

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: P960248

Luminaire Tested: **NAV-SB1C-722-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6304.8 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

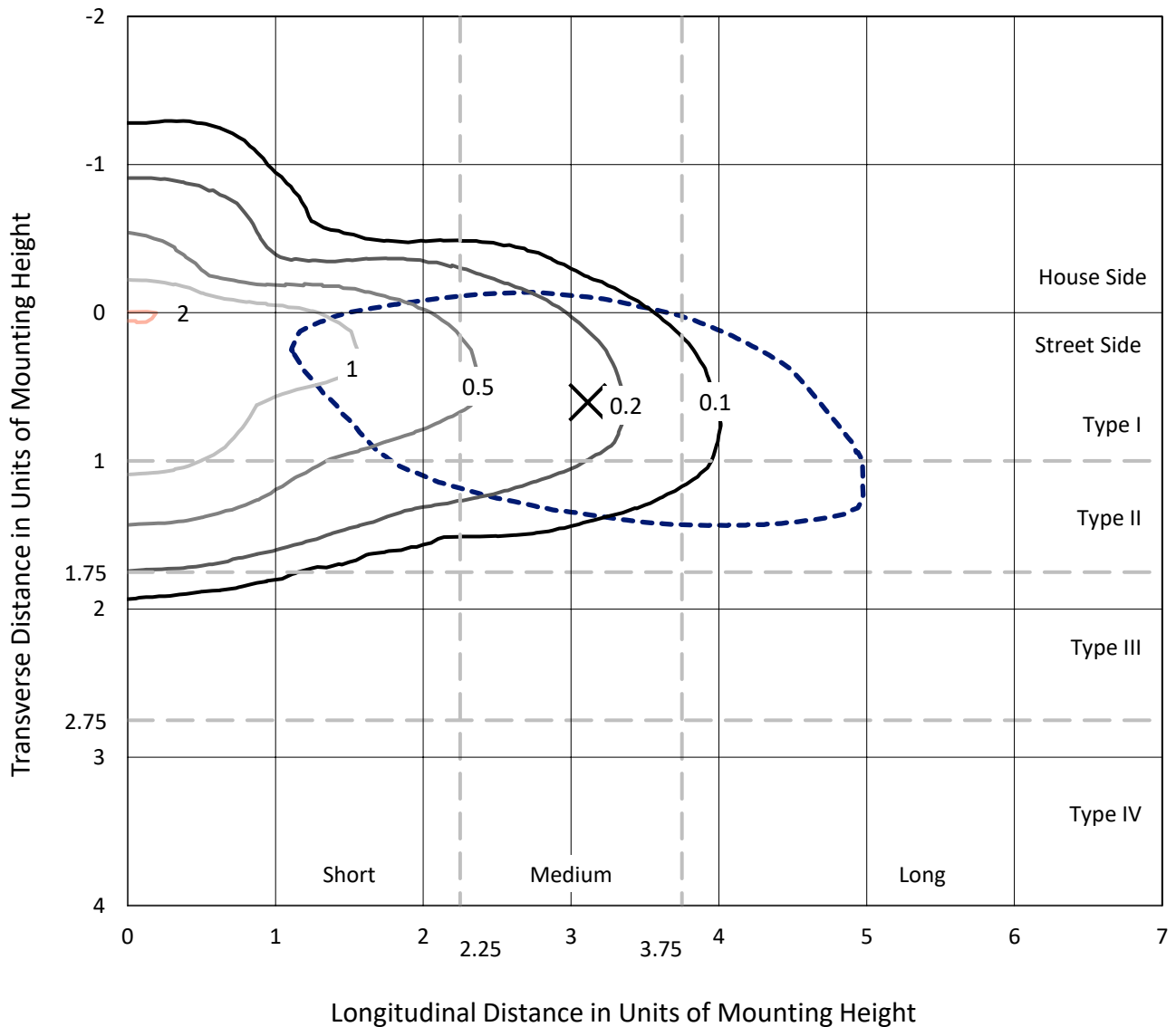
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

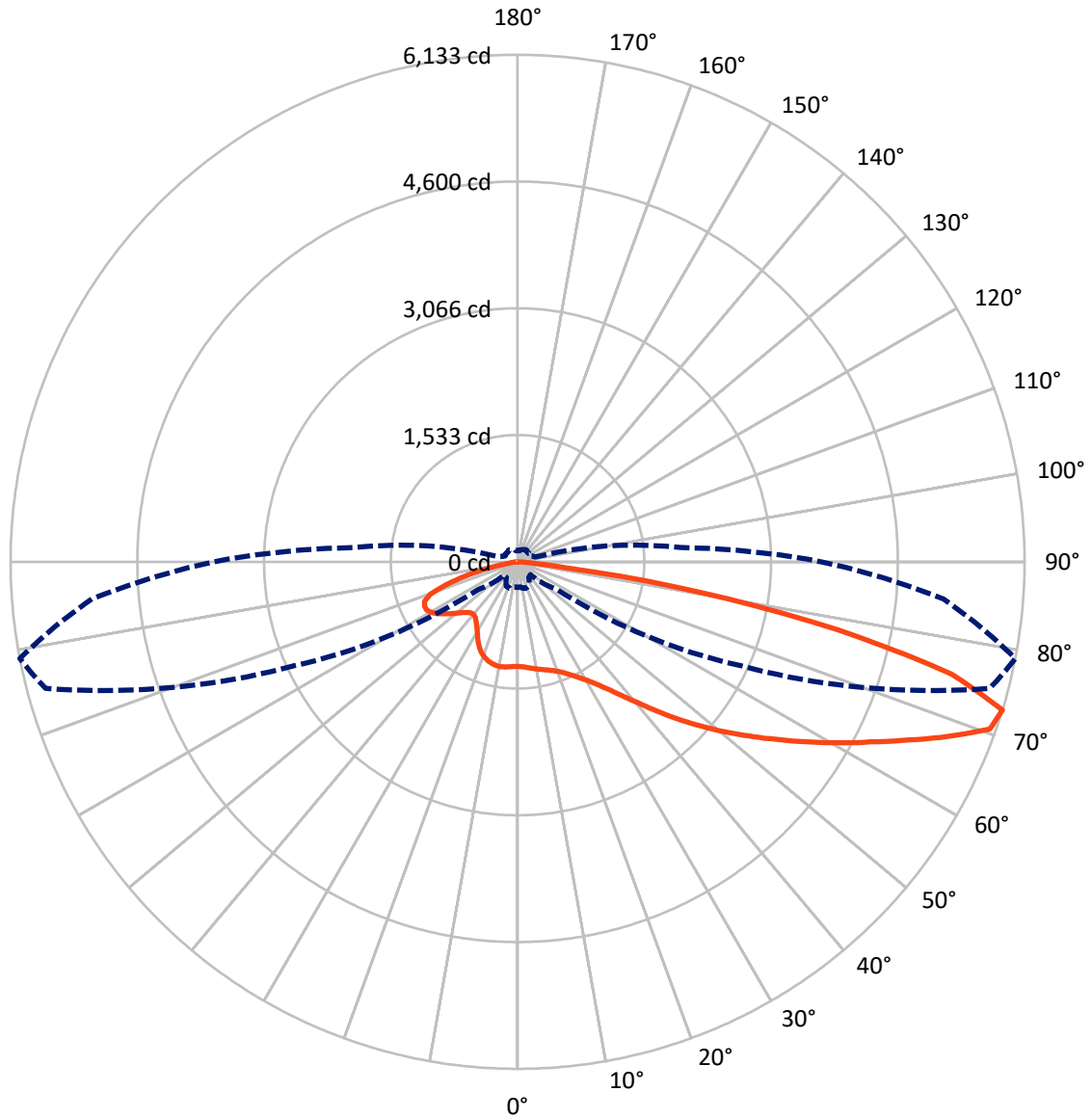
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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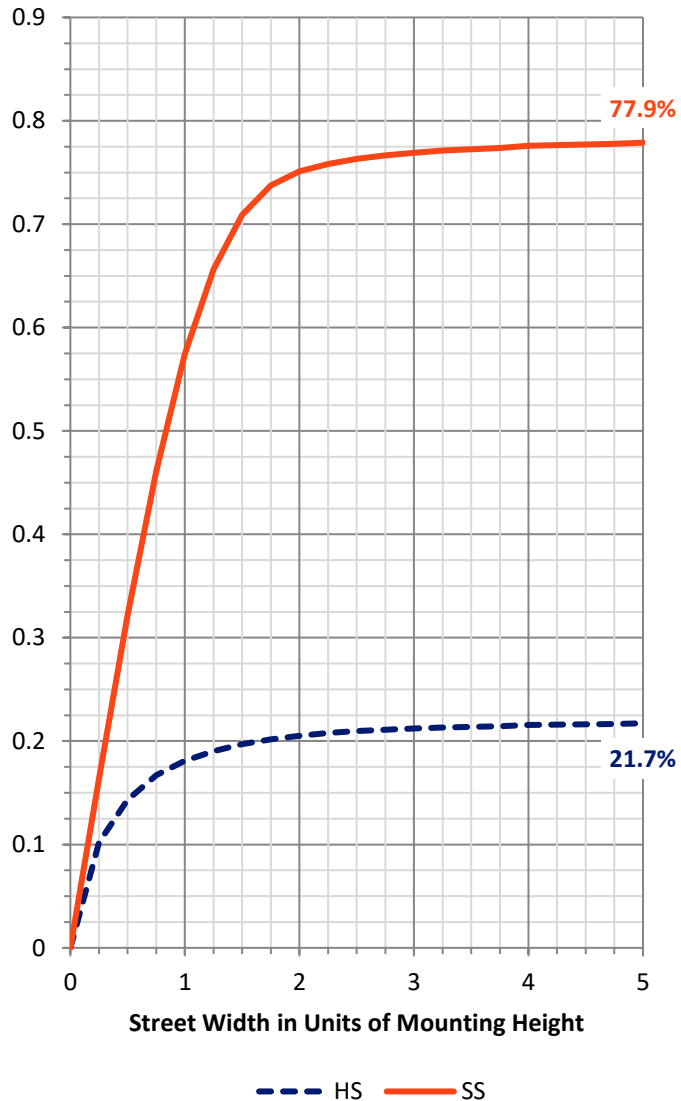
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1387.4	0.0	1387.4
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	4917.4	0.0	4917.4
	% Fixture	78.0	0.0	78.0
Total	Lumens	6304.8	0.0	6304.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.9	1.8
10°-20°	300.4	4.8
20°-30°	484.7	7.7
30°-40°	727.4	11.5
40°-50°	1031.9	16.4
50°-60°	1303.1	20.7
60°-70°	1323.5	21.0
70°-80°	902.0	14.3
80°-90°	117.0	1.9
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°	6304.8	100.0
0°-180°	6304.8	100.0

Coefficient of Utilization

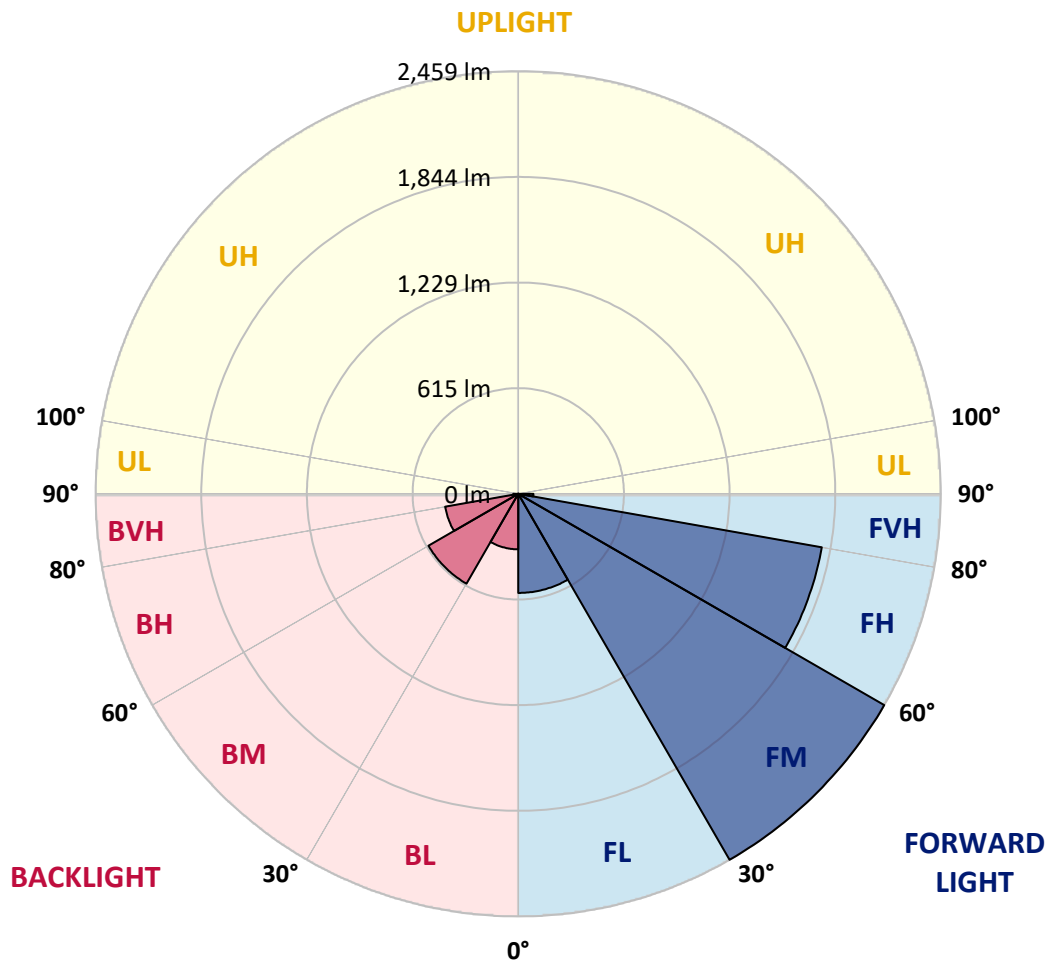


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	576.7	9.1			
FM (30°-60°)	2459.0	39.0			
FH (60°-80°)	1793.5	28.4			G1/1800
FVH (80°-90°)	88.2	1.4			G1/100
BL (0°-30°)	323.2	5.1	B1/500		
BM (30°-60°)	603.4	9.6	B1/1000		
BH (60°-80°)	432.0	6.9	B1/500		G1/500
BVH (80°-90°)	28.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7
2.5°	1266.3	1260.2	1263.9	1262.6	1264.3	1266.3	1267.0	1267.9	1271.3	1271.0	1270.6
5°	1263.6	1257.6	1262.6	1261.0	1265.3	1270.0	1274.0	1277.7	1283.0	1285.4	1282.0
7.5°	1258.0	1254.0	1258.9	1263.9	1271.9	1279.0	1284.6	1292.9	1300.6	1302.0	1304.3
10°	1225.0	1221.9	1233.6	1246.6	1268.6	1287.6	1300.0	1309.6	1317.9	1319.3	1322.7
12.5°	1190.5	1186.9	1200.0	1217.6	1253.3	1287.6	1313.6	1326.4	1333.6	1338.0	1343.0
15°	1184.9	1181.9	1189.2	1204.6	1234.3	1278.6	1323.0	1346.3	1352.7	1357.7	1359.7
17.5°	1212.3	1206.6	1209.6	1214.9	1232.3	1270.3	1330.3	1369.0	1378.7	1384.1	1384.1
20°	1275.6	1267.6	1263.0	1252.2	1249.3	1271.6	1329.6	1396.4	1409.1	1415.7	1417.4
22.5°	1360.0	1354.6	1344.7	1317.6	1288.3	1288.0	1342.3	1431.4	1455.1	1461.3	1457.3
25°	1462.1	1454.1	1441.4	1404.7	1348.3	1320.3	1363.7	1476.1	1515.8	1517.4	1505.7
27.5°	1579.4	1567.4	1550.1	1501.7	1425.7	1371.0	1396.4	1527.5	1585.5	1584.8	1560.8
30°	1703.1	1691.1	1672.8	1614.2	1518.4	1439.4	1441.7	1582.8	1668.2	1664.5	1623.5
32.5°	1793.5	1784.5	1780.8	1735.5	1625.1	1520.1	1493.7	1644.1	1770.2	1766.9	1709.5
35°	1862.9	1851.3	1855.6	1832.6	1741.5	1610.5	1557.4	1717.2	1894.3	1893.9	1822.6
37.5°	1931.6	1921.3	1925.0	1909.6	1849.2	1725.2	1635.2	1806.6	2048.1	2055.3	1959.3
40°	1994.3	1983.3	1998.0	1983.7	1932.9	1847.3	1723.5	1907.6	2226.1	2240.1	2124.7
42.5°	2032.0	2023.4	2047.6	2048.1	2005.6	1950.3	1820.6	2019.0	2432.2	2463.6	2328.2
45°	2045.0	2042.0	2078.7	2086.4	2070.0	2010.0	1907.9	2140.4	2654.3	2710.3	2559.9
47.5°	2031.0	2025.3	2076.0	2104.3	2117.3	2038.0	1980.3	2271.8	2881.1	2963.2	2812.7
50°	1960.3	1949.3	2024.7	2084.3	2130.7	2056.4	2053.4	2423.5	3138.9	3228.5	3066.8
52.5°	1833.2	1824.9	1910.6	2014.3	2101.4	2065.4	2135.4	2589.3	3383.6	3499.8	3327.4
55°	1670.9	1659.8	1754.2	1889.6	2028.4	2062.3	2217.4	2774.7	3672.5	3790.2	3596.4
57.5°	1413.4	1391.3	1510.7	1670.9	1909.3	2058.7	2302.8	2959.2	3965.9	4107.1	3883.6
60°	1037.8	1005.1	1151.6	1341.3	1676.5	2023.0	2408.5	3165.9	4318.1	4445.2	4197.1
62.5°	604.3	585.3	681.0	858.1	1263.6	1812.9	2467.9	3406.4	4664.3	4797.7	4505.2
65°	469.2	463.9	472.2	486.0	703.4	1357.3	2284.8	3640.8	5104.5	5197.9	4826.4
67.5°	429.2	425.2	428.9	403.2	356.8	756.0	1807.6	3700.1	5576.1	5632.8	5107.5
70°	381.5	376.9	388.9	366.8	280.8	343.8	1167.9	3484.7	5951.3	6057.6	5321.3
72.5°	310.8	305.4	333.5	323.5	236.5	220.8	586.6	2972.8	5911.9	6132.7	5168.3
75°	238.8	235.7	269.2	277.5	192.8	173.7	281.5	2209.8	5202.6	5425.0	4454.2
77.5°	185.4	183.1	200.1	230.4	155.4	134.7	173.1	1401.7	3920.6	3959.6	3069.5
80°	139.1	132.4	148.1	178.5	121.1	98.4	117.4	817.4	2478.2	2246.4	1336.0
82.5°	87.0	83.7	96.8	119.1	85.4	67.6	76.4	451.5	993.1	585.0	257.8
85°	49.7	48.4	52.7	68.1	46.3	39.1	43.7	199.5	181.4	124.7	77.7
87.5°	20.0	19.4	24.0	30.3	17.0	14.3	15.4	48.1	40.0	37.0	25.7
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°	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7	1265.7
2.5°	1269.3	1269.3	1264.6	1257.3	1249.0	1243.6	1234.9	1232.6	1223.6	1221.0	1225.3
5°	1284.6	1282.0	1267.6	1246.9	1218.6	1192.6	1163.9	1145.8	1120.5	1111.5	1118.2
7.5°	1304.0	1296.6	1271.9	1226.6	1167.3	1108.8	1048.2	1002.1	958.2	942.5	944.4
10°	1321.6	1311.3	1269.3	1189.9	1087.2	986.2	889.4	821.7	770.4	749.4	754.0
12.5°	1339.4	1320.3	1251.6	1128.9	973.4	836.4	733.4	680.7	649.0	623.6	632.0
15°	1356.0	1329.3	1224.3	1047.1	848.8	709.7	633.7	591.6	566.3	549.6	552.6
17.5°	1375.3	1337.0	1183.3	943.5	730.0	622.0	560.0	534.6	529.6	527.6	528.9
20°	1402.4	1344.0	1129.2	827.4	642.7	552.0	519.9	517.6	517.2	516.3	519.6
22.5°	1431.4	1352.3	1057.9	722.0	568.3	508.3	502.6	497.9	494.9	494.6	498.3
25°	1465.7	1355.0	968.5	635.6	504.9	487.6	480.9	473.9	471.9	471.9	473.9
27.5°	1499.1	1346.0	864.4	560.6	469.2	468.5	459.9	457.6	457.3	458.2	460.9
30°	1532.4	1329.0	761.1	491.3	448.5	448.5	445.6	447.2	448.5	451.9	454.2
32.5°	1577.5	1311.0	674.7	439.9	430.5	427.2	430.2	433.6	434.9	439.2	442.9
35°	1643.5	1298.3	606.0	411.8	411.8	407.5	409.2	408.6	405.5	403.5	408.2
37.5°	1730.8	1297.6	549.3	398.8	396.2	395.5	395.9	391.5	379.9	365.8	366.1
40°	1835.9	1315.7	505.6	389.9	387.9	391.9	389.9	378.2	346.1	321.8	321.1
42.5°	1977.0	1367.0	477.5	378.8	384.9	389.9	381.8	341.5	319.8	303.5	302.8
45°	2143.1	1450.4	463.2	367.2	379.1	385.2	346.6	328.8	311.5	291.8	290.5
47.5°	2331.2	1555.4	459.9	356.2	366.5	370.2	331.5	323.5	303.8	282.5	280.8
50°	2536.0	1679.9	468.9	343.2	348.2	335.5	326.5	319.2	298.8	277.8	275.5
52.5°	2747.7	1816.9	486.9	325.5	329.8	315.8	324.5	318.2	295.8	267.4	265.5
55°	2955.8	1955.0	504.2	304.8	311.2	298.2	318.8	314.2	282.2	250.1	248.5
57.5°	3167.2	2092.3	521.2	286.5	293.2	281.2	309.9	303.5	266.8	234.1	233.5
60°	3387.0	2225.8	529.3	268.8	273.5	265.5	296.1	285.2	249.5	217.8	216.8
62.5°	3592.7	2336.8	516.3	251.1	254.1	250.8	278.2	263.4	232.2	199.5	199.1
65°	3799.2	2402.8	476.2	233.8	234.4	232.8	252.8	240.2	211.8	183.4	181.4
67.5°	3986.3	2439.9	412.6	215.1	213.4	212.8	229.1	214.7	192.1	167.4	165.4
70°	4026.0	2345.8	315.2	193.1	193.1	191.5	203.1	188.4	170.5	150.4	149.8
72.5°	3677.2	1973.3	223.8	168.1	170.8	167.4	177.1	164.7	148.4	135.1	131.1
75°	2965.1	1447.1	162.8	142.4	147.1	141.4	150.4	141.8	127.7	127.4	114.7
77.5°	2037.3	894.8	118.1	117.4	120.7	113.4	123.7	119.1	106.4	100.8	94.4
80°	869.4	356.8	86.0	90.7	90.7	84.0	96.0	97.4	86.4	83.7	83.7
82.5°	173.1	101.4	60.4	62.3	58.7	56.7	68.1	75.3	104.0	115.7	116.0
85°	52.1	37.3	36.4	34.0	30.0	30.3	40.0	75.7	93.4	53.4	46.0
87.5°	14.3	9.3	9.6	7.7	6.4	8.3	13.6	57.4	31.4	13.3	11.4
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)