

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: P962656

Luminaire Tested: **NAV-SB2C-835-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962656
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-835-U-T4FT
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14073.2 lumens
Efficiency: N/A
Efficacy: 139.5 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



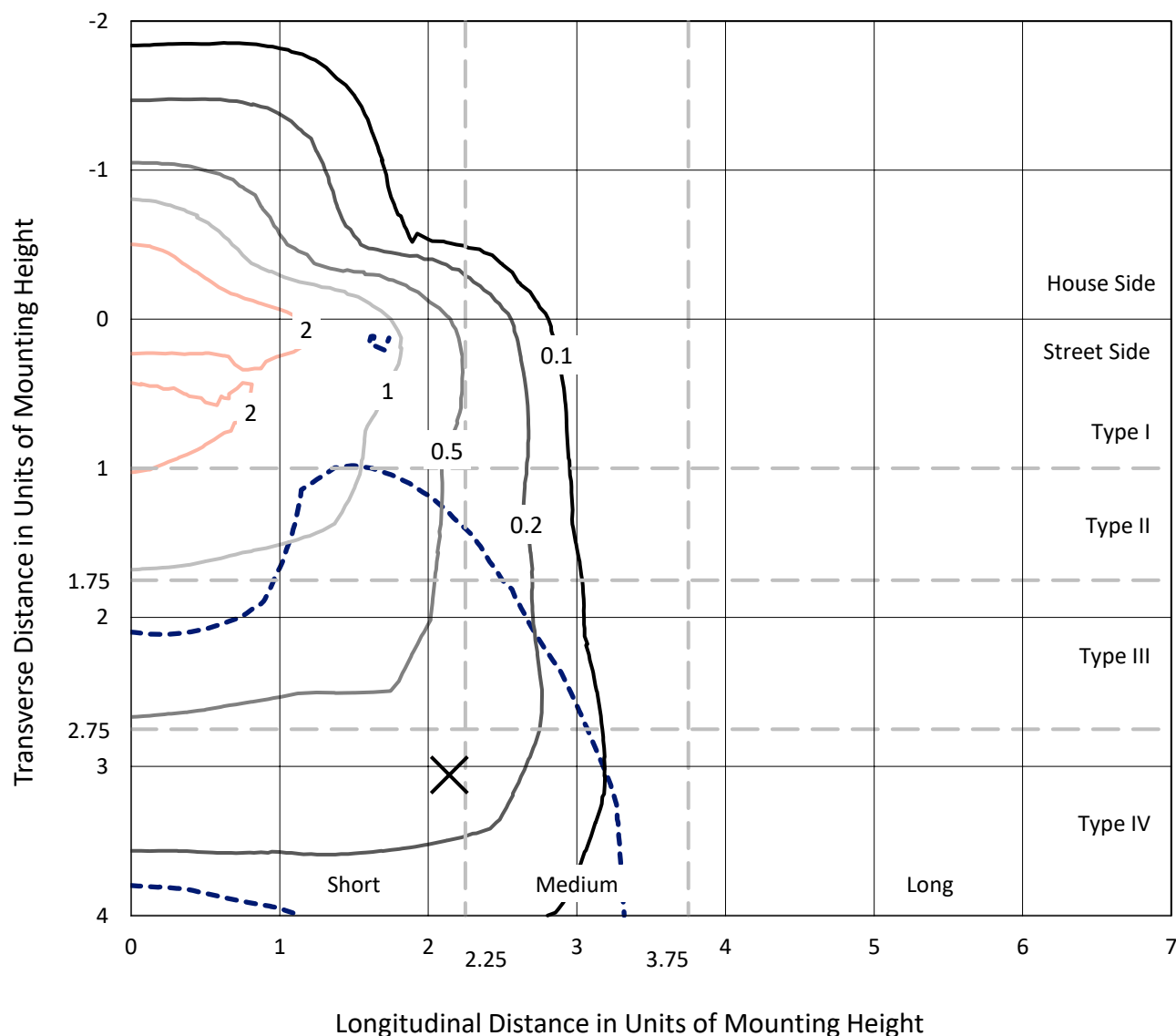
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

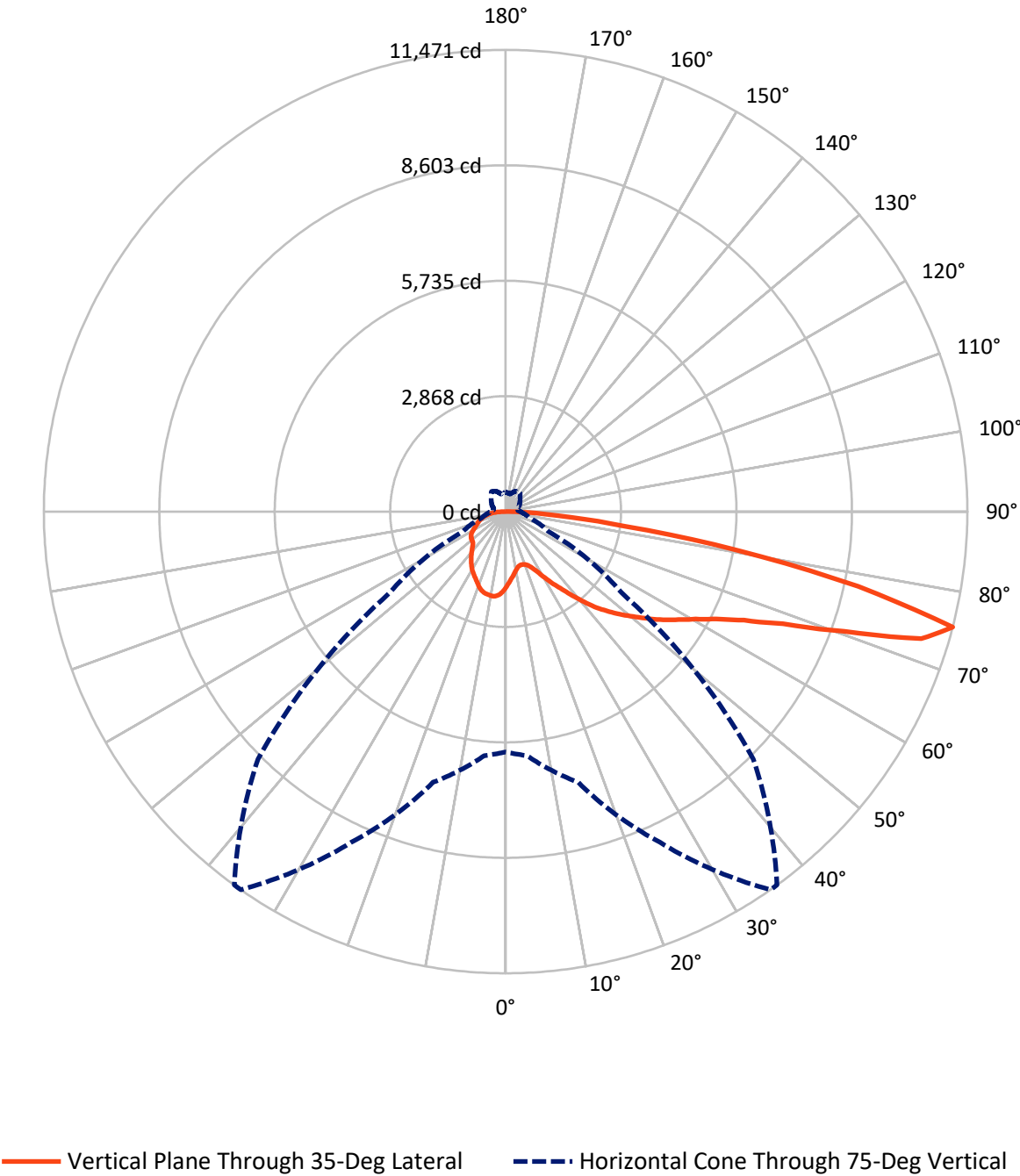


Based on 25 foot mounting height. Maximum calculated value = 3.3 fc

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	3349.1	0.0	3349.1
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	10724.2	0.0	10724.2
	% Fixture	76.2	0.0	76.2
Total	Lumens	14073.2	0.0	14073.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	177.6	1.3
10°-20°	512.2	3.6
20°-30°	860.0	6.1
30°-40°	1336.6	9.5
40°-50°	1983.9	14.1
50°-60°	2738.9	19.5
60°-70°	3322.9	23.6
70°-80°	2746.1	19.5
80°-90°	395.0	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°	14073.2	100.0
0°-180°	14073.2	100.0

Coefficient of Utilization



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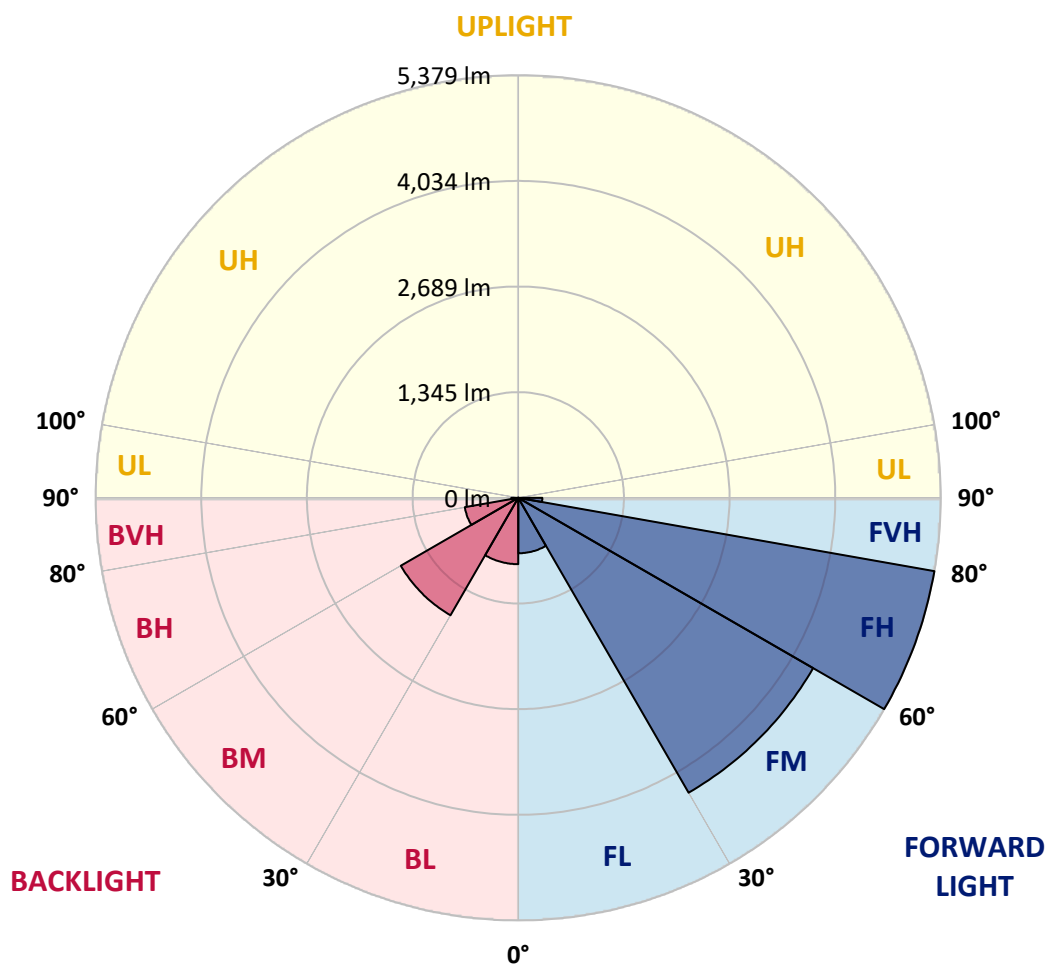
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	705.7	5.0			
FM	(30°-60°)	4333.8	30.8			
FH	(60°-80°)	5378.6	38.2			G3/7500
FVH	(80°-90°)	306.0	2.2			G3/500
BL	(0°-30°)	844.0	6.0	B2/1000		
BM	(30°-60°)	1725.7	12.3	B2/2500		
BH	(60°-80°)	690.5	4.9	B2/1000		G2/1000
BVH	(80°-90°)	88.9	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°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1729.3	1739.9	1744.6	1742.2	1753.7	1752.1	1768.1	1787.9	1815.3	1841.9	1880.7
5°	1596.1	1607.5	1617.4	1626.6	1648.6	1655.5	1680.6	1718.6	1768.8	1819.8	1883.7
7.5°	1472.1	1482.0	1497.2	1514.0	1551.2	1558.1	1599.9	1659.3	1729.3	1803.8	1892.0
10°	1370.9	1380.9	1396.8	1415.8	1462.3	1470.6	1523.9	1603.0	1694.3	1788.6	1901.3
12.5°	1327.6	1330.7	1339.8	1358.7	1399.1	1404.5	1463.0	1553.5	1660.1	1777.2	1914.9
15°	1325.3	1331.4	1332.2	1342.0	1375.6	1377.8	1431.8	1521.6	1638.8	1774.9	1935.5
17.5°	1348.1	1352.7	1345.8	1352.0	1380.1	1383.9	1426.5	1506.3	1631.9	1784.8	1970.5
20°	1409.0	1412.8	1392.3	1383.9	1404.5	1407.4	1449.4	1516.3	1638.8	1805.3	2018.4
22.5°	1538.3	1540.6	1490.4	1456.1	1457.7	1459.2	1495.7	1556.6	1665.4	1842.6	2079.2
25°	1739.9	1738.4	1658.6	1592.3	1554.3	1545.9	1570.3	1622.1	1710.2	1892.0	2157.6
27.5°	1975.8	1964.4	1884.5	1785.6	1702.6	1690.5	1685.2	1707.2	1774.2	1957.5	2253.5
30°	2242.1	2231.4	2145.4	2016.1	1901.3	1881.5	1831.3	1819.8	1869.3	2046.5	2386.6
32.5°	2534.2	2527.3	2424.6	2267.9	2114.3	2091.4	2007.0	1976.5	2015.4	2181.2	2572.2
35°	2779.2	2773.1	2687.9	2526.6	2338.6	2310.6	2224.6	2190.3	2210.1	2353.9	2815.0
37.5°	3000.6	2997.5	2924.5	2797.4	2603.4	2569.2	2472.6	2461.1	2457.3	2581.4	3109.3
40°	3206.0	3198.4	3122.3	3055.3	2911.5	2880.4	2795.2	2785.2	2756.3	2861.4	3442.6
42.5°	3433.4	3413.7	3303.4	3272.2	3233.4	3207.5	3156.5	3158.0	3094.2	3177.1	3795.6
45°	3619.1	3607.7	3494.3	3476.1	3517.9	3507.2	3551.4	3562.8	3438.8	3508.1	4162.3
47.5°	3818.4	3807.8	3711.9	3699.0	3812.4	3815.4	3971.4	3975.2	3775.1	3851.8	4529.8
50°	4064.1	4049.0	3953.8	3969.8	4096.8	4108.3	4393.6	4367.7	4084.7	4201.1	4894.2
52.5°	4226.2	4235.3	4214.8	4240.6	4414.2	4424.8	4809.0	4742.8	4391.3	4545.8	5251.8
55°	4345.7	4363.9	4427.8	4487.1	4748.8	4759.5	5200.7	5099.6	4645.4	4865.3	5588.0
57.5°	4499.3	4473.5	4592.9	4708.5	5066.9	5095.1	5581.9	5443.5	4870.6	5140.7	5818.5
60°	4719.9	4701.7	4794.5	4965.7	5423.0	5467.9	5985.2	5753.1	5035.7	5359.0	5863.4
62.5°	5167.3	5121.6	5136.1	5287.6	5871.8	5931.2	6440.1	6023.2	5117.8	5444.3	5623.0
65°	5836.0	5757.7	5684.6	5789.6	6504.0	6562.6	6953.7	6235.5	5087.4	5279.2	4984.7
67.5°	6678.3	6600.7	6510.9	6609.8	7435.2	7481.7	7587.4	6354.9	4847.7	4643.1	3856.5
70°	7372.8	7343.9	7451.2	7858.3	8922.6	8924.1	8399.9	6256.0	4191.2	3292.0	2231.4
72.5°	7280.8	7263.3	7828.5	9086.9	10797.1	10756.9	9169.0	5507.4	2823.3	1485.0	836.1
75°	5973.0	6086.3	6962.0	9064.9	11470.5	11465.1	8698.2	3501.2	1167.8	615.5	432.1
77.5°	3202.9	3382.5	4519.8	6692.7	8954.5	9089.2	6115.3	1224.9	501.3	394.1	299.0
80°	1044.6	1201.3	1801.5	3407.6	5818.5	5793.4	2620.9	480.8	343.1	279.2	206.9
82.5°	443.5	461.8	804.9	1609.0	2986.1	2939.7	834.6	276.1	241.2	191.0	127.8
85°	173.4	194.0	355.3	744.0	1293.3	1265.2	301.2	136.9	154.5	124.7	76.1
87.5°	57.1	69.2	127.1	254.8	402.4	388.0	73.8	47.2	66.9	57.1	27.4
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°	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3	1875.3
2.5°	1891.3	1903.5	1918.0	1939.3	1957.5	1972.7	1988.7	1998.6	2002.4	2013.8	2013.1
5°	1905.1	1931.6	1967.4	2002.4	2036.7	2057.2	2075.4	2084.5	2092.9	2099.0	2100.5
7.5°	1927.8	1962.1	2018.4	2064.0	2092.9	2109.7	2121.9	2118.8	2121.9	2123.4	2125.6
10°	1947.6	1995.6	2062.5	2105.9	2127.9	2128.7	2125.6	2115.0	2109.7	2110.5	2112.0
12.5°	1971.2	2024.5	2096.7	2133.2	2139.4	2122.6	2109.7	2091.4	2084.5	2081.6	2080.0
15°	2003.2	2064.0	2134.0	2147.7	2132.5	2111.2	2089.2	2059.4	2044.3	2032.1	2035.9
17.5°	2042.0	2108.9	2163.0	2153.0	2120.3	2085.4	2049.6	2004.7	1973.5	1960.5	1961.3
20°	2096.0	2156.1	2185.0	2141.6	2092.2	2038.9	1978.0	1923.3	1894.4	1881.5	1880.0
22.5°	2161.4	2219.2	2206.3	2121.9	2051.8	1966.7	1890.6	1850.2	1835.8	1826.7	1828.2
25°	2239.7	2289.2	2221.5	2092.9	1985.6	1870.8	1812.2	1799.3	1792.4	1785.6	1785.6
27.5°	2341.7	2368.4	2233.0	2050.3	1882.2	1768.8	1747.5	1749.8	1747.5	1736.1	1738.4
30°	2476.4	2471.1	2243.6	1981.1	1763.5	1676.8	1678.3	1688.2	1689.7	1682.1	1685.9
32.5°	2653.6	2599.6	2249.0	1891.3	1650.1	1596.1	1597.7	1608.3	1615.9	1603.0	1609.0
35°	2868.2	2749.5	2240.5	1778.8	1562.7	1519.3	1507.9	1511.0	1513.2	1501.0	1509.4
37.5°	3118.5	2917.7	2203.2	1653.9	1490.4	1444.0	1419.6	1399.1	1386.9	1375.6	1383.1
40°	3393.2	3101.0	2134.8	1532.3	1409.8	1364.1	1327.6	1288.8	1247.7	1232.5	1239.3
42.5°	3680.7	3289.6	2051.8	1415.8	1316.9	1279.6	1240.9	1184.6	1122.9	1091.7	1095.5
45°	3978.9	3483.0	1970.5	1300.9	1221.8	1205.8	1161.0	1093.3	1026.3	986.8	983.7
47.5°	4271.1	3665.5	1851.0	1185.3	1132.8	1150.4	1115.3	1053.0	978.4	916.0	909.2
50°	4550.3	3836.7	1655.5	1068.2	1060.6	1133.5	1100.1	1010.3	925.2	845.2	838.3
52.5°	4827.2	3975.2	1405.2	961.7	1021.7	1129.0	1080.4	981.4	877.2	793.6	784.3
55°	5062.3	4046.7	1164.0	870.3	965.4	1090.2	1056.8	947.2	809.4	720.5	712.9
57.5°	5196.2	3988.9	963.2	780.5	887.9	1026.3	1016.4	874.1	728.9	660.4	651.3
60°	5138.4	3754.5	798.8	702.2	814.1	957.0	946.4	801.9	667.2	602.6	593.4
62.5°	4819.7	3307.9	668.7	633.8	747.1	886.3	876.5	746.3	620.0	557.7	547.8
65°	4177.5	2690.9	567.5	576.7	679.4	801.1	815.6	700.0	582.8	521.9	512.0
67.5°	3186.2	1949.1	488.4	527.3	613.2	717.4	759.3	666.5	551.6	493.7	484.6
70°	1816.0	1107.0	421.5	479.3	554.6	639.8	715.9	639.8	518.1	470.2	464.1
72.5°	688.5	508.2	364.4	431.3	498.4	574.4	668.0	598.0	479.3	443.5	437.5
75°	367.5	309.7	306.6	375.0	433.7	510.4	607.8	556.9	450.4	468.6	483.9
77.5°	250.3	219.1	256.4	321.0	362.8	439.7	544.0	494.6	390.3	388.8	358.3
80°	173.4	155.2	208.5	258.7	280.7	369.7	474.8	424.6	318.1	296.7	283.8
82.5°	104.2	101.2	156.0	193.2	198.5	285.3	393.3	356.1	260.1	226.7	228.3
85°	57.1	60.1	99.6	113.4	115.6	199.4	308.1	275.4	200.1	168.1	169.6
87.5°	16.0	20.5	36.5	44.9	55.6	103.4	183.4	163.6	100.4	70.0	70.0
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)