

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: P962596

Luminaire Tested: **NAV-SB2C-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962596
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-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

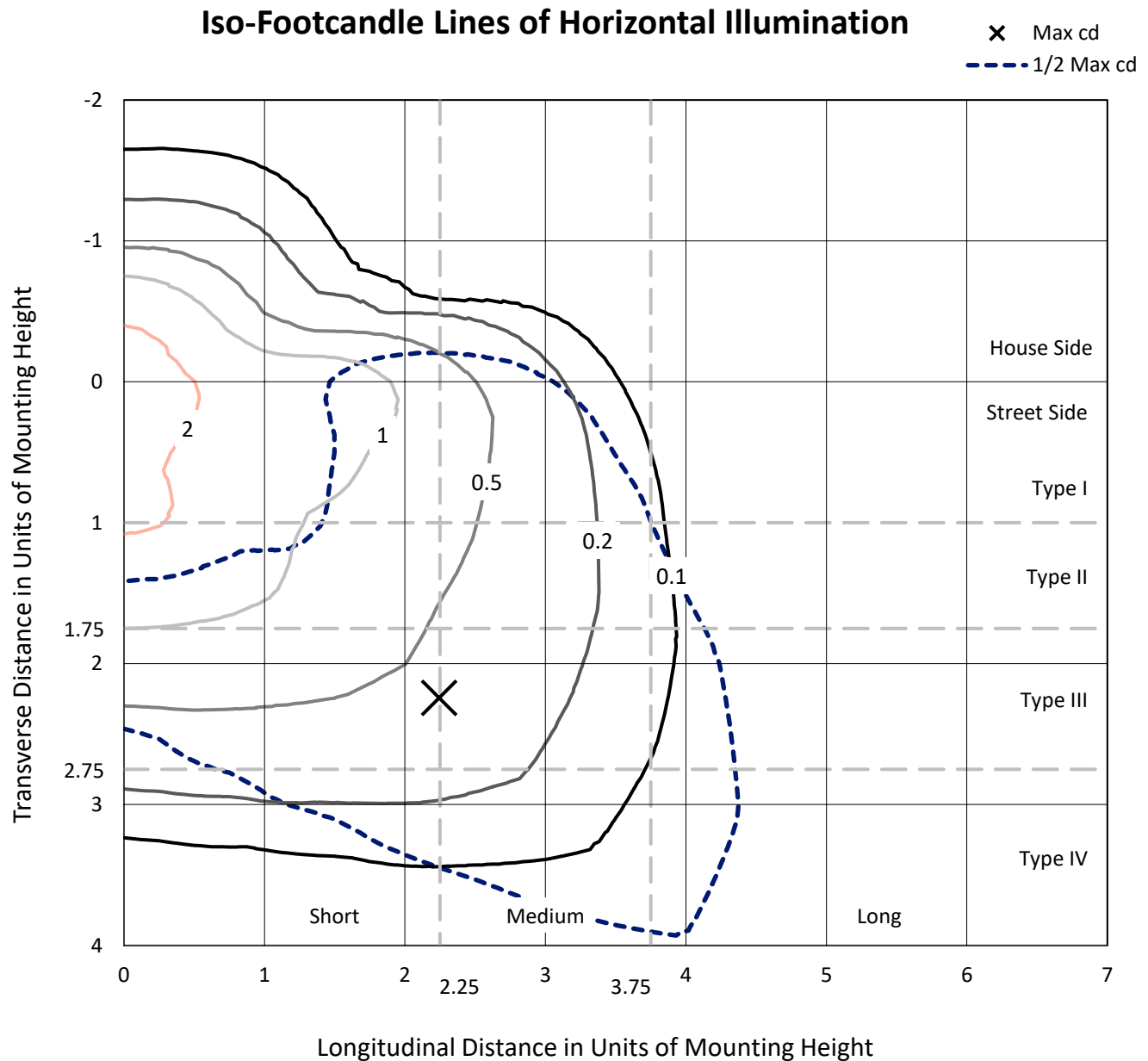
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13322.9 lumens
Efficiency: N/A
Efficacy: 132.0 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



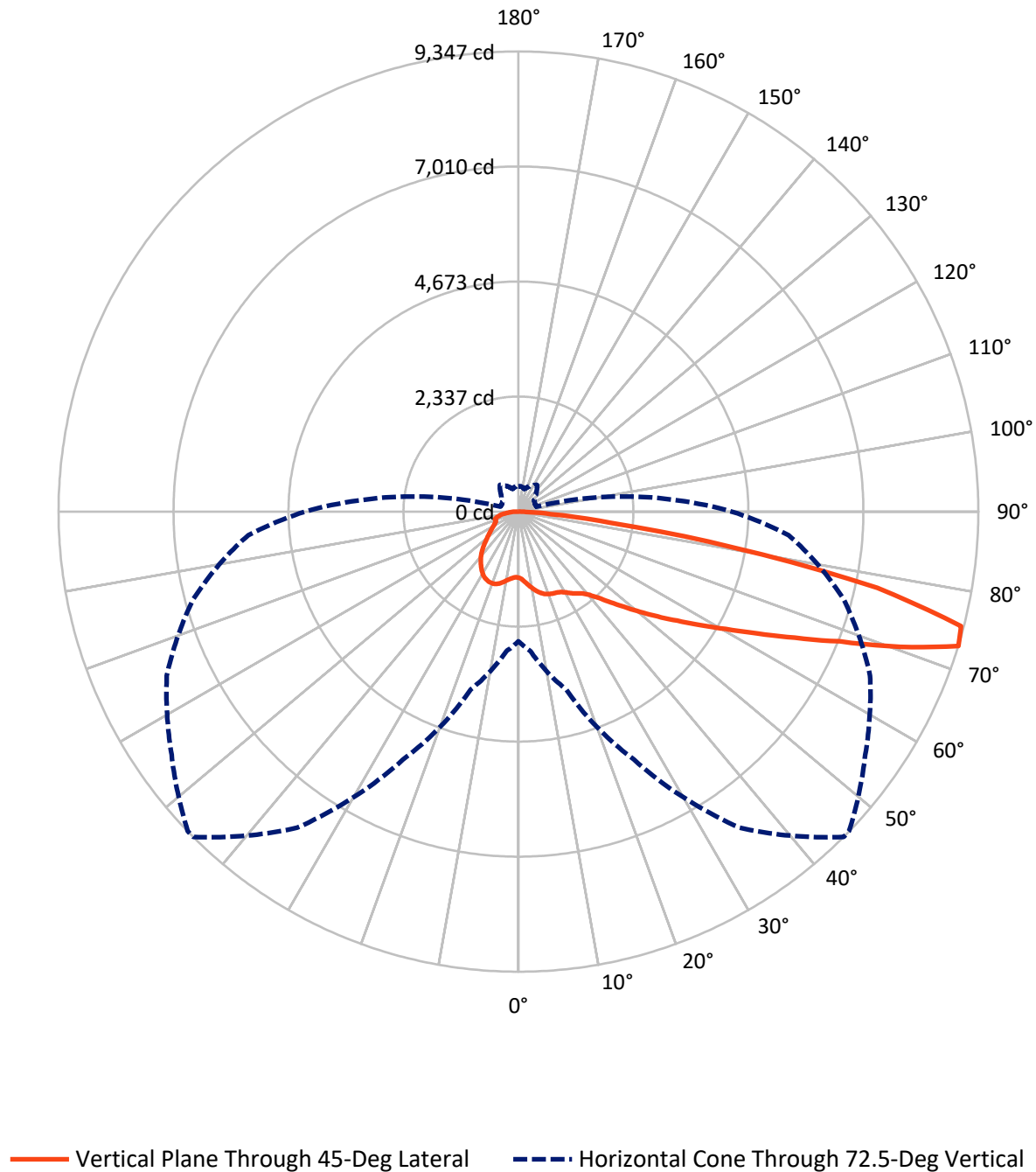
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Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3011.9	0.0	3011.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	10311.1	0.0	10311.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	13322.9	0.0	13322.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.8	1.0
10°-20°	456.1	3.4
20°-30°	793.4	6.0
30°-40°	1137.4	8.5
40°-50°	1601.5	12.0
50°-60°	2453.0	18.4
60°-70°	3553.6	26.7
70°-80°	2837.7	21.3
80°-90°	353.4	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°	13322.9	100.0
0°-180°	13322.9	100.0

Coefficient of Utilization



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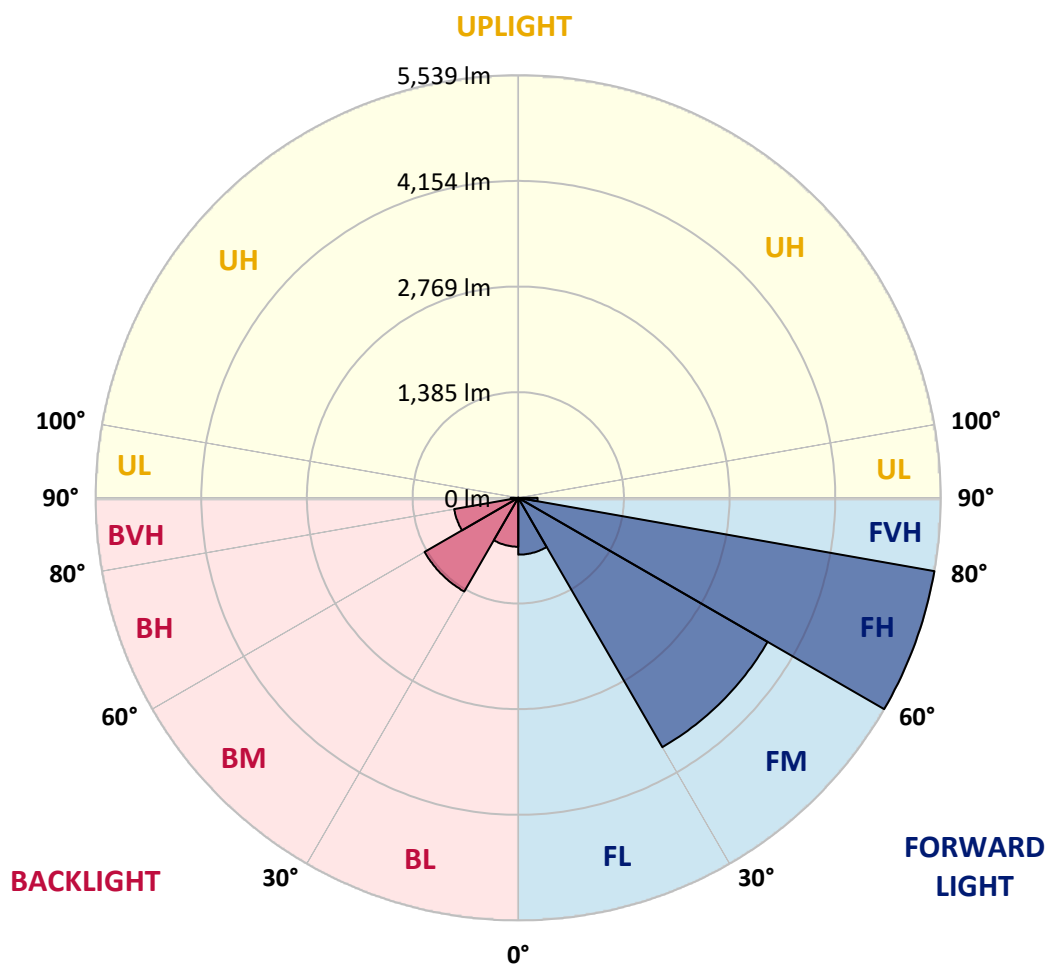
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	745.0	5.6			
FM	(30°-60°)	3773.7	28.3			
FH	(60°-80°)	5538.7	41.6			G3/7500
FVH	(80°-90°)	253.6	1.9			G3/500
BL	(0°-30°)	641.3	4.8	B2/1000		
BM	(30°-60°)	1418.2	10.6	B2/2500		
BH	(60°-80°)	852.6	6.4	B2/1000		G2/1000
BVH	(80°-90°)	99.9	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°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0
2.5°	1396.7	1405.8	1397.4	1389.7	1386.1	1377.0	1376.3	1370.7	1367.1	1357.4	1354.5
5°	1494.2	1506.1	1492.1	1476.7	1462.7	1440.2	1437.4	1421.3	1403.0	1381.9	1370.0
7.5°	1604.4	1614.9	1598.8	1575.6	1551.0	1513.8	1513.2	1483.7	1454.9	1419.1	1398.8
10°	1700.6	1714.6	1692.9	1661.2	1630.4	1588.2	1583.3	1549.7	1513.2	1466.9	1435.9
12.5°	1785.4	1795.3	1774.3	1735.6	1699.9	1657.7	1651.5	1614.3	1573.5	1520.9	1481.6
15°	1852.9	1865.5	1837.4	1796.0	1758.1	1716.7	1711.1	1677.4	1636.7	1581.3	1530.7
17.5°	1897.1	1907.6	1878.8	1832.5	1796.0	1761.7	1757.4	1729.4	1693.5	1637.4	1583.3
20°	1913.9	1925.2	1895.0	1848.0	1814.2	1787.6	1785.4	1765.2	1740.6	1689.3	1634.6
22.5°	1930.8	1941.2	1902.0	1852.9	1823.4	1806.6	1805.8	1792.5	1782.7	1740.6	1687.3
25°	1998.9	2001.6	1949.0	1878.1	1836.0	1821.3	1820.6	1819.9	1824.1	1791.1	1744.0
27.5°	2057.8	2057.1	2012.2	1945.6	1880.3	1849.3	1848.7	1855.7	1869.0	1841.6	1803.1
30°	2144.1	2136.4	2083.1	2013.6	1954.0	1906.2	1902.0	1895.6	1906.2	1884.5	1862.0
32.5°	2327.3	2302.8	2216.5	2092.8	2014.9	1978.5	1972.9	1933.6	1937.8	1924.4	1913.3
35°	2589.8	2557.5	2442.4	2243.1	2090.8	2038.8	2036.1	1986.2	1977.8	1965.8	1970.0
37.5°	2902.1	2862.1	2728.0	2460.6	2221.3	2109.0	2104.8	2059.9	2025.5	2012.9	2036.8
40°	3215.8	3165.3	3054.4	2726.0	2413.7	2226.2	2212.9	2144.8	2105.6	2084.4	2135.0
42.5°	3520.5	3478.3	3383.6	3023.5	2650.9	2397.5	2368.1	2251.5	2222.0	2202.4	2293.6
45°	3789.9	3752.0	3682.5	3341.5	2928.8	2630.5	2601.8	2411.5	2402.4	2402.4	2534.3
47.5°	4008.9	4000.5	3926.8	3665.7	3256.5	2895.8	2846.0	2634.0	2658.5	2696.5	2876.1
50°	4251.8	4228.6	4150.0	3985.1	3641.8	3199.7	3158.9	2907.0	2998.9	3102.9	3370.2
52.5°	4474.9	4487.6	4399.8	4317.7	4077.0	3538.7	3467.1	3229.2	3427.8	3599.7	3949.2
55°	4704.4	4705.2	4680.6	4669.4	4533.2	3913.4	3834.8	3616.6	3932.4	4145.8	4624.4
57.5°	4919.9	4921.3	4957.8	5056.7	5062.4	4345.8	4256.6	4092.4	4493.2	4710.8	5320.7
60°	5112.2	5122.0	5221.7	5453.3	5527.7	4841.3	4757.1	4654.6	5072.9	5291.9	6052.7
62.5°	5176.8	5212.5	5434.3	5763.5	5987.4	5449.1	5366.3	5305.2	5682.1	5885.7	6664.7
65°	5067.3	5149.4	5578.3	6019.7	6460.5	6171.3	6089.2	6022.5	6315.1	6506.8	7167.2
67.5°	4798.5	4904.4	5569.8	6288.5	7034.6	7040.2	6963.6	6807.1	6993.9	7067.6	7330.7
70°	4090.4	4248.9	5079.2	6388.8	7693.5	8228.4	8154.7	7751.9	7671.1	7314.6	6870.4
72.5°	2635.4	2848.8	3740.1	5562.8	7840.2	9346.5	9342.3	8604.6	7885.2	6834.5	5510.2
75°	961.6	1092.0	1737.8	3491.7	6581.2	9289.6	9316.9	8458.6	7198.1	5279.3	3432.7
77.5°	350.2	383.2	567.1	1341.9	4047.5	7453.6	7510.4	6762.2	5123.5	2649.4	1360.2
80°	183.9	202.1	290.6	520.8	1734.3	4426.6	4515.6	4018.7	2408.0	798.0	407.7
82.5°	101.8	110.2	162.9	282.8	781.2	1892.9	1946.2	1587.5	847.2	338.2	168.4
85°	54.7	58.2	76.5	154.4	381.8	656.2	671.0	474.5	337.6	198.6	81.4
87.5°	16.1	19.7	25.3	49.1	149.4	147.4	150.9	94.1	133.4	100.3	26.6
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°	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0	1344.0
2.5°	1350.3	1348.3	1340.5	1337.0	1332.8	1332.1	1335.6	1336.3	1337.0	1337.7	1340.5
5°	1362.9	1356.0	1348.9	1344.7	1346.1	1346.8	1353.8	1358.7	1362.2	1365.1	1366.5
7.5°	1387.5	1381.9	1370.0	1369.3	1371.3	1377.7	1386.8	1398.1	1404.4	1409.3	1410.7
10°	1424.0	1413.5	1399.4	1401.6	1405.8	1414.9	1433.9	1443.0	1453.6	1462.7	1460.5
12.5°	1461.2	1452.1	1435.9	1437.4	1444.4	1460.5	1478.8	1490.0	1497.0	1504.1	1506.9
15°	1509.6	1493.5	1476.0	1476.0	1488.6	1506.1	1514.5	1523.7	1527.9	1535.7	1538.4
17.5°	1559.5	1538.4	1515.3	1513.8	1529.3	1537.7	1542.6	1544.1	1545.5	1553.9	1556.7
20°	1609.4	1586.2	1553.2	1550.4	1553.9	1552.5	1551.7	1550.4	1552.5	1563.0	1567.2
22.5°	1658.4	1631.8	1586.2	1573.5	1563.7	1550.4	1549.7	1549.0	1550.4	1560.9	1567.9
25°	1716.0	1683.8	1622.7	1584.8	1551.7	1533.5	1535.7	1536.4	1537.7	1546.1	1557.4
27.5°	1778.5	1742.7	1656.3	1581.3	1521.6	1509.0	1505.4	1507.6	1512.5	1525.8	1539.1
30°	1840.9	1798.8	1687.3	1567.2	1483.7	1466.2	1454.9	1459.8	1475.3	1488.6	1503.4
32.5°	1897.8	1855.7	1711.7	1536.4	1435.3	1407.9	1393.2	1399.4	1414.9	1419.8	1437.4
35°	1964.4	1916.7	1722.3	1487.2	1382.6	1340.5	1320.8	1311.7	1319.5	1314.6	1330.0
37.5°	2038.8	1989.0	1720.9	1422.6	1320.8	1272.4	1245.1	1210.6	1194.5	1177.7	1188.2
40°	2149.0	2077.5	1704.1	1344.7	1244.4	1200.2	1151.0	1092.8	1056.3	1023.3	1025.4
42.5°	2299.3	2200.3	1673.2	1259.1	1158.0	1116.6	1049.9	981.8	924.3	869.6	864.7
45°	2523.1	2361.0	1634.6	1167.9	1064.7	1024.0	951.7	875.2	810.0	739.7	731.3
47.5°	2846.0	2577.2	1598.1	1063.9	966.5	929.3	864.0	793.0	715.9	647.8	640.1
50°	3289.5	2887.4	1564.4	962.9	869.6	841.5	789.6	717.3	639.4	584.7	581.2
52.5°	3853.8	3309.2	1550.4	865.4	779.0	768.5	727.1	659.7	586.0	539.8	536.2
55°	4501.6	3813.8	1550.4	772.0	699.8	703.3	674.4	612.0	548.2	506.8	502.6
57.5°	5162.7	4324.8	1522.3	685.7	632.3	647.1	628.8	574.1	516.6	473.8	466.7
60°	5772.0	4752.8	1408.6	607.1	572.7	595.8	583.9	536.9	466.7	430.9	425.3
62.5°	6240.1	4994.3	1189.6	544.6	523.6	550.2	544.0	487.8	457.6	442.9	438.0
65°	6474.5	4955.0	909.6	489.2	482.2	523.6	510.2	508.1	484.3	467.4	461.8
67.5°	6330.6	4616.7	659.7	448.4	458.3	499.0	550.2	558.6	514.4	481.4	475.8
70°	5699.6	4004.7	491.3	409.9	428.1	499.7	627.4	584.7	504.6	466.1	459.7
72.5°	4336.0	2986.3	381.1	369.2	388.8	503.2	661.8	572.7	476.5	515.2	511.0
75°	2479.6	1639.5	306.0	319.3	339.7	470.3	644.3	541.8	454.8	473.0	473.0
77.5°	945.4	630.3	252.7	270.2	273.1	410.6	616.2	539.8	433.1	422.5	385.3
80°	327.8	246.3	209.1	214.7	211.3	365.0	590.9	469.6	354.4	317.2	306.7
82.5°	134.1	122.8	165.6	158.6	150.2	283.5	477.2	383.9	289.9	256.1	253.4
85°	58.2	77.9	109.5	96.1	87.0	196.5	382.5	324.9	245.0	211.3	210.5
87.5°	11.9	29.5	46.3	43.6	44.9	131.2	271.6	230.9	173.3	129.9	101.8
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)