

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: P961304

Luminaire Tested: **NAV-SB2A-722-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961304
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-722-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7424.1 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

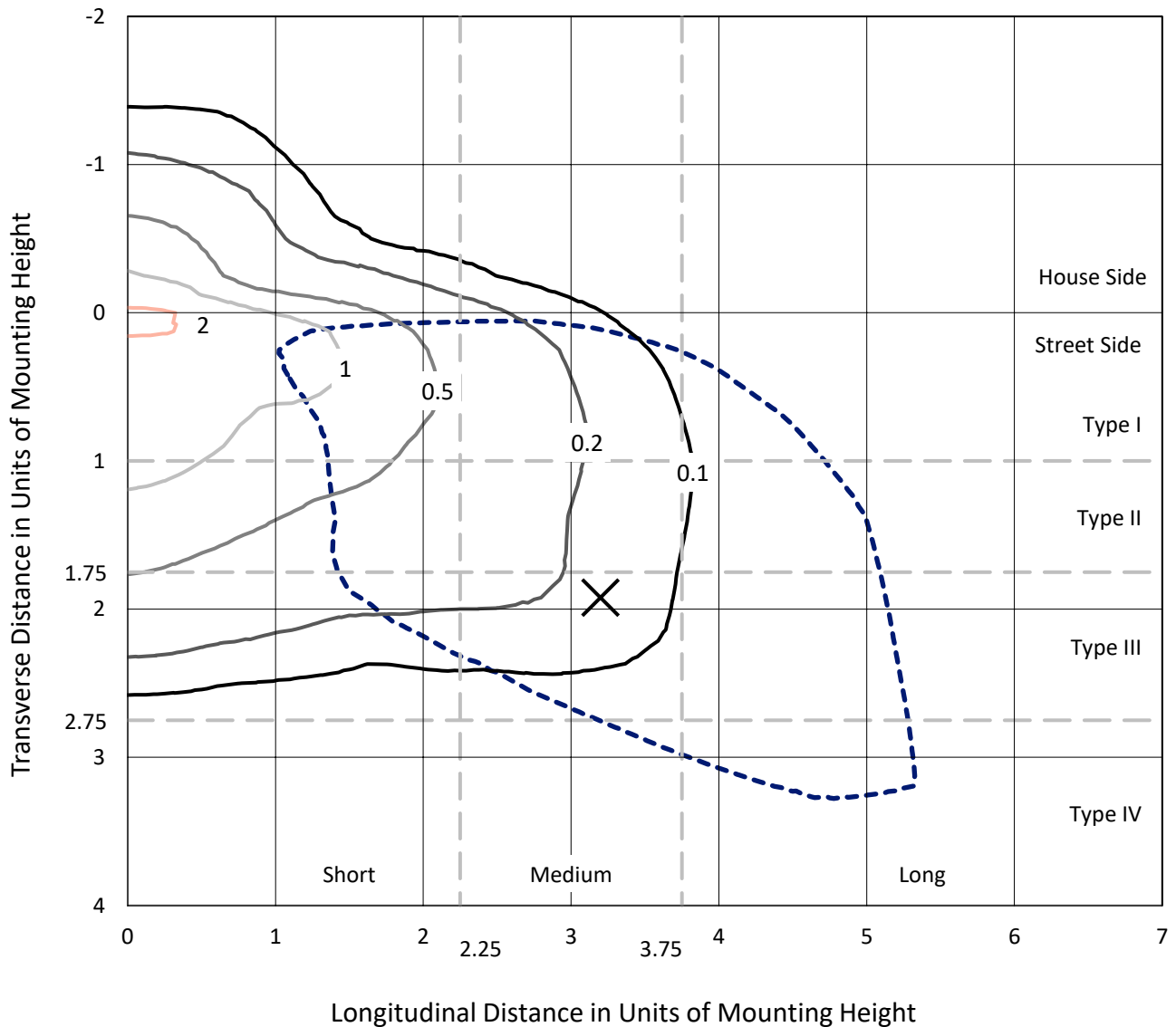
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P961304
 CATALOG NUMBER: NAV-SB2A-722-U-SL3

Iso-Footcandle Lines of Horizontal Illumination

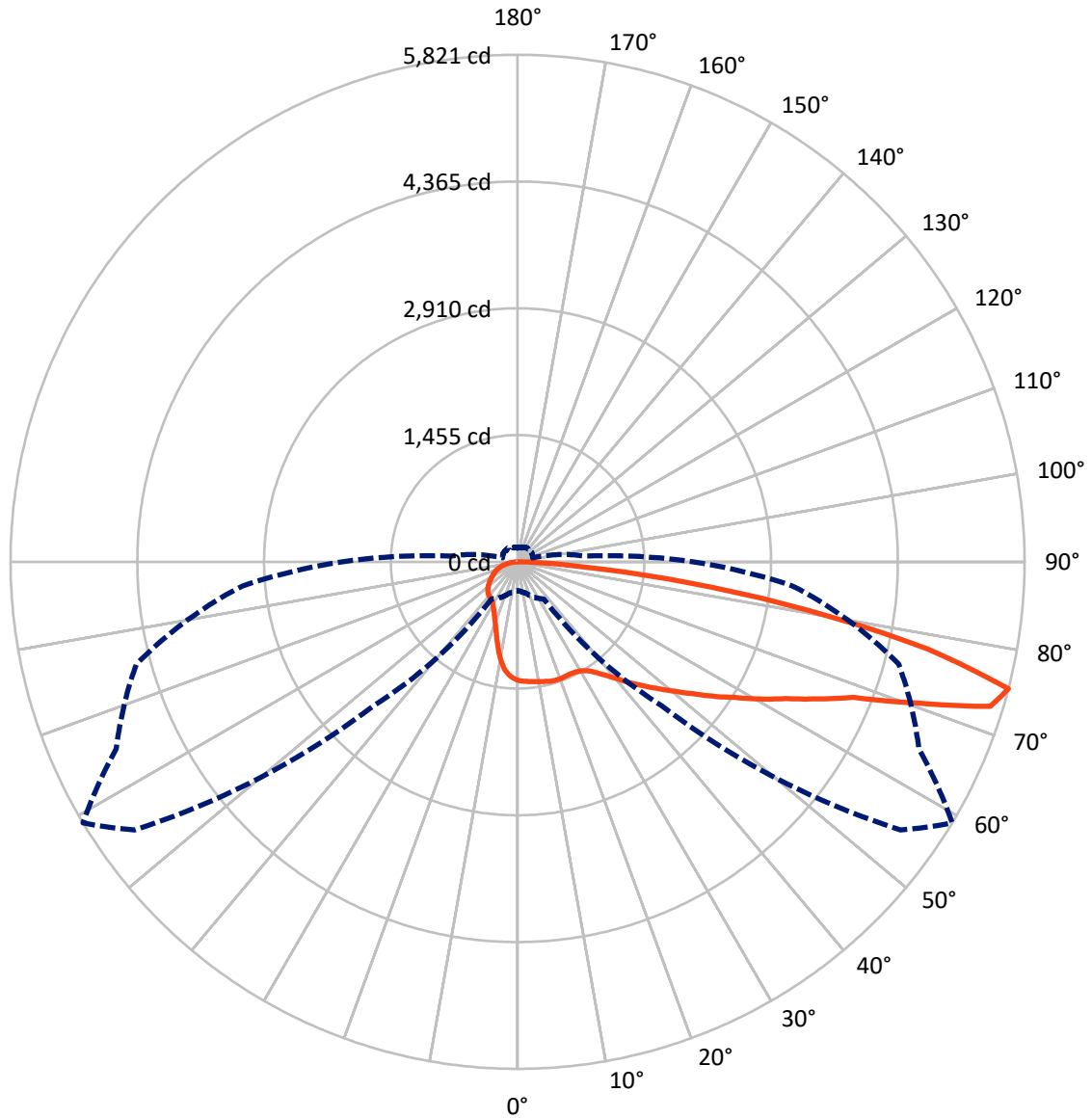
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P961304
CATALOG NUMBER: NAV-SB2A-722-U-SL3

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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 CATALOG NUMBER: NAV-SB2A-722-U-SL3

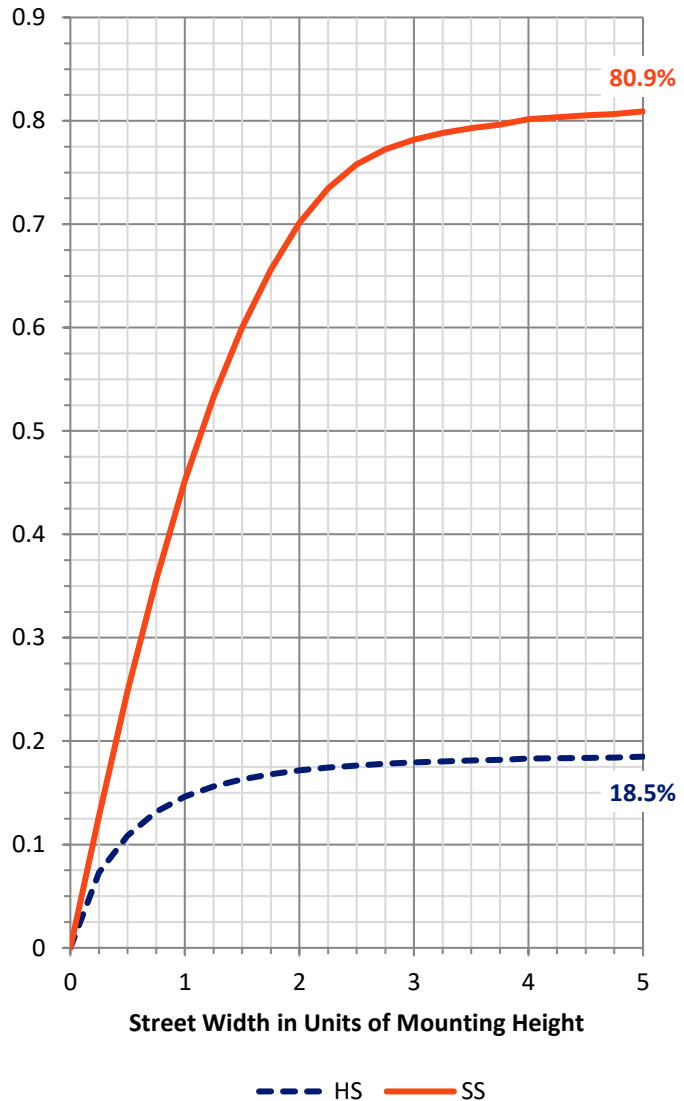
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1392.4	0.0	1392.4
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6031.6	0.0	6031.6
	% Fixture	81.2	0.0	81.2
Total	Lumens	7424.1	0.0	7424.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	1.6
10°-20°	312.3	4.2
20°-30°	474.4	6.4
30°-40°	705.1	9.5
40°-50°	1048.7	14.1
50°-60°	1423.5	19.2
60°-70°	1737.8	23.4
70°-80°	1363.8	18.4
80°-90°	236.2	3.2
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°	7424.1	100.0
0°-180°	7424.1	100.0

Coefficient of Utilization

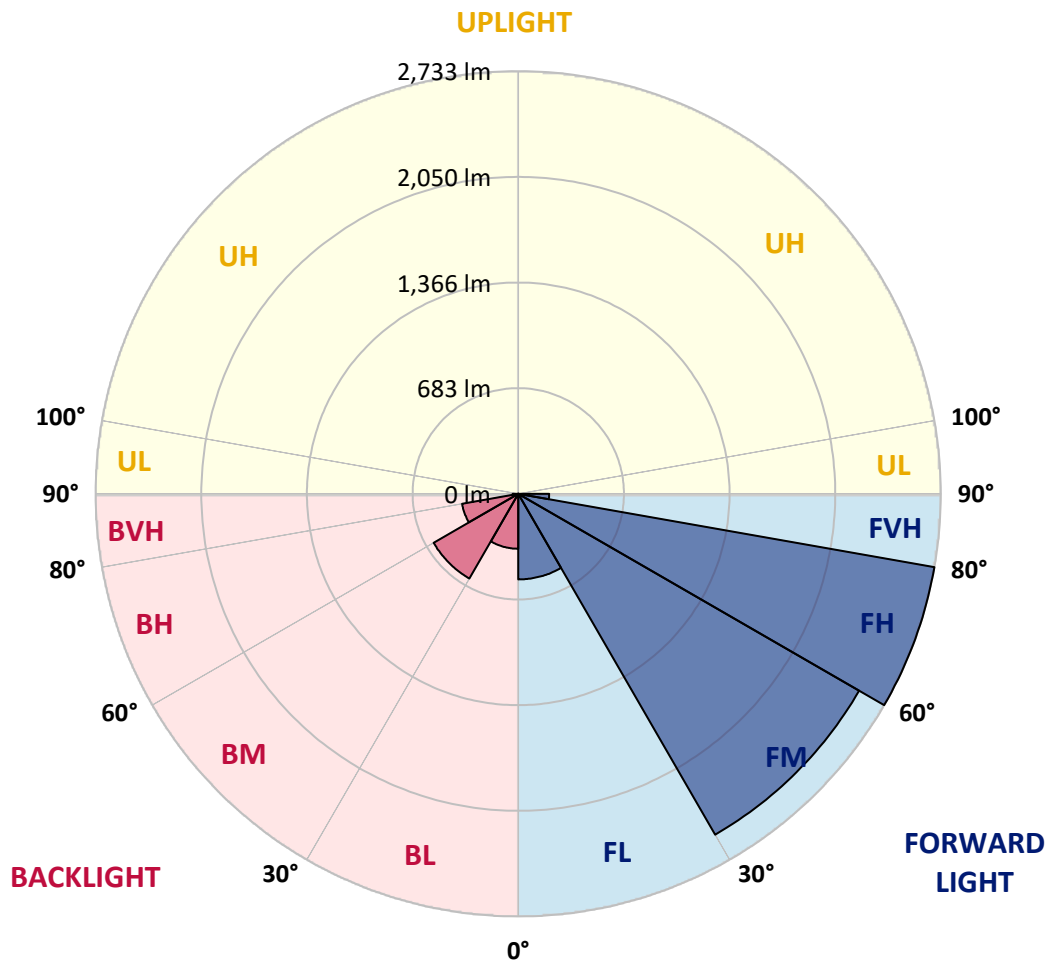


REPORT NUMBER: P961304
 CATALOG NUMBER: NAV-SB2A-722-U-SL3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	553.5	7.5			
FM (30°-60°)	2545.3	34.3			
FH (60°-80°)	2732.7	36.8			G2/5000
FVH (80°-90°)	200.1	2.7			G2/225
BL (0°-30°)	355.3	4.8	B1/500		
BM (30°-60°)	632.0	8.5	B1/1000		
BH (60°-80°)	368.9	5.0	B1/500		G1/500
BVH (80°-90°)	36.2	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-G2
 Type IV Medium



REPORT NUMBER: P961304
 CATALOG NUMBER: NAV-SB2A-722-U-SL3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6
2.5°	1374.2	1369.5	1374.2	1372.3	1371.4	1369.8	1370.2	1373.1	1371.4	1373.5	1366.6
5°	1365.1	1362.2	1367.0	1365.9	1371.0	1371.9	1377.1	1380.3	1382.2	1382.6	1377.5
7.5°	1349.9	1347.1	1353.9	1359.5	1370.6	1373.8	1384.7	1389.8	1392.7	1397.4	1389.8
10°	1294.4	1293.1	1309.9	1331.2	1357.5	1373.8	1390.2	1399.0	1403.4	1416.1	1407.4
12.5°	1196.2	1197.7	1219.6	1260.4	1313.1	1365.9	1396.7	1409.4	1416.1	1432.1	1428.1
15°	1102.3	1101.9	1125.9	1169.4	1243.2	1330.8	1399.8	1421.8	1433.4	1456.9	1453.8
17.5°	1048.0	1046.3	1063.1	1096.2	1165.0	1276.8	1391.8	1428.5	1453.3	1482.9	1480.1
20°	1038.0	1034.7	1043.6	1060.0	1108.6	1217.7	1371.0	1428.5	1469.3	1507.7	1506.0
22.5°	1074.3	1069.2	1065.5	1063.5	1085.1	1169.0	1347.5	1423.8	1492.9	1543.2	1540.4
25°	1147.4	1139.4	1121.0	1103.1	1096.6	1147.0	1326.8	1422.6	1528.0	1591.1	1580.8
27.5°	1265.7	1255.6	1218.5	1175.4	1136.6	1158.1	1317.5	1429.8	1566.7	1641.8	1621.0
30°	1412.2	1401.4	1354.6	1288.4	1218.9	1199.8	1329.1	1450.9	1616.3	1709.3	1668.6
32.5°	1543.5	1531.7	1491.7	1424.1	1330.3	1271.6	1365.9	1491.3	1694.1	1803.2	1740.0
35°	1660.2	1646.3	1610.3	1548.0	1466.9	1372.7	1432.1	1562.7	1804.8	1955.7	1837.1
37.5°	1774.5	1758.1	1718.9	1653.0	1596.3	1507.3	1523.7	1654.7	1951.7	2141.0	1965.7
40°	1902.2	1878.6	1831.2	1766.1	1710.9	1665.0	1643.8	1767.2	2101.1	2348.0	2126.3
42.5°	2026.0	2003.7	1947.0	1891.4	1822.3	1809.1	1783.2	1899.0	2264.4	2575.2	2289.2
45°	2159.5	2132.7	2063.9	1993.7	1950.2	1905.1	1918.2	2030.8	2424.6	2806.9	2460.2
47.5°	2284.4	2254.5	2173.4	2095.1	2071.1	1985.7	2042.0	2175.8	2591.2	3041.7	2629.5
50°	2352.0	2322.3	2254.9	2184.2	2165.4	2085.2	2176.2	2335.2	2765.7	3275.7	2792.0
52.5°	2408.2	2376.3	2288.0	2248.8	2243.3	2193.4	2341.5	2517.3	2940.2	3482.5	2949.0
55°	2468.1	2432.6	2320.0	2284.8	2310.4	2314.8	2537.6	2723.7	3124.7	3684.3	3097.1
57.5°	2537.3	2492.1	2350.7	2315.2	2375.8	2456.9	2762.9	2937.9	3306.0	3871.1	3229.0
60°	2602.4	2556.8	2409.9	2363.5	2446.6	2622.0	3021.3	3197.0	3511.3	4037.7	3353.6
62.5°	2615.1	2577.6	2456.9	2456.5	2542.4	2814.4	3327.3	3458.6	3690.6	4202.2	3465.4
65°	2393.9	2370.3	2298.8	2452.9	2679.9	3091.6	3667.9	3793.3	3918.7	4346.0	3563.6
67.5°	1821.9	1825.1	1820.0	2117.4	2568.8	3489.7	4161.1	4151.6	4200.2	4507.3	3676.7
70°	833.1	851.9	974.1	1461.8	2058.0	3535.6	4976.6	4852.5	4553.7	4716.2	3774.5
72.5°	450.1	464.4	514.4	708.1	1237.3	3143.5	5586.0	5674.3	5023.7	4856.9	3667.0
75°	330.3	338.2	373.0	450.1	519.6	2336.4	5367.6	5820.5	5082.5	4529.0	3166.6
77.5°	247.2	250.8	279.2	356.6	266.0	1231.6	4288.9	4820.5	4350.8	3721.0	2339.2
80°	179.3	183.3	204.5	267.6	186.5	450.5	2945.0	3383.5	2979.8	2371.8	1165.7
82.5°	123.8	125.4	134.6	182.1	130.2	175.0	1671.0	1984.1	1663.4	832.3	314.7
85°	74.7	76.7	80.7	106.2	73.9	83.0	721.3	746.0	497.2	198.8	97.9
87.5°	30.7	32.8	36.0	44.7	29.1	23.2	119.0	149.3	93.1	58.3	30.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P961304
 CATALOG NUMBER: NAV-SB2A-722-U-SL3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6	1362.6
2.5°	1364.7	1361.9	1354.3	1343.9	1334.3	1322.4	1317.1	1312.7	1308.7	1301.1	1297.5
5°	1373.1	1365.5	1345.1	1318.8	1288.8	1256.0	1224.1	1202.1	1183.4	1169.4	1157.8
7.5°	1385.8	1371.4	1334.3	1280.4	1211.8	1141.4	1077.9	1032.8	998.9	986.5	964.9
10°	1399.0	1381.8	1317.1	1222.1	1103.5	995.3	911.0	864.7	837.5	828.7	815.1
12.5°	1414.6	1389.4	1290.4	1141.0	982.5	863.9	790.4	763.2	749.3	744.5	745.6
15°	1437.4	1395.8	1250.1	1039.6	867.0	768.0	720.5	701.7	694.5	694.1	695.7
17.5°	1454.6	1397.0	1187.4	930.9	778.4	710.1	671.0	663.8	668.5	675.8	678.6
20°	1473.7	1386.2	1105.1	831.9	716.1	659.4	643.0	647.8	659.4	669.7	673.3
22.5°	1487.3	1366.6	1005.6	754.8	662.2	630.2	629.5	639.4	645.8	651.0	653.7
25°	1499.3	1333.5	900.2	690.1	617.9	612.6	621.5	618.3	613.9	618.3	621.0
27.5°	1508.1	1281.2	806.0	633.4	586.7	600.6	595.4	588.2	587.8	590.3	594.3
30°	1505.2	1211.3	728.5	579.5	564.7	578.3	565.9	564.7	563.5	564.7	569.1
32.5°	1505.2	1131.8	668.9	542.3	550.7	545.5	544.4	541.5	536.8	536.4	541.5
35°	1513.6	1052.4	617.9	522.3	539.2	526.7	527.6	520.8	510.8	506.0	510.8
37.5°	1530.8	988.4	567.1	512.8	518.8	518.3	515.2	503.6	486.1	470.9	476.0
40°	1572.4	969.6	532.4	508.4	509.2	514.0	505.6	483.3	443.3	418.5	421.8
42.5°	1637.4	1001.2	524.8	497.6	502.9	507.6	491.3	439.3	410.9	396.2	396.2
45°	1720.2	1056.4	541.2	482.1	487.6	496.0	447.3	422.5	409.8	410.2	412.2
47.5°	1824.7	1114.3	571.5	468.4	465.7	470.5	418.1	402.9	385.4	389.8	401.0
50°	1945.8	1173.0	600.2	450.1	441.3	425.8	399.3	385.0	362.6	352.3	355.1
52.5°	2076.8	1229.7	611.8	427.7	414.9	397.0	386.6	369.0	341.8	324.7	324.3
55°	2201.0	1281.2	599.1	401.0	388.6	374.6	373.0	362.2	333.1	309.1	309.1
57.5°	2318.3	1324.3	567.1	373.8	361.8	353.4	364.2	359.1	322.3	291.5	290.0
60°	2417.9	1353.9	520.8	346.2	337.8	333.4	349.8	348.3	307.1	272.8	271.6
62.5°	2496.9	1365.5	469.7	319.9	317.9	310.0	329.8	329.8	287.9	254.4	253.2
65°	2558.8	1354.3	417.8	294.0	298.0	286.0	305.6	303.1	267.6	238.0	236.5
67.5°	2613.5	1317.5	360.3	268.3	277.6	262.4	279.9	274.4	245.2	221.6	220.1
70°	2637.8	1232.0	294.8	242.8	254.0	239.2	254.4	244.1	220.1	204.1	200.9
72.5°	2442.2	1024.0	232.1	216.1	225.6	213.7	226.8	214.8	192.9	185.7	179.7
75°	2020.5	768.4	178.6	186.9	194.1	184.9	193.7	184.9	164.9	170.1	155.4
77.5°	1467.3	518.8	136.6	156.1	159.4	154.6	162.2	152.2	134.2	132.9	127.0
80°	729.7	303.9	107.0	123.4	122.2	119.0	127.8	123.0	107.8	114.2	113.1
82.5°	211.3	130.2	77.9	86.7	84.3	85.1	91.4	93.9	140.6	139.4	142.6
85°	66.3	51.1	46.7	48.3	45.9	47.2	53.9	107.0	99.0	57.9	62.7
87.5°	17.2	17.5	11.6	12.4	12.8	15.2	17.2	65.1	31.2	20.4	21.5
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)