

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: P960266

Luminaire Tested: **NAV-SB1C-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-T3R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6511.8 lumens
Efficiency: N/A
Efficacy: 119.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

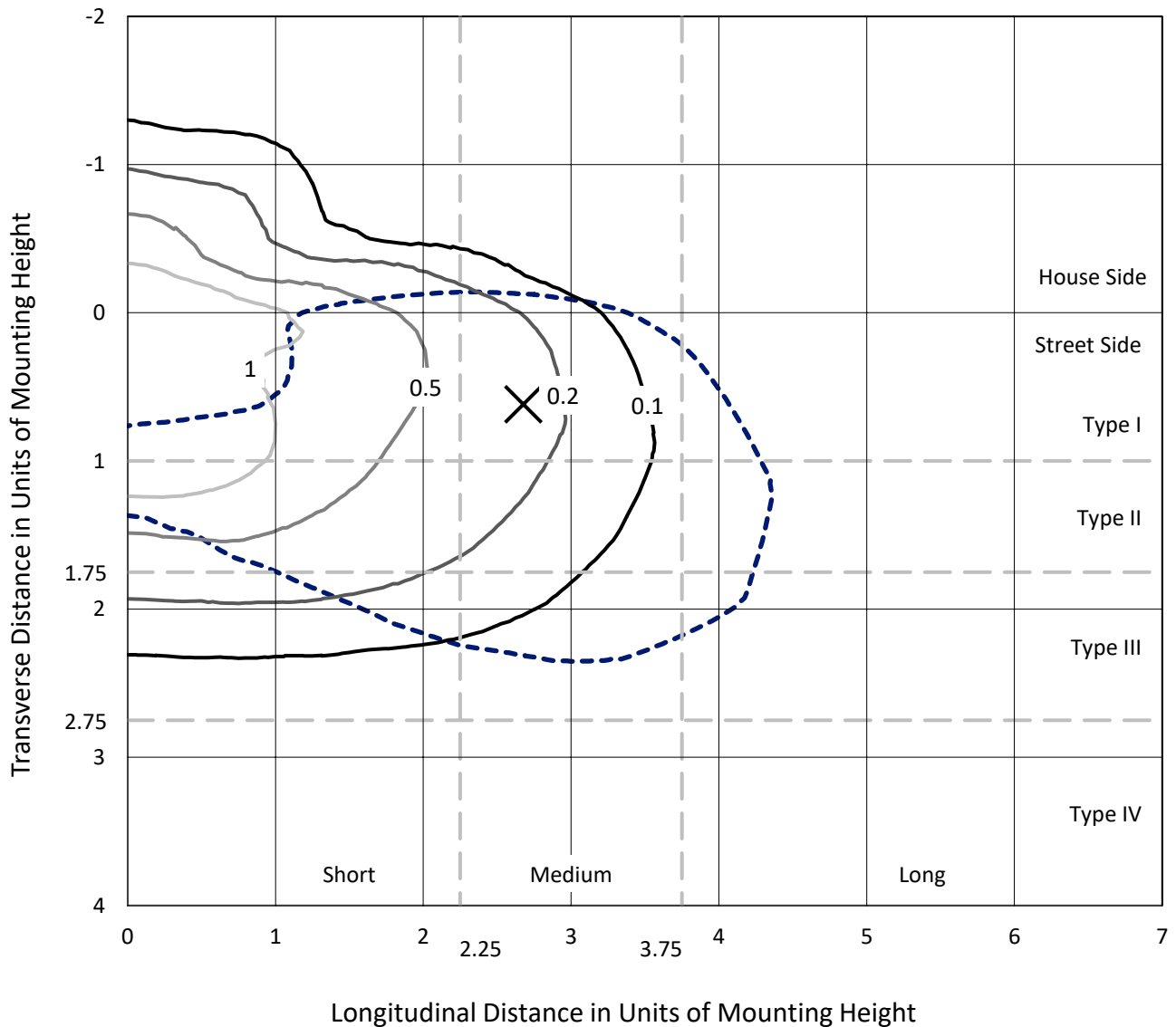
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

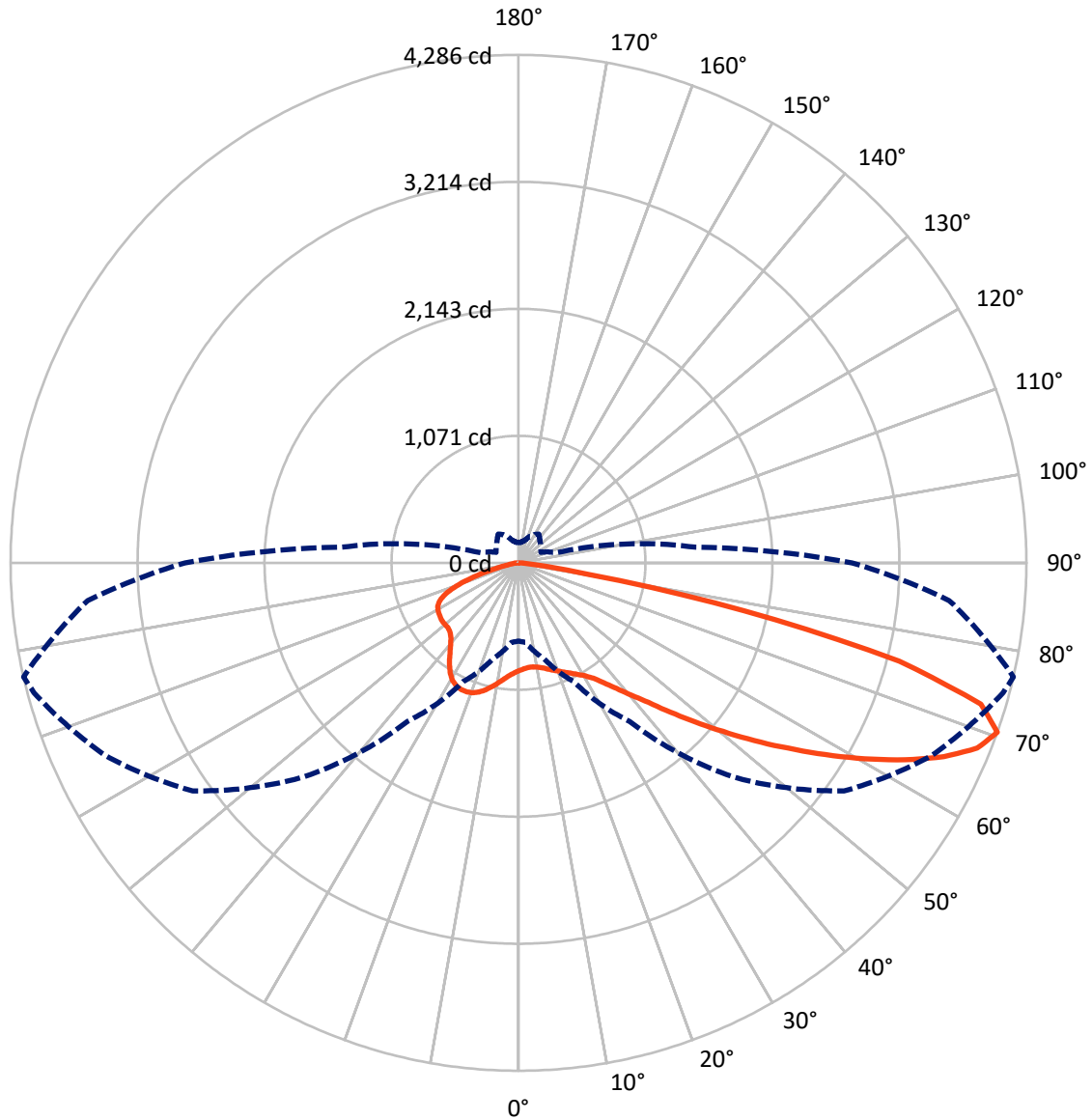
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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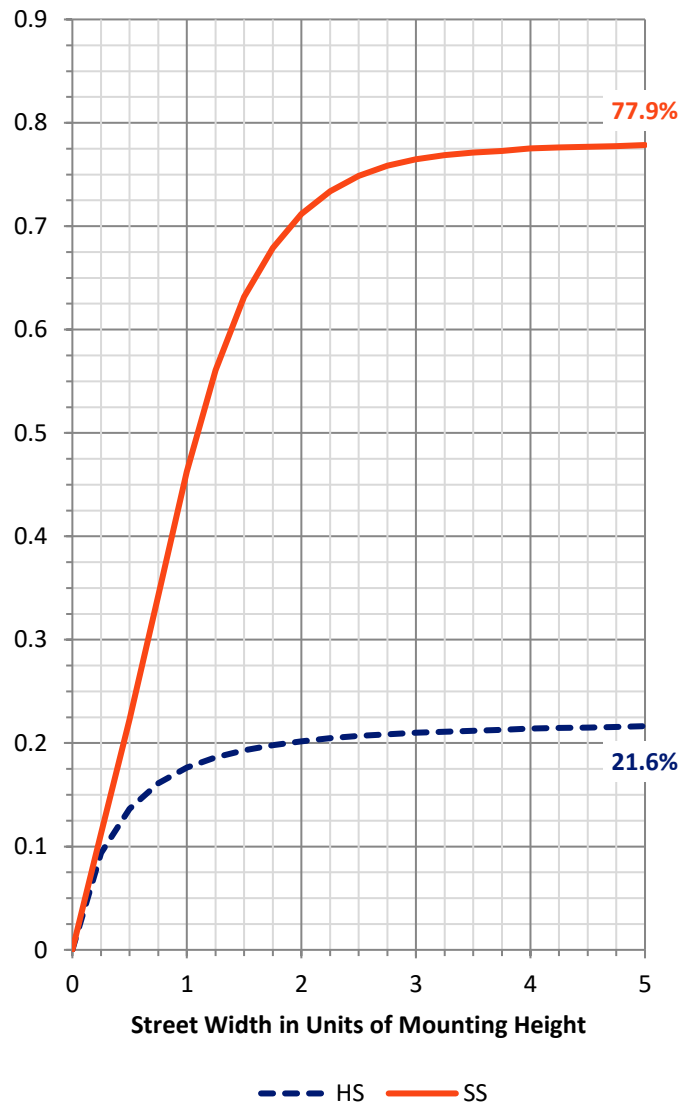
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1426.0	0.0	1426.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	5085.8	0.0	5085.8
	% Fixture	78.1	0.0	78.1
Total	Lumens	6511.8	0.0	6511.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	1.3
10°-20°	250.1	3.8
20°-30°	427.6	6.6
30°-40°	687.7	10.6
40°-50°	1073.6	16.5
50°-60°	1434.1	22.0
60°-70°	1528.6	23.5
70°-80°	941.0	14.5
80°-90°	82.5	1.3
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°	6511.8	100.0
0°-180°	6511.8	100.0

Coefficient of Utilization

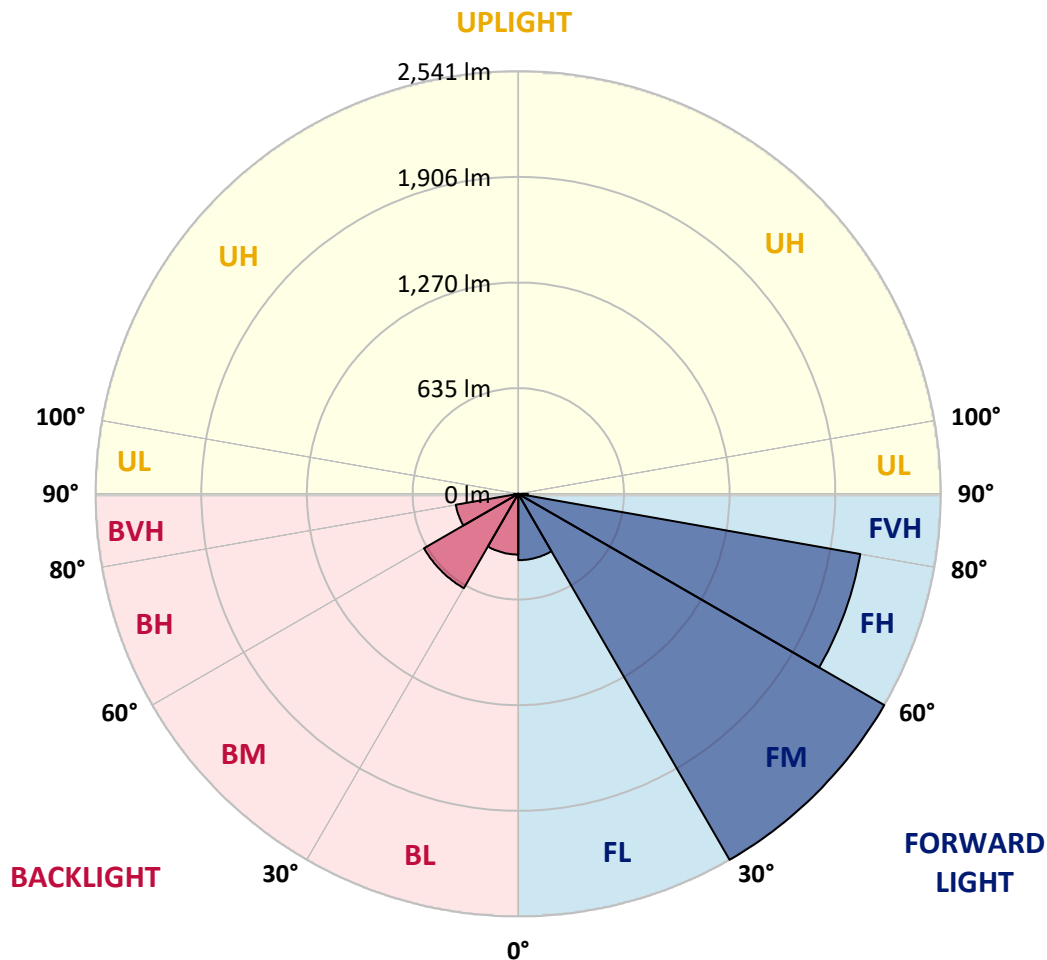


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.0	6.1			
FM (30°-60°)	2540.8	39.0			
FH (60°-80°)	2088.5	32.1			G2/5000
FVH (80°-90°)	57.7	0.9			G1/100
BL (0°-30°)	365.4	5.6	B1/500		
BM (30°-60°)	654.7	10.1	B1/1000		
BH (60°-80°)	381.1	5.9	B1/500		G1/500
BVH (80°-90°)	24.8	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5
2.5°	837.4	837.1	841.4	842.8	850.7	856.4	867.2	878.4	893.1	894.8	903.7
5°	789.0	789.0	794.1	799.4	809.7	821.1	837.4	857.1	882.4	886.4	908.8
7.5°	748.0	750.7	755.0	765.4	777.4	793.8	818.8	846.8	880.1	886.4	922.5
10°	715.0	718.0	723.3	731.7	749.7	772.4	805.0	841.1	885.8	895.7	942.5
12.5°	704.7	707.7	710.7	717.0	733.7	760.3	799.4	843.8	899.4	909.5	969.9
15°	728.7	732.4	730.0	728.4	737.1	761.4	802.1	853.4	916.5	930.8	1003.5
17.5°	784.0	785.4	780.0	764.3	763.0	776.0	814.8	866.7	937.8	953.5	1037.5
20°	873.4	871.1	860.1	829.1	811.4	808.7	836.4	886.8	959.8	976.5	1074.2
22.5°	994.9	992.2	970.2	921.2	881.8	855.8	867.8	912.8	984.5	1003.2	1109.9
25°	1146.3	1142.6	1110.2	1043.6	982.5	918.1	910.5	947.1	1014.9	1032.2	1147.3
27.5°	1323.0	1320.0	1284.9	1196.9	1108.8	1003.5	963.5	987.5	1046.5	1066.2	1189.3
30°	1513.1	1521.8	1459.7	1365.0	1253.7	1114.9	1034.8	1037.2	1087.5	1105.3	1240.2
32.5°	1736.6	1751.5	1676.8	1556.8	1404.7	1235.9	1124.9	1106.6	1147.3	1161.9	1304.6
35°	1958.0	1975.0	1913.0	1780.2	1605.1	1378.7	1218.9	1186.2	1226.6	1242.6	1390.0
37.5°	2149.4	2172.1	2140.1	2024.7	1819.6	1550.8	1341.7	1280.0	1324.3	1344.4	1504.8
40°	2300.5	2335.2	2332.8	2260.8	2072.3	1759.5	1497.4	1395.7	1445.8	1467.4	1643.8
42.5°	2423.2	2453.2	2479.3	2475.6	2336.2	1996.7	1680.5	1546.1	1584.1	1609.1	1800.2
45°	2508.0	2540.0	2596.0	2656.4	2590.0	2250.5	1890.3	1724.6	1759.2	1796.9	1986.7
47.5°	2583.6	2620.0	2692.7	2788.4	2805.4	2505.3	2120.1	1932.3	1964.0	2003.1	2173.7
50°	2590.3	2621.6	2734.4	2870.1	2958.5	2750.1	2366.8	2165.4	2195.1	2236.8	2374.2
52.5°	2429.2	2478.6	2675.4	2867.7	3028.9	2954.9	2612.0	2407.9	2441.2	2491.3	2581.7
55°	1885.6	1958.0	2502.2	2778.4	3003.9	3087.2	2845.1	2665.7	2708.4	2760.7	2790.5
57.5°	1624.1	1655.9	1986.3	2615.7	2889.8	3121.5	3041.9	2926.2	2994.8	3052.2	3011.1
60°	1459.7	1486.0	1681.5	2362.5	2739.7	3067.2	3193.9	3168.9	3287.7	3356.1	3237.0
62.5°	1283.6	1308.6	1486.5	1972.6	2547.6	2976.8	3290.0	3393.1	3587.8	3662.5	3449.7
65°	1108.8	1130.3	1300.6	1657.5	2303.5	2886.5	3339.7	3586.8	3865.6	3943.0	3626.4
67.5°	914.1	931.8	1092.9	1398.4	2006.6	2762.7	3364.4	3739.2	4107.4	4173.8	3713.9
70°	659.7	673.3	839.8	1105.9	1634.2	2550.0	3354.3	3847.2	4232.8	4285.8	3647.9
72.5°	311.8	324.2	519.6	718.0	1154.3	2135.8	3151.9	3761.5	4105.4	4079.1	3243.6
75°	166.5	177.1	298.5	393.9	609.7	1464.1	2579.3	3240.3	3447.4	3319.4	2397.2
77.5°	112.7	121.1	184.8	236.5	278.5	695.1	1657.8	2243.4	2158.4	1947.0	1200.6
80°	89.4	98.1	151.4	160.1	134.7	251.1	685.0	1038.5	746.0	596.7	341.5
82.5°	68.7	78.4	127.4	116.0	73.4	103.0	199.5	328.5	191.1	145.4	82.7
85°	42.0	52.4	100.0	74.0	41.3	47.0	67.6	91.4	58.3	48.7	29.7
87.5°	21.3	30.0	50.7	27.1	18.7	11.0	18.0	18.0	15.4	13.3	7.7
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°	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5	908.5
2.5°	911.8	918.5	929.8	940.4	948.8	956.8	964.8	969.1	970.5	975.8	978.9
5°	922.5	934.8	956.8	977.5	990.5	998.6	1004.2	1007.5	1008.2	1009.8	1012.5
7.5°	942.2	961.9	992.5	1013.2	1022.8	1022.2	1019.9	1011.5	1008.2	1005.2	1005.8
10°	969.9	995.8	1033.5	1047.9	1041.8	1025.8	1005.2	980.8	969.4	958.5	955.2
12.5°	1004.2	1037.2	1074.2	1073.6	1043.9	1002.9	954.8	917.5	893.8	876.8	872.8
15°	1045.9	1083.8	1112.2	1089.6	1024.5	950.8	880.5	831.8	810.4	791.7	789.8
17.5°	1088.9	1129.6	1142.6	1084.6	975.8	873.8	794.1	755.7	734.7	724.7	727.7
20°	1130.9	1171.3	1160.6	1055.9	901.8	786.4	715.3	694.3	690.0	692.4	691.4
22.5°	1175.3	1211.2	1164.3	1000.5	807.4	697.0	658.0	658.7	668.3	675.4	677.0
25°	1220.6	1245.0	1154.6	920.4	706.0	631.3	621.7	632.3	651.3	665.0	668.7
27.5°	1264.3	1275.0	1133.5	821.4	619.0	584.2	586.0	607.9	636.6	655.7	660.3
30°	1313.6	1301.6	1093.3	710.0	558.6	544.0	557.9	583.6	612.3	629.3	633.3
32.5°	1369.4	1324.7	1029.2	607.0	515.9	511.6	534.6	551.2	564.0	569.0	571.6
35°	1438.7	1357.0	947.1	534.6	477.5	487.9	509.9	501.6	496.6	493.9	496.6
37.5°	1528.8	1400.7	851.1	487.6	446.6	470.9	479.9	453.9	434.2	424.6	426.9
40°	1637.1	1464.7	758.7	451.2	426.9	456.2	440.5	409.2	384.2	370.5	371.6
42.5°	1757.6	1531.8	681.0	423.8	415.8	444.2	411.5	374.2	333.8	329.5	333.8
45°	1884.0	1600.8	628.0	402.8	410.5	433.9	394.8	334.5	305.9	323.5	332.8
47.5°	2010.3	1664.2	595.9	387.2	407.8	422.2	380.2	312.5	292.1	317.9	329.8
50°	2151.1	1720.9	581.6	375.9	404.9	417.6	358.1	306.8	277.8	294.8	307.5
52.5°	2290.9	1764.8	570.9	364.5	400.6	413.9	347.5	300.1	260.5	261.5	268.4
55°	2430.3	1793.5	559.2	349.5	390.8	405.9	346.6	292.8	247.4	242.8	246.1
57.5°	2579.0	1809.9	545.0	332.8	374.2	385.5	345.5	287.1	243.4	235.7	236.8
60°	2730.4	1833.9	526.2	312.5	351.9	361.2	343.2	285.2	241.1	228.2	229.1
62.5°	2866.1	1842.2	503.9	293.2	323.2	337.1	338.1	283.5	234.8	212.5	212.5
65°	2955.2	1806.3	464.9	271.1	292.1	312.5	328.5	277.8	223.4	201.1	201.1
67.5°	2951.5	1703.6	403.8	242.8	262.1	285.2	314.5	268.1	209.8	187.1	188.1
70°	2814.1	1500.8	326.5	209.8	229.1	255.8	296.5	253.8	193.4	171.8	173.7
72.5°	2413.6	1174.5	237.1	171.1	190.8	225.4	273.2	236.5	176.7	158.1	157.0
75°	1724.3	743.3	160.7	131.4	148.4	191.1	244.2	216.1	161.4	158.8	149.8
77.5°	880.8	355.2	106.4	96.0	103.4	150.8	205.1	193.1	163.8	131.1	116.7
80°	286.5	131.1	67.0	65.4	68.7	100.3	158.8	158.4	124.0	89.1	78.7
82.5°	91.4	56.4	43.7	42.0	40.4	63.0	110.7	125.4	83.7	56.4	56.1
85°	36.4	33.7	25.7	23.7	17.0	29.7	58.0	83.3	62.3	40.7	41.7
87.5°	13.3	13.3	7.0	5.0	3.7	10.0	15.7	25.0	35.7	21.0	20.7
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)