

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: P963710

Luminaire Tested: **NAV-SB3A-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963710
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-SB3A-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 80 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12646.5 lumens
Efficiency: N/A
Efficacy: 149.3 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



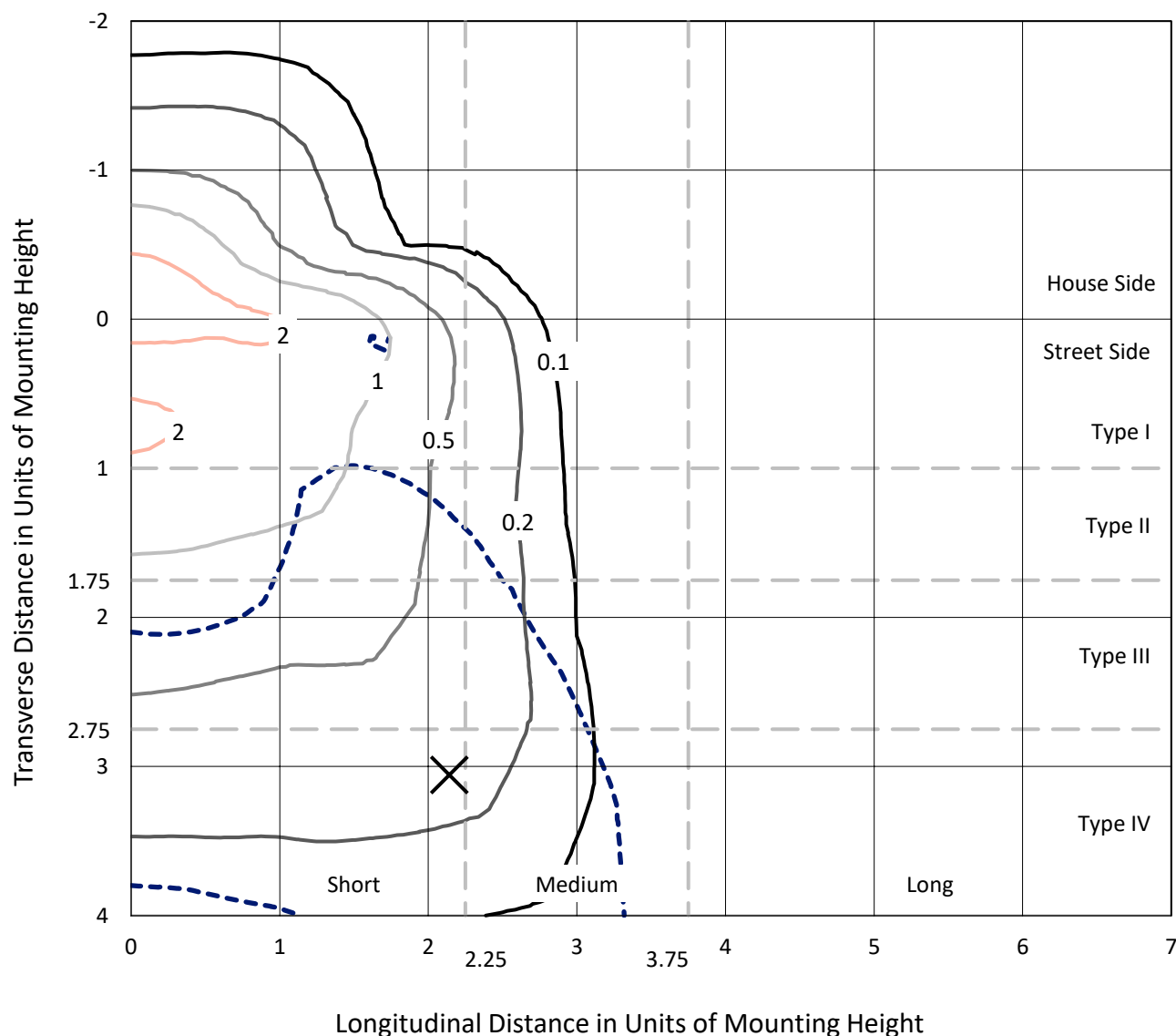
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

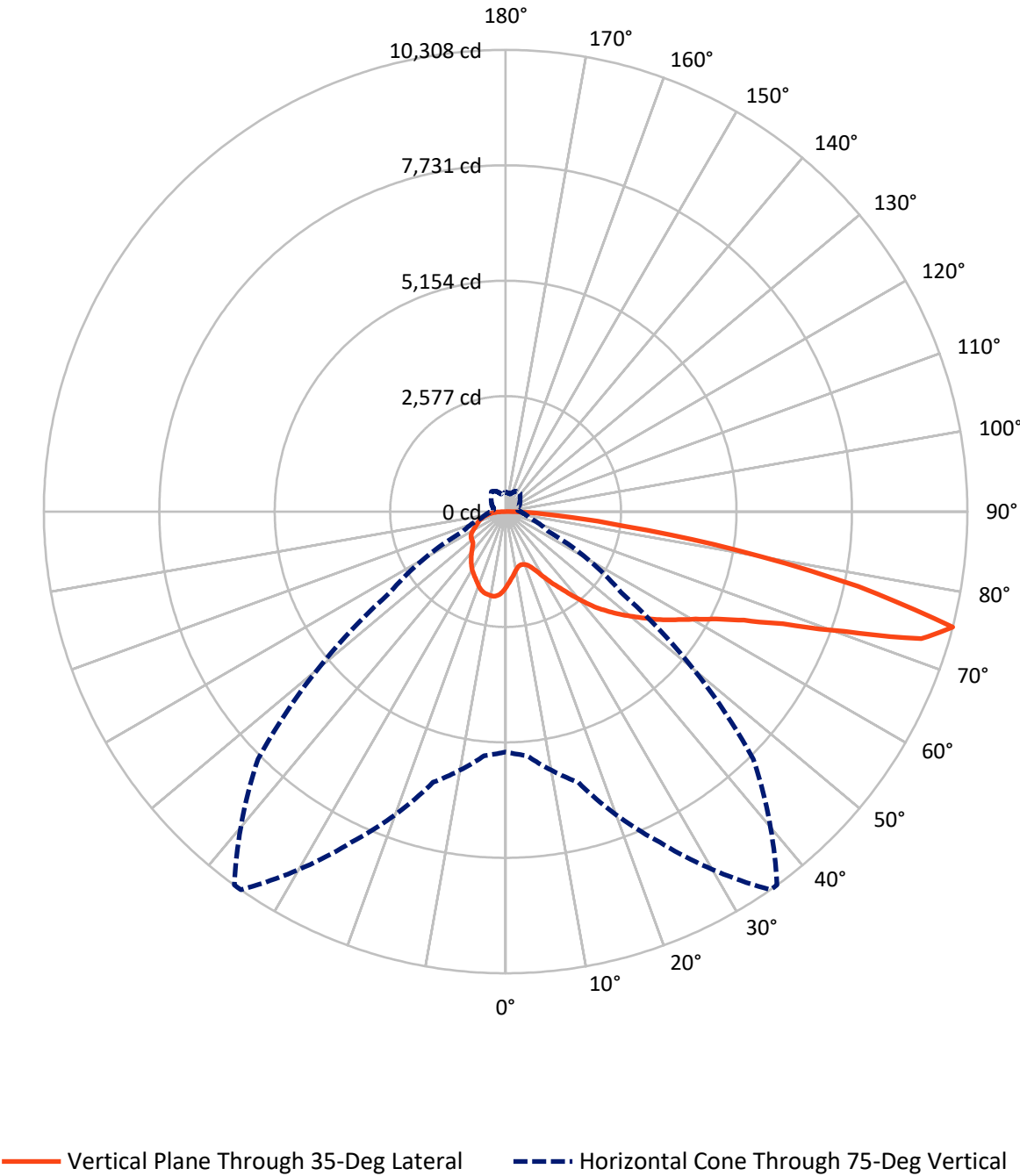


Based on 25 foot mounting height. Maximum calculated value = 3 fc

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	3009.5	0.0	3009.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	9636.9	0.0	9636.9
	% Fixture	76.2	0.0	76.2
Total	Lumens	12646.5	0.0	12646.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.6	1.3
10°-20°	460.2	3.6
20°-30°	772.8	6.1
30°-40°	1201.1	9.5
40°-50°	1782.8	14.1
50°-60°	2461.2	19.5
60°-70°	2986.0	23.6
70°-80°	2467.7	19.5
80°-90°	354.9	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°	12646.5	100.0
0°-180°	12646.5	100.0

Coefficient of Utilization



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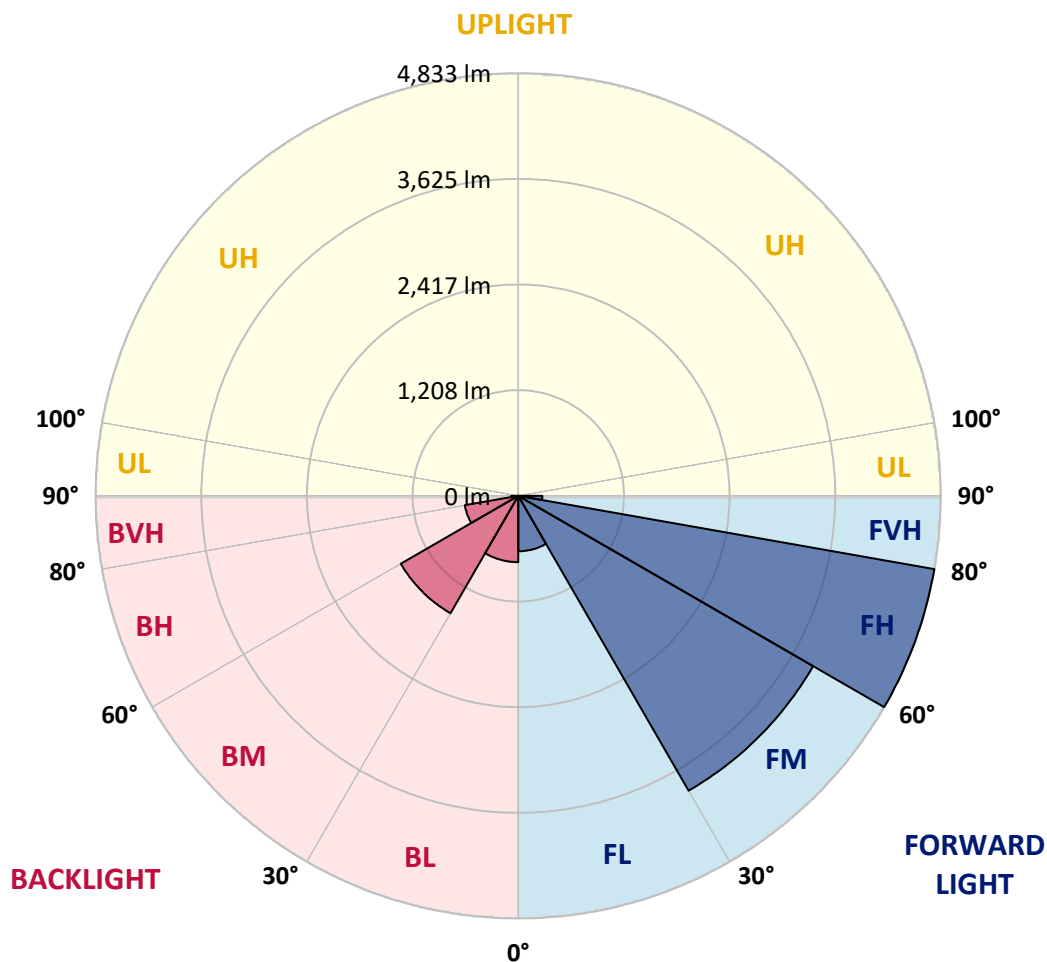
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	634.2	5.0			
FM	(30°-60°)	3894.4	30.8			
FH	(60°-80°)	4833.3	38.2			G2/5000
FVH	(80°-90°)	275.0	2.2			G3/500
BL	(0°-30°)	758.4	6.0	B2/1000		
BM	(30°-60°)	1550.7	12.3	B2/2500		
BH	(60°-80°)	620.5	4.9	B2/1000		G2/1000
BVH	(80°-90°)	79.9	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°	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2
2.5°	1554.0	1563.5	1567.6	1565.6	1575.8	1574.5	1588.9	1606.6	1631.2	1655.2	1690.0
5°	1434.3	1444.5	1453.4	1461.6	1481.5	1487.7	1510.2	1544.4	1589.5	1635.3	1692.8
7.5°	1322.9	1331.8	1345.4	1360.5	1394.0	1400.1	1437.8	1491.1	1554.0	1620.9	1700.3
10°	1231.9	1240.9	1255.2	1272.3	1313.9	1321.5	1369.4	1440.4	1522.5	1607.3	1708.5
12.5°	1193.0	1195.8	1204.0	1221.0	1257.3	1262.1	1314.7	1396.0	1491.8	1597.1	1720.8
15°	1190.9	1196.4	1197.1	1206.0	1236.0	1238.1	1286.7	1367.4	1472.6	1595.0	1739.2
17.5°	1211.4	1215.5	1209.4	1214.8	1240.1	1243.5	1281.9	1353.6	1466.5	1603.9	1770.7
20°	1266.2	1269.6	1251.1	1243.5	1262.1	1264.7	1302.4	1362.5	1472.6	1622.4	1813.7
22.5°	1382.3	1384.4	1339.3	1308.5	1309.8	1311.3	1344.1	1398.8	1496.5	1655.8	1868.5
25°	1563.5	1562.2	1490.4	1430.9	1396.8	1389.2	1411.1	1457.6	1536.9	1700.3	1938.9
27.5°	1775.5	1765.3	1693.4	1604.5	1530.0	1519.0	1514.3	1534.1	1594.3	1759.1	2025.0
30°	2014.7	2005.2	1927.9	1811.7	1708.5	1690.7	1645.5	1635.3	1679.8	1839.1	2144.6
32.5°	2277.2	2271.1	2178.8	2038.0	1899.9	1879.3	1803.5	1776.1	1811.0	1960.1	2311.5
35°	2497.4	2492.0	2415.4	2270.5	2101.6	2076.2	1999.1	1968.3	1986.0	2115.3	2529.6
37.5°	2696.4	2693.6	2628.0	2513.8	2339.5	2308.7	2221.9	2211.6	2208.3	2319.7	2794.1
40°	2881.0	2874.1	2805.7	2745.6	2616.4	2588.3	2511.8	2502.8	2476.9	2571.2	3093.6
42.5°	3085.4	3067.6	2968.5	2940.4	2905.6	2882.3	2836.5	2837.9	2780.4	2854.9	3410.8
45°	3252.2	3242.0	3140.1	3123.7	3161.2	3151.7	3191.3	3201.6	3090.2	3152.4	3740.3
47.5°	3431.3	3421.8	3335.6	3324.0	3425.9	3428.5	3568.7	3572.1	3392.3	3461.4	4070.5
50°	3652.1	3638.4	3553.0	3567.3	3681.5	3691.7	3948.1	3924.9	3670.6	3775.2	4398.0
52.5°	3797.7	3805.9	3787.5	3810.7	3966.6	3976.2	4321.4	4262.0	3946.0	4084.8	4719.3
55°	3905.0	3921.4	3978.9	4032.2	4267.4	4277.0	4673.5	4582.6	4174.4	4372.0	5021.5
57.5°	4043.2	4019.9	4127.3	4231.2	4553.2	4578.5	5016.0	4891.6	4376.8	4619.5	5228.6
60°	4241.4	4225.0	4308.4	4462.2	4873.2	4913.4	5378.4	5169.9	4525.2	4815.8	5269.0
62.5°	4643.5	4602.5	4615.4	4751.5	5276.5	5329.8	5787.2	5412.5	4599.0	4892.3	5052.9
65°	5244.4	5174.0	5108.3	5202.7	5844.7	5897.2	6248.7	5603.3	4571.6	4743.9	4479.4
67.5°	6001.2	5931.5	5850.8	5939.7	6681.5	6723.1	6818.2	5710.6	4356.2	4172.4	3465.5
70°	6625.4	6599.4	6695.8	7061.5	8018.0	8019.4	7548.3	5621.7	3766.3	2958.3	2005.2
72.5°	6542.7	6526.9	7034.9	8165.7	9702.5	9666.3	8239.5	4949.0	2537.1	1334.6	751.3
75°	5367.4	5469.3	6256.2	8145.8	10307.6	10302.8	7816.3	3146.2	1049.4	553.1	388.3
77.5°	2878.2	3039.5	4061.7	6014.2	8046.7	8167.7	5495.2	1100.6	450.5	354.1	268.7
80°	938.7	1079.5	1618.9	3062.1	5228.6	5206.1	2355.2	432.0	308.3	250.9	185.9
82.5°	398.6	415.0	723.3	1446.0	2683.3	2641.6	750.0	248.2	216.7	171.6	114.9
85°	155.9	174.4	319.3	668.6	1162.2	1136.9	270.7	123.1	138.8	112.1	68.4
87.5°	51.2	62.2	114.2	229.0	361.6	348.7	66.3	42.4	60.2	51.2	24.6
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°	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2	1685.2
2.5°	1699.6	1710.5	1723.5	1742.6	1759.1	1772.7	1787.1	1796.0	1799.4	1809.6	1808.9
5°	1711.9	1735.8	1767.9	1799.4	1830.1	1848.6	1865.0	1873.2	1880.8	1886.2	1887.5
7.5°	1732.4	1763.2	1813.7	1854.7	1880.8	1895.8	1906.7	1904.0	1906.7	1908.1	1910.2
10°	1750.2	1793.2	1853.4	1892.4	1912.2	1912.9	1910.2	1900.6	1895.8	1896.5	1897.9
12.5°	1771.4	1819.3	1884.2	1917.0	1922.5	1907.4	1895.8	1879.3	1873.2	1870.5	1869.1
15°	1800.1	1854.7	1917.7	1930.0	1916.3	1897.2	1877.3	1850.6	1837.0	1826.0	1829.5
17.5°	1835.0	1895.1	1943.6	1934.8	1905.4	1873.9	1841.8	1801.4	1773.5	1761.8	1762.5
20°	1883.4	1937.5	1963.5	1924.5	1880.1	1832.2	1777.6	1728.3	1702.3	1690.7	1689.3
22.5°	1942.3	1994.2	1982.7	1906.7	1843.9	1767.3	1698.9	1662.7	1649.6	1641.4	1642.9
25°	2012.7	2057.2	1996.3	1880.8	1784.3	1681.1	1628.5	1616.8	1610.7	1604.5	1604.5
27.5°	2104.3	2128.2	2006.5	1842.4	1691.4	1589.5	1570.4	1572.5	1570.4	1560.2	1562.2
30°	2225.3	2220.6	2016.1	1780.2	1584.8	1506.7	1508.2	1517.0	1518.4	1511.6	1514.9
32.5°	2384.6	2336.1	2020.9	1699.6	1482.9	1434.3	1435.7	1445.2	1452.1	1440.4	1446.0
35°	2577.4	2470.8	2013.4	1598.4	1404.2	1365.3	1355.0	1357.7	1359.8	1348.9	1356.4
37.5°	2802.4	2621.8	1979.9	1486.2	1339.3	1297.5	1275.7	1257.3	1246.3	1236.0	1242.9
40°	3049.2	2786.6	1918.4	1376.9	1266.8	1225.8	1193.0	1158.1	1121.2	1107.5	1113.7
42.5°	3307.6	2956.2	1843.9	1272.3	1183.5	1149.9	1115.1	1064.5	1009.1	981.0	984.5
45°	3575.5	3129.8	1770.7	1169.0	1098.0	1083.6	1043.2	982.5	922.3	886.7	884.0
47.5°	3838.1	3293.8	1663.4	1065.2	1017.9	1033.7	1002.2	946.2	879.1	823.2	816.9
50°	4088.9	3447.7	1487.7	959.8	953.0	1018.6	988.6	907.9	831.4	759.5	753.4
52.5°	4337.8	3572.1	1262.7	864.2	918.2	1014.5	970.8	881.9	788.2	713.1	704.9
55°	4549.1	3636.4	1046.0	782.1	867.6	979.7	949.6	851.2	727.4	647.4	640.6
57.5°	4669.4	3584.4	865.5	701.4	797.9	922.3	913.4	785.6	655.0	593.4	585.2
60°	4617.4	3373.9	717.8	631.0	731.5	860.1	850.4	720.6	599.5	541.5	533.2
62.5°	4331.0	2972.6	601.0	569.5	671.4	796.4	787.6	670.7	557.2	501.1	492.2
65°	3754.0	2418.1	510.0	518.2	610.5	719.9	732.9	628.9	523.7	469.0	460.1
67.5°	2863.1	1751.5	438.9	473.8	551.0	644.7	682.3	598.9	495.7	443.7	435.5
70°	1631.9	994.8	378.7	430.7	498.4	574.9	643.3	574.9	465.6	422.5	417.1
72.5°	618.7	456.6	327.5	387.7	447.8	516.2	600.2	537.4	430.7	398.6	393.1
75°	330.3	278.3	275.5	337.0	389.7	458.7	546.2	500.4	404.8	421.2	434.8
77.5°	224.9	196.9	230.4	288.5	326.2	395.1	488.8	444.3	350.8	349.3	322.1
80°	155.9	139.5	187.4	232.5	252.3	332.3	426.6	381.5	285.8	266.6	255.0
82.5°	93.7	90.9	140.1	173.6	178.5	256.4	353.4	319.9	233.8	203.8	205.1
85°	51.2	54.0	89.6	101.9	103.9	179.2	276.9	247.4	179.8	151.1	152.4
87.5°	14.3	18.4	32.8	40.4	49.9	93.0	164.7	147.0	90.2	62.9	62.9
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)