

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: P960872

Luminaire Tested: **NAV-SB1D-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960872
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-SB1D-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

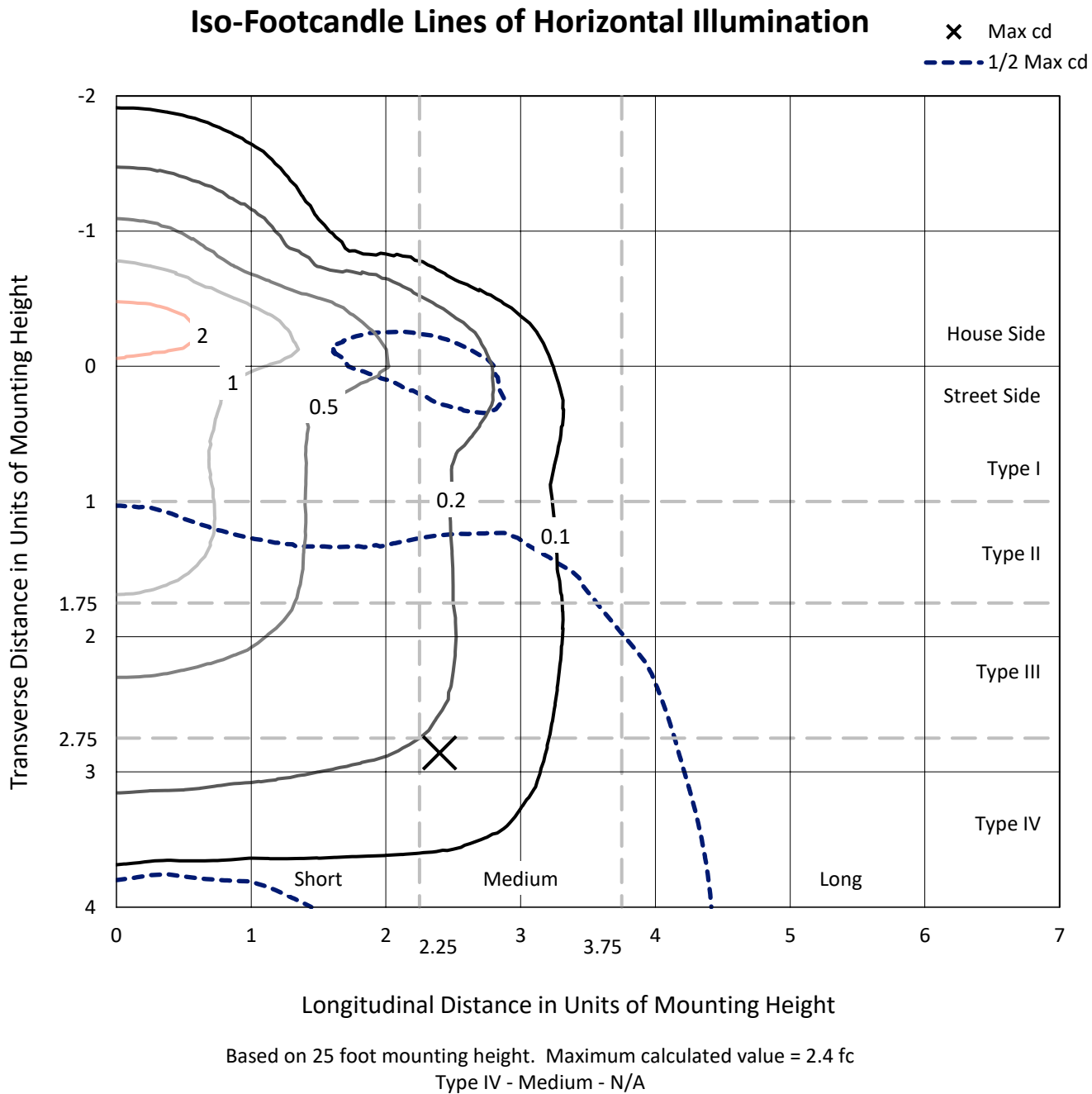
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10342.2 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 79.6
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

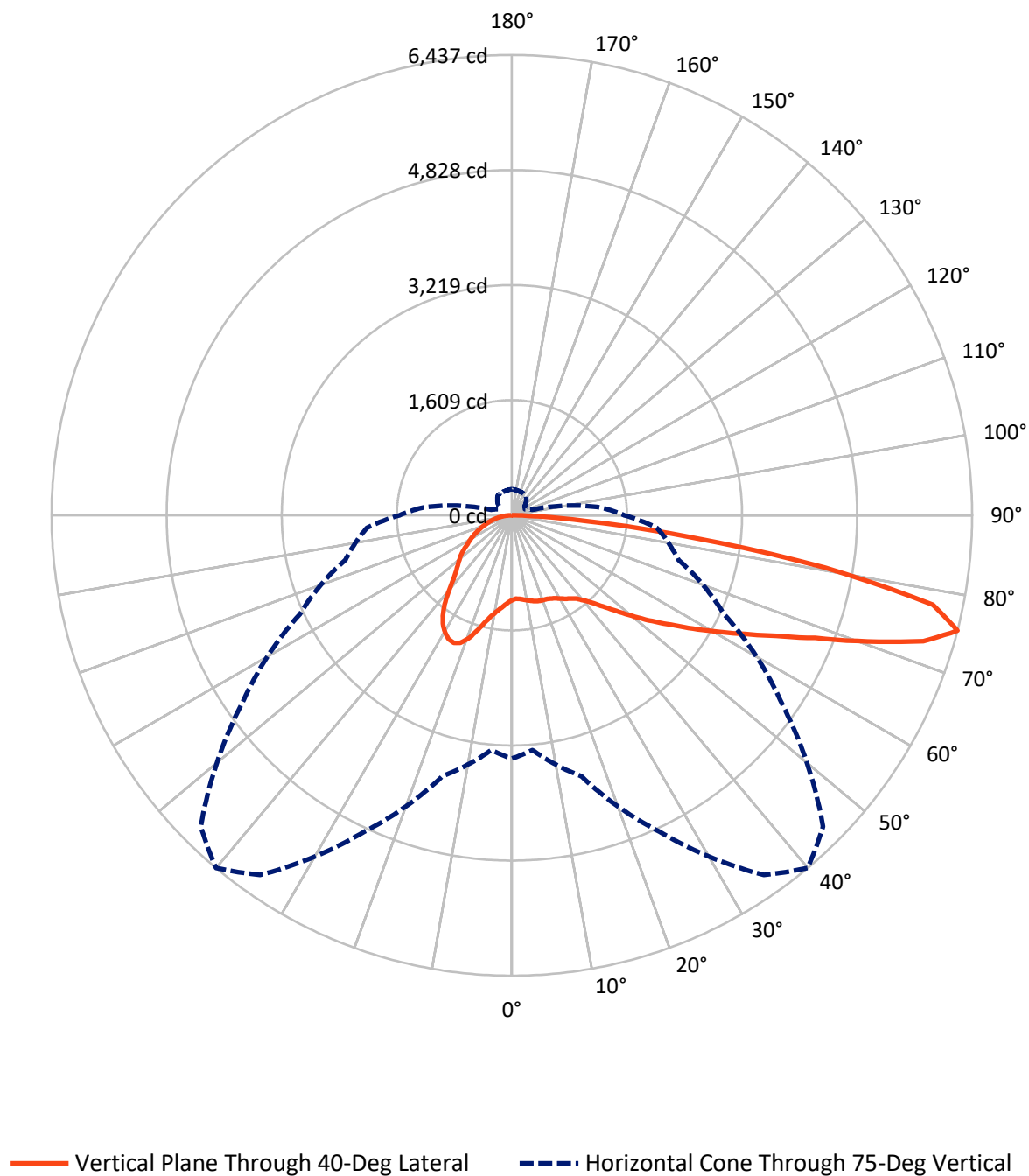


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3204.4	0.0	3204.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	7137.9	0.0	7137.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	10342.2	0.0	10342.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.1	1.1
10°-20°	396.4	3.8
20°-30°	723.7	7.0
30°-40°	1026.4	9.9
40°-50°	1386.0	13.4
50°-60°	1864.5	18.0
60°-70°	2366.5	22.9
70°-80°	2147.7	20.8
80°-90°	313.1	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°	10342.2	100.0
0°-180°	10342.2	100.0

Coefficient of Utilization



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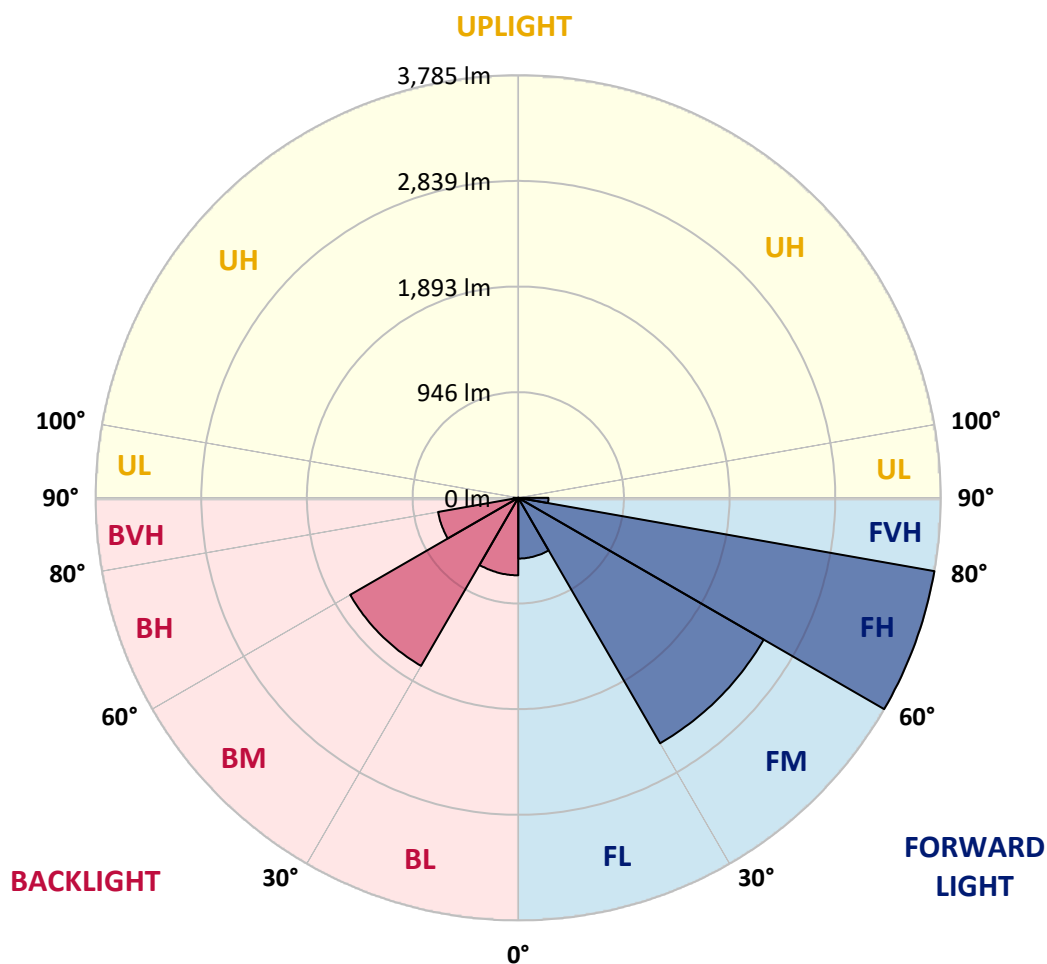
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	544.0	5.3			
FM	(30°-60°)	2538.8	24.5			
FH	(60°-80°)	3785.1	36.6			G2/5000
FVH	(80°-90°)	270.0	2.6			G3/500
BL	(0°-30°)	694.1	6.7	B2/1000		
BM	(30°-60°)	1738.1	16.8	B2/2500		
BH	(60°-80°)	729.1	7.0	B2/1000		G2/1000
BVH	(80°-90°)	43.1	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°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6
2.5°	1164.5	1171.2	1169.5	1167.3	1167.3	1167.3	1167.3	1171.2	1175.0	1178.9	1184.8
5°	1176.6	1183.2	1179.9	1177.2	1175.0	1174.4	1172.8	1172.2	1174.4	1179.4	1187.6
7.5°	1200.2	1206.8	1201.8	1196.9	1192.5	1190.3	1188.2	1184.8	1183.2	1185.9	1197.5
10°	1226.5	1233.1	1227.1	1218.3	1211.1	1208.5	1206.2	1202.9	1200.8	1202.4	1215.0
12.5°	1252.9	1259.4	1251.2	1239.1	1229.8	1228.2	1225.4	1224.4	1223.7	1223.2	1235.8
15°	1277.6	1283.0	1272.6	1258.4	1248.4	1245.7	1243.0	1244.7	1247.4	1250.7	1265.0
17.5°	1296.7	1302.3	1286.9	1268.2	1258.9	1257.8	1256.1	1261.7	1269.4	1277.6	1295.1
20°	1314.3	1319.8	1300.0	1274.8	1263.8	1263.8	1264.3	1275.9	1286.9	1299.0	1323.1
22.5°	1339.0	1343.4	1319.3	1284.6	1268.7	1269.9	1274.3	1285.8	1299.5	1315.9	1349.4
25°	1375.8	1379.0	1349.4	1303.3	1285.2	1288.5	1292.3	1297.9	1311.0	1330.2	1375.1
27.5°	1435.0	1437.8	1398.8	1336.2	1308.8	1314.3	1319.8	1315.9	1321.9	1338.4	1396.0
30°	1518.3	1520.0	1470.7	1387.8	1348.9	1351.6	1352.7	1336.8	1325.2	1338.4	1410.8
32.5°	1617.1	1616.5	1557.9	1450.4	1394.4	1391.6	1382.3	1351.1	1324.2	1335.7	1424.0
35°	1770.2	1764.1	1688.4	1538.1	1446.0	1429.0	1407.0	1366.9	1329.6	1332.9	1435.5
37.5°	2023.6	2004.9	1900.1	1681.8	1522.7	1479.4	1447.1	1392.8	1341.7	1331.9	1449.2
40°	2309.3	2285.8	2170.5	1878.7	1637.9	1568.2	1516.2	1429.5	1361.5	1336.8	1469.5
42.5°	2648.4	2614.9	2491.0	2110.8	1783.8	1682.9	1604.4	1476.1	1390.5	1352.7	1497.0
45°	3064.6	3020.3	2844.7	2372.5	1967.6	1833.2	1728.5	1546.9	1435.0	1383.4	1538.1
47.5°	3485.4	3496.4	3246.8	2672.0	2188.2	2018.6	1883.6	1653.3	1499.7	1432.7	1604.4
50°	3932.5	3940.2	3646.6	3003.8	2438.3	2228.1	2058.1	1772.3	1589.7	1503.0	1703.8
52.5°	4281.3	4282.4	4009.8	3351.0	2698.8	2458.6	2246.3	1908.3	1693.9	1596.2	1836.0
55°	4499.6	4496.9	4264.3	3679.6	2998.3	2700.5	2454.7	2063.0	1821.1	1705.9	2002.1
57.5°	4658.2	4650.0	4439.9	3962.1	3317.5	2986.2	2690.6	2238.6	1971.5	1836.5	2221.1
60°	4718.5	4713.6	4558.9	4206.2	3653.3	3302.2	2962.7	2435.0	2142.0	1990.7	2502.4
62.5°	4741.5	4750.9	4675.7	4442.7	4012.6	3652.2	3261.7	2669.7	2334.0	2165.1	2799.2
65°	4822.7	4839.7	4824.4	4752.0	4418.5	4062.0	3658.2	2948.9	2543.5	2352.2	3109.1
67.5°	4983.4	5000.5	5007.0	5122.2	4914.4	4572.6	4153.0	3296.7	2788.8	2546.3	3342.2
70°	4979.7	4974.7	5091.0	5416.8	5535.3	5279.7	4820.1	3724.5	3081.1	2707.5	3371.8
72.5°	4532.5	4493.1	4767.9	5413.5	6052.0	6018.0	5634.6	4276.4	3333.5	2727.3	2925.9
75°	3400.4	3295.1	3780.5	4878.7	6138.1	6437.1	6152.5	4618.6	3273.6	2409.8	2036.2
77.5°	1454.2	1348.3	1920.4	3611.6	5493.6	6017.5	5677.4	4029.6	2613.2	1593.5	1000.0
80°	380.7	380.2	580.4	1637.4	3736.1	4443.7	3898.5	2602.3	1493.1	569.4	275.9
82.5°	157.4	153.5	213.4	636.8	1825.5	2493.6	2035.0	1160.7	539.3	154.2	91.6
85°	58.7	58.1	103.6	220.0	644.0	1028.5	744.4	296.7	134.4	75.1	41.1
87.5°	16.5	15.9	22.4	76.3	156.9	238.1	127.3	48.8	37.8	29.6	12.1
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°	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6	1182.6
2.5°	1186.5	1189.2	1194.1	1198.0	1202.9	1208.5	1216.1	1221.1	1226.0	1229.3	1227.1
5°	1191.5	1197.5	1210.1	1222.7	1237.5	1251.2	1267.1	1278.7	1288.0	1290.7	1291.8
7.5°	1202.4	1212.3	1233.7	1255.0	1278.7	1301.1	1324.2	1343.9	1359.9	1365.8	1366.4
10°	1221.6	1234.7	1265.0	1295.1	1326.4	1360.9	1390.5	1419.1	1441.6	1450.9	1451.4
12.5°	1245.7	1262.2	1301.6	1343.4	1386.7	1434.4	1472.8	1508.0	1535.9	1548.6	1548.6
15°	1277.0	1298.4	1348.9	1404.8	1468.4	1534.8	1583.6	1622.6	1653.8	1669.2	1668.1
17.5°	1311.0	1339.6	1403.1	1487.7	1578.7	1665.9	1722.9	1751.5	1783.8	1798.7	1798.2
20°	1343.9	1379.0	1470.1	1593.0	1714.2	1806.9	1853.0	1860.7	1862.8	1864.5	1868.9
22.5°	1377.9	1425.1	1554.0	1725.7	1855.7	1919.9	1926.5	1893.6	1847.5	1826.0	1832.1
25°	1415.2	1477.7	1663.7	1872.2	1977.5	1985.1	1934.7	1854.6	1767.4	1727.3	1733.4
27.5°	1451.4	1538.6	1795.4	2012.1	2065.3	1997.8	1889.2	1775.6	1670.3	1628.1	1633.0
30°	1487.7	1608.3	1940.7	2134.4	2105.2	1966.5	1817.3	1690.6	1584.8	1540.3	1545.2
32.5°	1524.4	1689.5	2108.0	2222.7	2098.2	1900.1	1727.9	1595.1	1501.9	1455.3	1461.3
35°	1566.1	1789.3	2266.6	2271.0	2050.4	1802.5	1610.0	1481.0	1399.8	1362.5	1370.8
37.5°	1620.4	1916.0	2406.4	2283.0	1967.1	1659.4	1463.5	1346.1	1279.2	1262.2	1274.3
40°	1687.9	2068.6	2513.4	2263.8	1843.7	1485.4	1303.3	1209.5	1171.7	1175.5	1188.7
42.5°	1775.6	2239.1	2588.5	2214.4	1672.0	1306.1	1162.9	1121.2	1139.3	1154.7	1168.9
45°	1889.7	2416.3	2635.2	2130.6	1477.7	1154.1	1080.0	1090.0	1103.6	1105.3	1116.3
47.5°	2035.6	2595.7	2665.9	2003.8	1279.7	1047.1	1027.5	1029.6	1026.8	1015.4	1024.1
50°	2217.8	2770.2	2693.3	1836.0	1111.3	980.2	953.9	946.3	908.4	871.0	876.1
52.5°	2425.0	2930.3	2704.9	1627.5	980.2	924.2	881.5	833.2	762.5	750.9	754.8
55°	2655.5	3078.4	2675.2	1371.3	870.0	852.4	787.7	729.6	721.9	712.0	713.6
57.5°	2930.9	3238.0	2614.9	1085.6	757.0	768.5	705.4	712.0	698.3	683.0	680.2
60°	3232.0	3403.1	2509.0	825.0	640.1	663.7	684.0	683.5	679.7	667.1	662.7
62.5°	3502.9	3511.8	2300.6	631.9	537.6	582.5	638.0	637.4	634.1	627.0	624.2
65°	3664.3	3495.2	1952.8	497.5	453.0	515.7	575.4	579.8	580.4	579.8	579.8
67.5°	3635.7	3302.8	1475.6	396.1	383.5	447.6	513.4	519.5	523.9	524.9	526.0
70°	3313.2	2879.8	962.2	316.0	321.4	387.9	454.7	460.7	464.6	469.0	471.2
72.5°	2582.5	2117.3	550.7	255.6	267.1	336.3	396.6	403.7	405.9	414.1	417.5
75°	1573.8	1245.2	297.4	201.3	219.5	287.4	339.0	347.3	351.1	360.9	362.0
77.5°	748.2	539.3	169.5	156.9	176.6	234.7	286.4	295.7	285.3	290.7	286.4
80°	252.9	200.2	107.0	119.6	134.9	183.2	229.3	238.6	216.7	215.6	213.4
82.5°	88.4	81.2	68.1	79.5	87.2	131.1	173.3	185.4	161.2	160.7	153.0
85°	34.5	32.9	37.8	43.4	52.1	80.7	114.1	120.1	99.3	80.1	79.0
87.5°	7.2	7.7	9.3	9.8	15.9	28.0	41.1	50.4	40.1	34.0	31.3
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)