

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: P963414

Luminaire Tested: **NAV-SB3A-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3A-722-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11296.5 lumens
Efficiency: N/A
Efficacy: 133.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

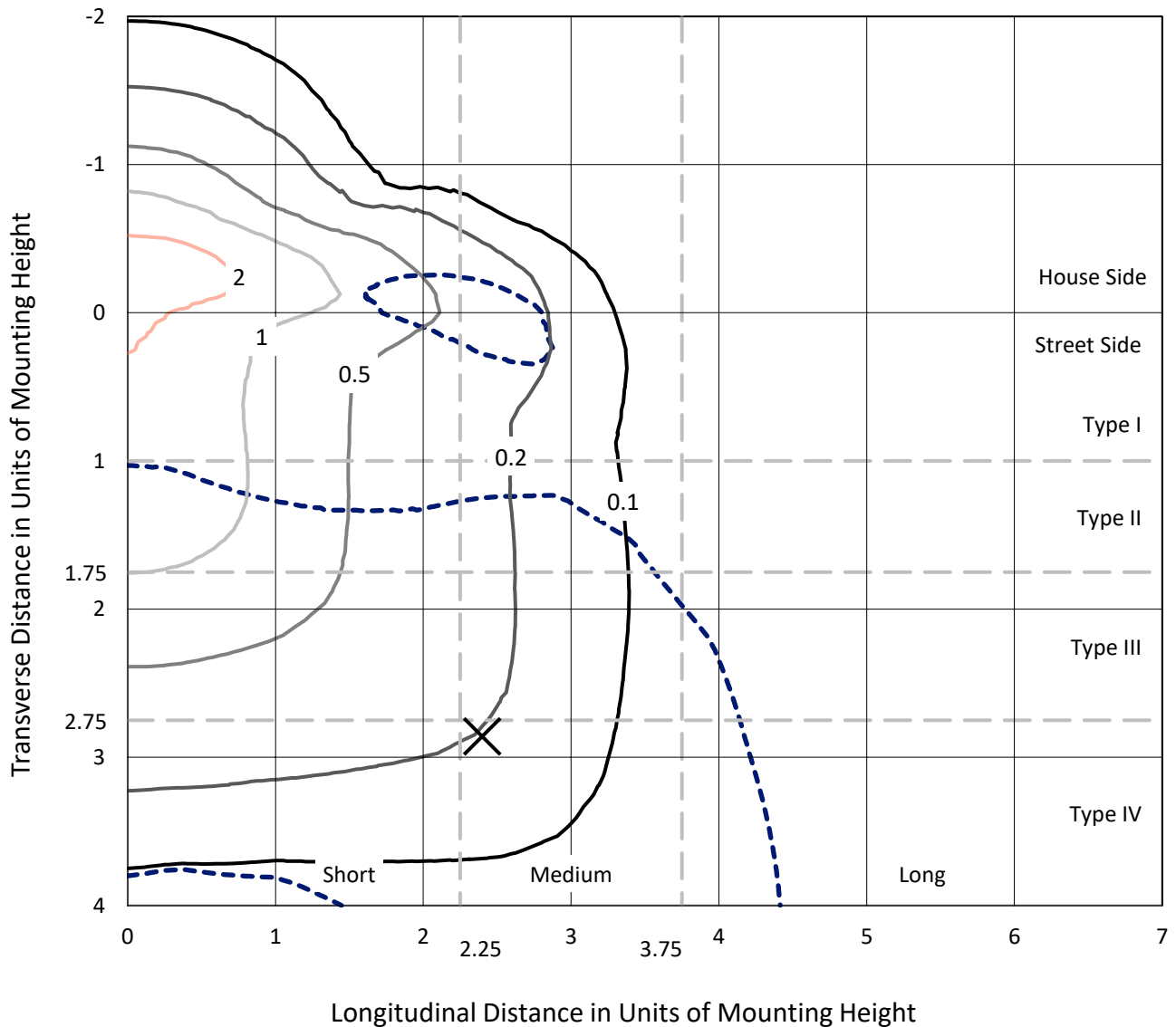
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

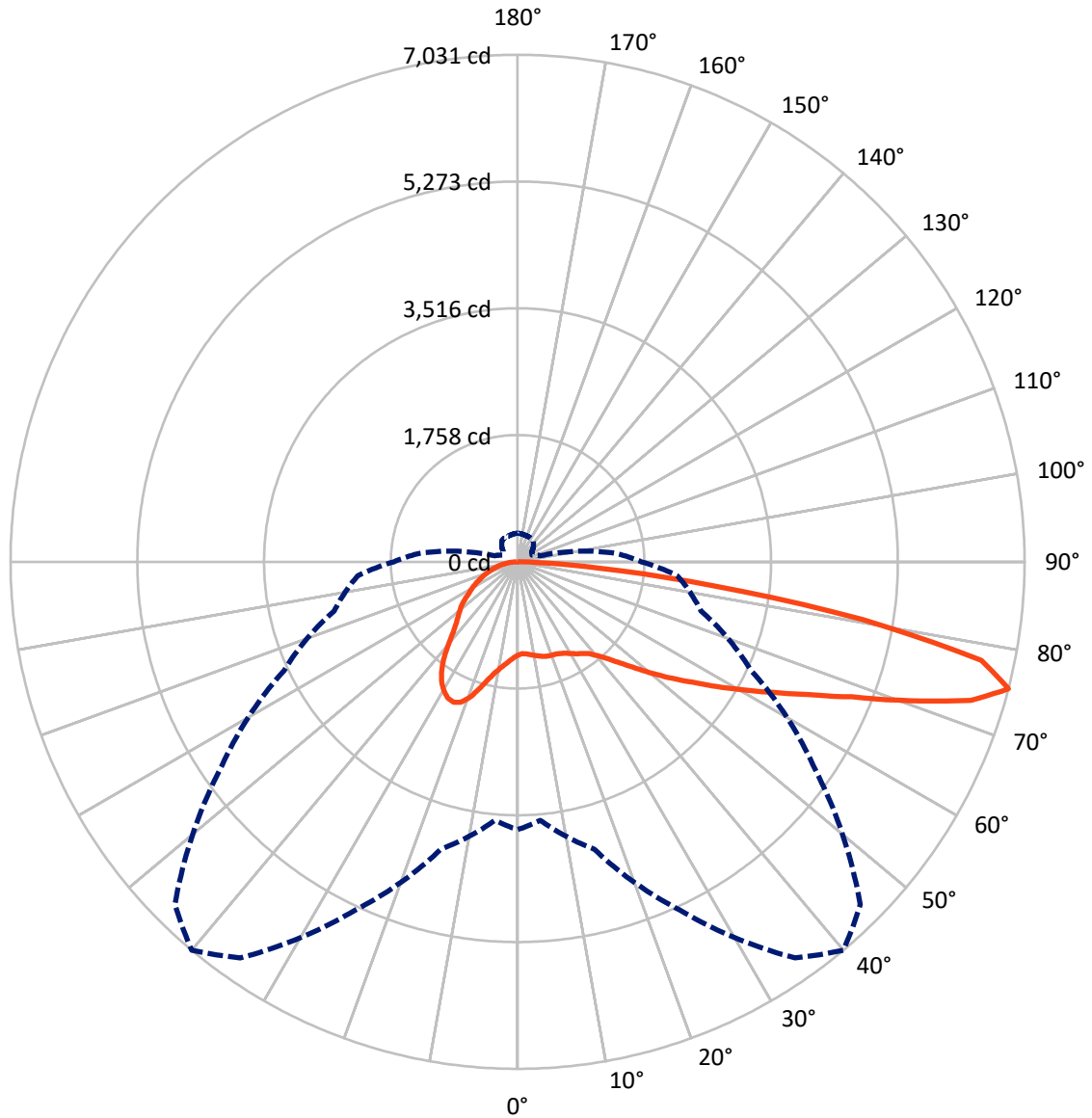
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3500.0	0.0	3500.0
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	7796.5	0.0	7796.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	11296.5	0.0	11296.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	128.9	1.1
10°-20°	432.9	3.8
20°-30°	790.5	7.0
30°-40°	1121.1	9.9
40°-50°	1513.8	13.4
50°-60°	2036.5	18.0
60°-70°	2584.8	22.9
70°-80°	2345.9	20.8
80°-90°	342.0	3.0
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°	11296.5	100.0
0°-180°	11296.5	100.0

Coefficient of Utilization

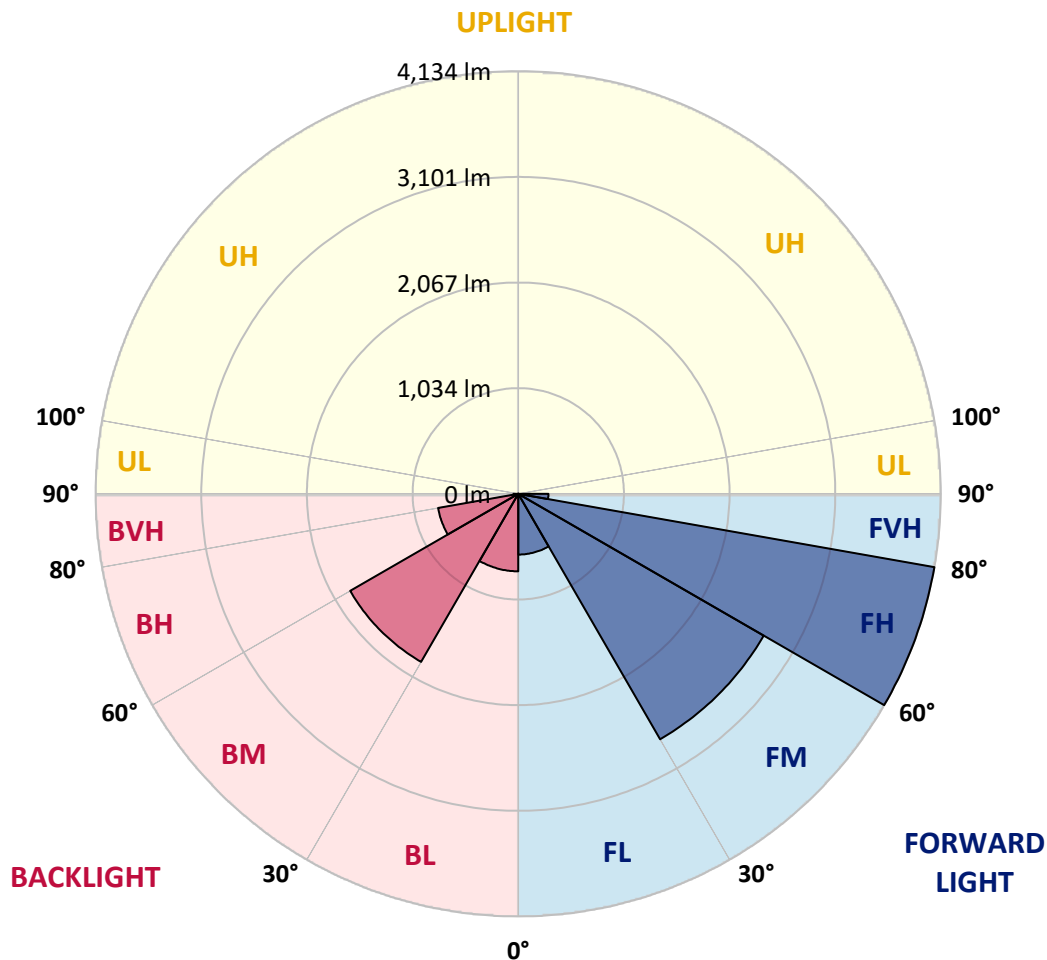


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	594.2	5.3			
FM (30°-60°)	2773.0	24.5			
FH (60°-80°)	4134.4	36.6			G2/5000
FVH (80°-90°)	294.9	2.6			G3/500
BL (0°-30°)	758.1	6.7	B2/1000		
BM (30°-60°)	1898.5	16.8	B2/2500		
BH (60°-80°)	796.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	47.1	0.4			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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8
2.5°	1272.0	1279.2	1277.4	1275.0	1275.0	1275.6	1275.0	1279.2	1283.4	1287.6	1294.2
5°	1285.1	1292.4	1288.7	1285.8	1283.4	1282.8	1280.9	1280.4	1282.8	1288.2	1297.1
7.5°	1311.0	1318.1	1312.7	1307.4	1302.6	1300.1	1297.8	1294.2	1292.4	1295.4	1307.9
10°	1339.7	1346.8	1340.3	1330.8	1323.0	1319.9	1317.5	1313.9	1311.6	1313.3	1327.2
12.5°	1368.5	1375.7	1366.6	1353.5	1343.3	1341.5	1338.5	1337.3	1336.7	1336.1	1349.9
15°	1395.4	1401.4	1390.0	1374.4	1363.7	1360.7	1357.7	1359.5	1362.4	1366.0	1381.6
17.5°	1416.4	1422.4	1405.6	1385.3	1375.0	1373.8	1372.1	1378.0	1386.4	1395.4	1414.6
20°	1435.6	1441.6	1420.0	1392.5	1380.5	1380.5	1381.1	1393.6	1405.6	1418.8	1445.1
22.5°	1462.6	1467.3	1440.9	1403.2	1385.8	1387.0	1391.8	1404.5	1419.4	1437.4	1473.9
25°	1502.6	1506.2	1473.9	1423.6	1403.8	1407.4	1411.6	1417.6	1431.9	1452.9	1502.0
27.5°	1567.4	1570.4	1527.9	1459.5	1429.6	1435.6	1441.6	1437.4	1443.9	1462.0	1524.9
30°	1658.4	1660.3	1606.3	1515.9	1473.3	1476.3	1477.5	1460.1	1447.5	1462.0	1541.0
32.5°	1766.3	1765.7	1701.6	1584.1	1523.0	1520.1	1509.8	1475.7	1446.4	1459.0	1555.4
35°	1933.5	1926.9	1844.2	1680.0	1579.3	1560.8	1536.8	1493.1	1452.3	1455.9	1567.9
37.5°	2210.3	2189.9	2075.4	1837.0	1663.3	1615.9	1580.6	1521.2	1465.5	1454.8	1583.0
40°	2522.4	2496.7	2370.8	2052.0	1789.0	1713.0	1656.1	1561.4	1487.1	1460.1	1605.1
42.5°	2892.8	2856.2	2720.8	2305.5	1948.4	1838.2	1752.5	1612.3	1518.8	1477.5	1635.1
45°	3347.4	3299.0	3107.2	2591.3	2149.1	2002.3	1887.9	1689.6	1567.4	1511.1	1680.0
47.5°	3807.1	3819.0	3546.4	2918.5	2390.0	2204.9	2057.5	1805.8	1638.1	1565.0	1752.5
50°	4295.4	4303.7	3983.2	3280.9	2663.3	2433.8	2248.0	1935.8	1736.4	1641.6	1861.0
52.5°	4676.4	4677.6	4379.8	3660.2	2947.8	2685.4	2453.5	2084.4	1850.2	1743.5	2005.4
55°	4914.9	4911.9	4657.8	4019.1	3275.0	2949.6	2681.2	2253.5	1989.2	1863.3	2186.9
57.5°	5088.0	5079.0	4849.6	4327.7	3623.7	3261.8	2938.9	2445.1	2153.3	2005.9	2426.0
60°	5153.9	5148.5	4979.6	4594.3	3990.3	3606.9	3236.0	2659.7	2339.7	2174.3	2733.4
62.5°	5179.1	5189.3	5107.2	4852.6	4382.8	3989.2	3562.6	2916.1	2549.4	2364.9	3057.5
65°	5267.8	5286.3	5269.5	5190.5	4826.2	4436.7	3995.8	3221.1	2778.3	2569.2	3396.0
67.5°	5443.3	5461.9	5469.1	5594.9	5367.8	4994.5	4536.1	3600.9	3046.1	2781.2	3650.6
70°	5439.1	5433.7	5560.7	5916.6	6046.1	5766.9	5264.7	4068.2	3365.5	2957.4	3683.0
72.5°	4950.8	4907.7	5207.8	5913.0	6610.4	6573.3	6154.5	4671.0	3641.0	2979.0	3195.8
75°	3714.2	3599.1	4129.3	5328.9	6704.5	7031.1	6720.1	5044.8	3575.7	2632.1	2224.0
77.5°	1588.3	1472.7	2097.7	3944.8	6000.6	6572.7	6201.2	4401.3	2854.3	1740.6	1092.2
80°	415.8	415.2	633.9	1788.4	4080.8	4853.8	4258.2	2842.4	1630.9	622.0	301.3
82.5°	172.0	167.8	233.1	695.6	1993.9	2723.7	2222.8	1267.8	589.0	168.4	100.0
85°	64.1	63.6	113.3	240.3	703.4	1123.4	813.0	324.1	146.8	82.1	44.9
87.5°	17.9	17.4	24.6	83.3	171.4	260.0	139.0	53.3	41.3	32.4	13.2
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°	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8	1291.8
2.5°	1296.0	1299.0	1304.3	1308.5	1313.9	1319.9	1328.3	1333.7	1339.1	1342.7	1340.3
5°	1301.3	1307.9	1321.7	1335.5	1351.7	1366.6	1384.1	1396.7	1406.8	1409.8	1411.0
7.5°	1313.3	1324.1	1347.5	1370.8	1396.7	1421.2	1446.4	1467.9	1485.3	1491.9	1492.5
10°	1334.3	1348.7	1381.6	1414.6	1448.7	1486.5	1518.8	1550.0	1574.6	1584.8	1585.4
12.5°	1360.7	1378.6	1421.8	1467.3	1514.6	1566.8	1608.7	1647.1	1677.6	1691.5	1691.5
15°	1394.8	1418.2	1473.3	1534.4	1603.9	1676.4	1729.8	1772.3	1806.5	1823.3	1822.0
17.5°	1431.9	1463.1	1532.7	1624.9	1724.4	1819.6	1881.9	1913.1	1948.4	1964.6	1964.0
20°	1467.9	1506.2	1605.8	1739.9	1872.4	1973.6	2024.0	2032.4	2034.7	2036.5	2041.3
22.5°	1505.1	1556.6	1697.4	1885.0	2026.9	2097.0	2104.2	2068.2	2017.9	1994.5	2001.2
25°	1545.8	1614.1	1817.2	2044.9	2160.0	2168.3	2113.2	2025.7	1930.5	1886.7	1893.3
27.5°	1585.4	1680.6	1961.0	2197.7	2255.8	2182.1	2063.5	1939.5	1824.4	1778.3	1783.7
30°	1624.9	1756.7	2119.8	2331.3	2299.6	2148.0	1985.0	1846.5	1730.9	1682.4	1687.8
32.5°	1665.0	1845.4	2302.6	2427.8	2291.8	2075.4	1887.3	1742.3	1640.5	1589.6	1596.1
35°	1710.6	1954.5	2475.7	2480.5	2239.6	1968.8	1758.5	1617.8	1529.0	1488.3	1497.3
37.5°	1769.9	2092.8	2628.5	2493.7	2148.6	1812.4	1598.5	1470.4	1397.2	1378.6	1391.8
40°	1843.6	2259.4	2745.4	2472.7	2013.7	1622.5	1423.6	1321.1	1279.8	1284.0	1298.4
42.5°	1939.5	2445.8	2827.4	2418.8	1826.2	1426.6	1270.2	1224.7	1244.5	1261.3	1276.8
45°	2064.0	2639.3	2878.3	2327.1	1614.1	1260.6	1179.8	1190.5	1205.5	1207.2	1219.2
47.5°	2223.4	2835.1	2911.9	2188.7	1397.8	1143.8	1122.2	1124.6	1121.7	1109.0	1118.6
50°	2422.4	3025.7	2941.9	2005.4	1213.9	1070.7	1041.9	1033.5	992.2	951.4	956.8
52.5°	2648.8	3200.7	2954.5	1777.7	1070.7	1009.5	962.9	910.1	832.8	820.2	824.4
55°	2900.5	3362.4	2922.1	1497.8	950.3	931.1	860.4	796.8	788.5	777.7	779.5
57.5°	3201.3	3536.8	2856.2	1185.7	826.9	839.4	770.5	777.7	762.7	746.0	742.9
60°	3530.2	3717.2	2740.5	901.1	699.3	725.0	747.1	746.5	742.3	728.6	723.8
62.5°	3826.2	3835.8	2512.9	690.2	587.1	636.3	696.8	696.2	692.6	684.8	681.8
65°	4002.3	3817.8	2133.0	543.5	494.9	563.2	628.5	633.3	633.9	633.3	633.3
67.5°	3971.2	3607.5	1611.7	432.6	418.8	488.9	560.8	567.4	572.2	573.4	574.6
70°	3618.9	3145.5	1050.9	345.1	351.1	423.6	496.7	503.3	507.5	512.3	514.7
72.5°	2820.8	2312.7	601.6	279.2	291.8	367.3	433.2	441.0	443.4	452.3	455.9
75°	1718.9	1360.1	324.7	219.9	239.6	314.0	370.2	379.2	383.5	394.2	395.4
77.5°	817.2	589.0	185.1	171.4	192.9	256.5	312.7	323.0	311.6	317.5	312.7
80°	276.2	218.7	116.8	130.6	147.4	200.1	250.4	260.7	236.7	235.4	233.1
82.5°	96.5	88.7	74.3	86.9	95.2	143.2	189.3	202.5	176.2	175.6	167.2
85°	37.7	36.0	41.3	47.4	56.9	88.0	124.6	131.2	108.4	87.4	86.3
87.5°	7.8	8.4	10.1	10.8	17.4	30.5	44.9	55.1	43.8	37.1	34.1
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)