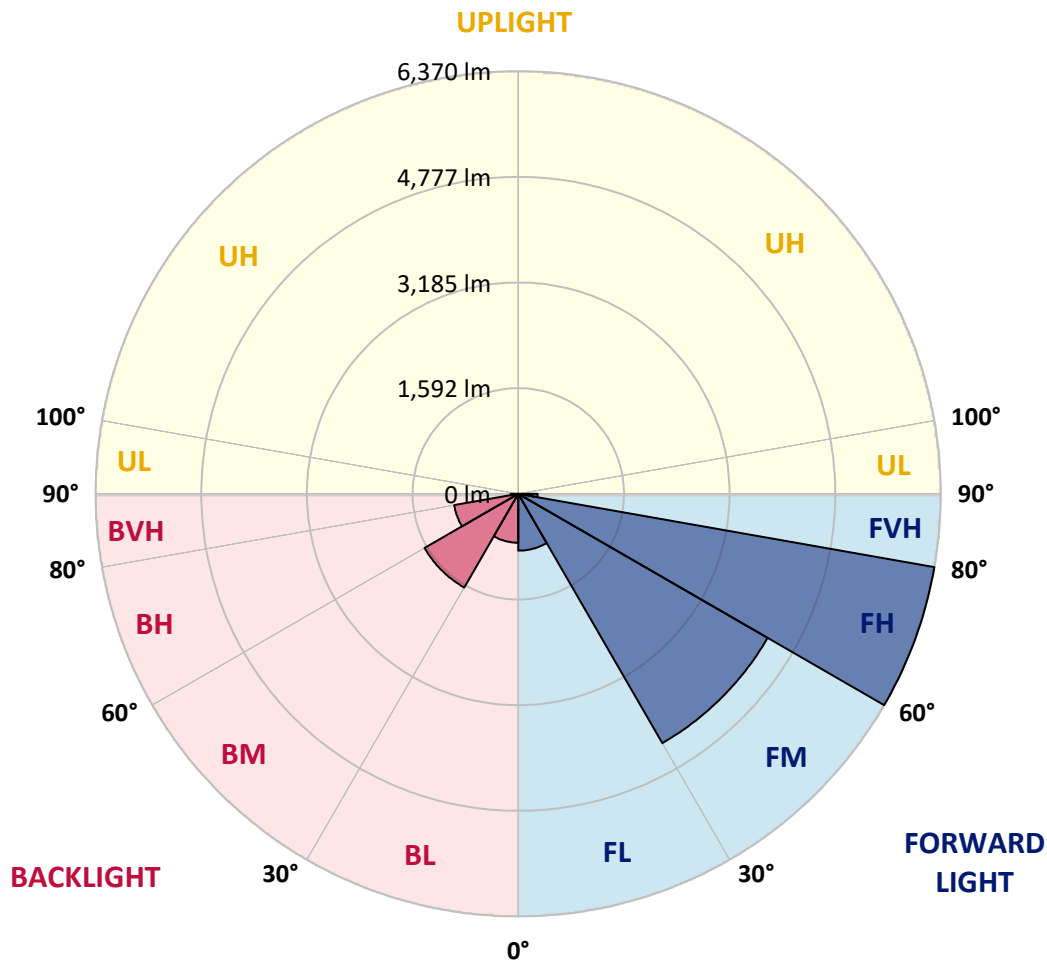
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	856.8	5.6			
FM (30°-60°)	4339.9	28.3			
FH (60°-80°)	6369.7	41.6			G3/7500
FVH (80°-90°)	291.6	1.9			G3/500
BL (0°-30°)	737.5	4.8	B2/1000		
BM (30°-60°)	1630.9	10.6	B2/2500		
BH (60°-80°)	980.5	6.4	B2/1000		G2/1000
BVH (80°-90°)	114.9	0.7			G2/225
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°	45°	46°	55°	65°	75°	85°
0°	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7
2.5°	1606.2	1616.7	1607.0	1598.1	1594.1	1583.6	1582.8	1576.3	1572.2	1561.0	1557.8
5°	1718.4	1732.1	1716.0	1698.2	1682.0	1656.2	1653.0	1634.5	1613.5	1589.3	1575.5
7.5°	1845.1	1857.2	1838.6	1812.0	1783.8	1741.0	1740.1	1706.3	1673.2	1632.0	1608.6
10°	1955.7	1971.8	1946.8	1910.5	1874.9	1826.6	1820.9	1782.2	1740.1	1686.9	1651.4
12.5°	2053.4	2064.7	2040.5	1996.1	1954.9	1906.5	1899.2	1856.4	1809.6	1749.1	1703.9
15°	2130.9	2145.3	2113.0	2065.5	2021.9	1974.3	1967.8	1929.0	1882.2	1818.5	1760.3
17.5°	2181.7	2193.8	2160.7	2107.4	2065.5	2025.9	2021.1	1988.8	1947.6	1883.0	1820.9
20°	2201.1	2214.0	2179.3	2125.1	2086.5	2055.7	2053.4	2029.9	2001.7	1942.8	1879.8
22.5°	2220.5	2232.6	2187.4	2130.9	2096.9	2077.6	2076.8	2061.4	2050.1	2001.7	1940.3
25°	2298.8	2301.9	2241.4	2159.9	2111.5	2094.5	2093.7	2092.9	2097.8	2059.8	2005.7
27.5°	2366.5	2365.7	2314.0	2237.4	2162.3	2126.8	2126.0	2134.0	2149.4	2118.0	2073.6
30°	2465.8	2456.9	2395.5	2315.7	2247.1	2192.2	2187.4	2180.1	2192.2	2167.2	2141.3
32.5°	2676.5	2648.2	2549.0	2406.9	2317.3	2275.3	2268.8	2223.6	2228.5	2213.2	2200.3
35°	2978.3	2941.2	2808.8	2579.6	2404.4	2344.7	2341.5	2284.2	2274.5	2260.7	2265.7
37.5°	3337.5	3291.5	3137.3	2829.8	2554.6	2425.5	2420.6	2369.0	2329.4	2314.9	2342.3
40°	3698.3	3640.2	3512.7	3134.9	2775.7	2560.2	2544.9	2466.6	2421.4	2397.2	2455.3
42.5°	4048.5	4000.2	3891.2	3477.1	3048.6	2757.1	2723.2	2589.3	2555.4	2532.8	2637.7
45°	4358.5	4314.9	4235.0	3842.7	3368.2	3025.2	2992.1	2773.3	2762.8	2762.8	2914.6
47.5°	4610.3	4600.7	4515.9	4215.6	3745.1	3330.2	3272.9	3029.2	3057.5	3101.0	3307.7
50°	4889.7	4863.0	4772.6	4582.9	4188.3	3679.7	3632.9	3343.1	3448.9	3568.3	3875.8
52.5°	5146.3	5160.8	5059.9	4965.5	4688.7	4069.6	3987.2	3713.6	3942.0	4139.8	4541.8
55°	5410.3	5411.0	5382.8	5369.9	5213.3	4500.6	4410.2	4159.1	4522.4	4767.8	5318.2
57.5°	5658.0	5659.6	5701.6	5815.4	5821.9	4997.8	4895.3	4706.4	5167.2	5417.4	6118.8
60°	5879.2	5890.5	6005.1	6271.5	6356.9	5567.6	5470.7	5353.0	5834.0	6085.8	6960.7
62.5°	5953.4	5994.6	6249.6	6628.2	6885.6	6266.5	6171.3	6101.1	6534.6	6768.6	7664.5
65°	5827.5	5921.9	6415.1	6922.7	7429.7	7097.1	7002.7	6926.0	7262.6	7482.9	8242.4
67.5°	5518.4	5640.3	6405.4	7231.9	8089.9	8096.4	8008.4	7828.4	8043.1	8127.8	8430.5
70°	4703.9	4886.4	5841.3	7347.3	8847.8	9462.8	9378.1	8914.8	8822.0	8412.0	7901.0
72.5°	3030.8	3276.2	4301.2	6397.3	9016.5	10748.6	10743.7	9895.5	9068.2	7859.9	6336.9
75°	1105.8	1255.9	1998.4	4015.5	7568.5	10683.3	10714.7	9727.6	8278.0	6071.3	3947.7
77.5°	402.7	440.6	652.2	1543.2	4654.7	8571.8	8637.2	7776.8	5892.1	3046.9	1564.3
80°	211.5	232.5	334.2	598.9	1994.4	5090.6	5193.1	4621.6	2769.2	917.7	468.9
82.5°	117.1	126.7	187.3	325.2	898.3	2176.8	2238.2	1825.7	974.2	389.0	193.7
85°	62.9	67.0	87.9	177.5	439.1	754.7	771.6	545.6	388.3	228.4	93.6
87.5°	18.6	22.5	29.0	56.5	171.9	169.5	173.5	108.1	153.3	115.4	30.6
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°	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7	1545.7
2.5°	1552.9	1550.5	1541.6	1537.6	1532.8	1532.0	1536.0	1536.8	1537.6	1538.4	1541.6
5°	1567.4	1559.3	1551.3	1546.4	1548.1	1548.9	1557.0	1562.6	1566.6	1569.9	1571.5
7.5°	1595.7	1589.3	1575.5	1574.7	1577.2	1584.4	1594.9	1607.8	1615.1	1620.7	1622.4
10°	1637.6	1625.5	1609.5	1611.8	1616.7	1627.2	1649.0	1659.5	1671.6	1682.0	1679.7
12.5°	1680.5	1669.9	1651.4	1653.0	1661.1	1679.7	1700.7	1713.6	1721.6	1729.7	1733.0
15°	1736.1	1717.6	1697.4	1697.4	1712.0	1732.1	1741.8	1752.2	1757.2	1766.0	1769.3
17.5°	1793.4	1769.3	1742.6	1741.0	1758.7	1768.4	1774.1	1775.7	1777.4	1787.0	1790.3
20°	1850.7	1824.1	1786.2	1783.0	1787.0	1785.3	1784.5	1783.0	1785.3	1797.4	1802.4
22.5°	1907.2	1876.6	1824.1	1809.6	1798.3	1783.0	1782.2	1781.3	1783.0	1795.1	1803.2
25°	1973.4	1936.3	1866.1	1822.6	1784.5	1763.6	1766.0	1766.8	1768.4	1778.1	1791.0
27.5°	2045.3	2004.1	1904.9	1818.5	1749.9	1735.3	1731.3	1733.7	1739.3	1754.7	1770.1
30°	2117.1	2068.7	1940.3	1802.4	1706.3	1686.1	1673.2	1678.8	1696.6	1712.0	1728.9
32.5°	2182.5	2134.0	1968.6	1766.8	1650.6	1619.1	1602.2	1609.5	1627.2	1632.8	1653.0
35°	2259.2	2204.3	1980.7	1710.3	1590.1	1541.6	1519.0	1508.5	1517.4	1511.8	1529.5
37.5°	2344.7	2287.4	1979.1	1636.1	1519.0	1463.3	1431.8	1392.3	1373.7	1354.3	1366.4
40°	2471.5	2389.1	1959.7	1546.4	1431.0	1380.2	1323.7	1256.8	1214.7	1176.8	1179.3
42.5°	2644.2	2530.3	1924.2	1448.0	1331.8	1284.1	1207.4	1129.1	1063.0	1000.0	994.4
45°	2901.7	2715.2	1879.8	1343.1	1224.5	1177.6	1094.5	1006.4	931.4	850.7	841.0
47.5°	3272.9	2963.8	1837.8	1223.6	1111.4	1068.7	993.5	912.0	823.3	745.0	736.2
50°	3783.1	3320.6	1799.1	1107.4	1000.0	967.7	908.0	824.9	735.3	672.3	668.3
52.5°	4432.0	3805.6	1783.0	995.2	896.0	883.9	836.2	758.7	673.9	620.6	616.6
55°	5177.0	4386.0	1783.0	887.9	804.7	808.7	775.6	703.9	630.4	582.7	577.9
57.5°	5937.3	4973.6	1750.7	788.5	727.2	744.2	723.2	660.2	594.1	544.8	536.8
60°	6637.9	5465.9	1619.9	698.1	658.7	685.2	671.6	617.5	536.8	495.6	489.1
62.5°	7176.2	5743.6	1368.1	626.4	602.1	632.8	625.6	561.0	526.2	509.3	503.7
65°	7445.8	5698.4	1046.0	562.6	554.5	602.1	586.8	584.4	556.9	537.5	531.1
67.5°	7280.4	5309.3	758.7	515.8	527.1	573.9	632.8	642.5	591.6	553.7	547.2
70°	6554.8	4605.5	565.0	471.4	492.3	574.7	721.6	672.3	580.4	536.0	528.7
72.5°	4986.5	3434.4	438.3	424.6	447.1	578.7	761.2	658.7	548.1	592.4	587.6
75°	2851.7	1885.5	351.9	367.3	390.6	540.8	741.0	623.1	523.1	544.0	544.0
77.5°	1087.2	724.8	290.6	310.8	314.0	472.2	708.7	620.6	498.0	485.8	443.1
80°	376.9	283.3	240.6	247.0	242.9	419.7	679.6	540.0	407.6	364.8	352.7
82.5°	154.2	141.2	190.4	182.4	172.7	326.1	548.9	441.5	333.3	294.6	291.4
85°	67.0	89.6	125.9	110.6	100.0	226.0	439.9	373.7	281.7	242.9	242.1
87.5°	13.7	33.9	53.3	50.0	51.7	151.0	312.3	265.6	199.4	149.3	117.1
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)