

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: P961418

Luminaire Tested: **NAV-SB2A-735-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961418
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-735-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9176.8 lumens
Efficiency: N/A
Efficacy: 160.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

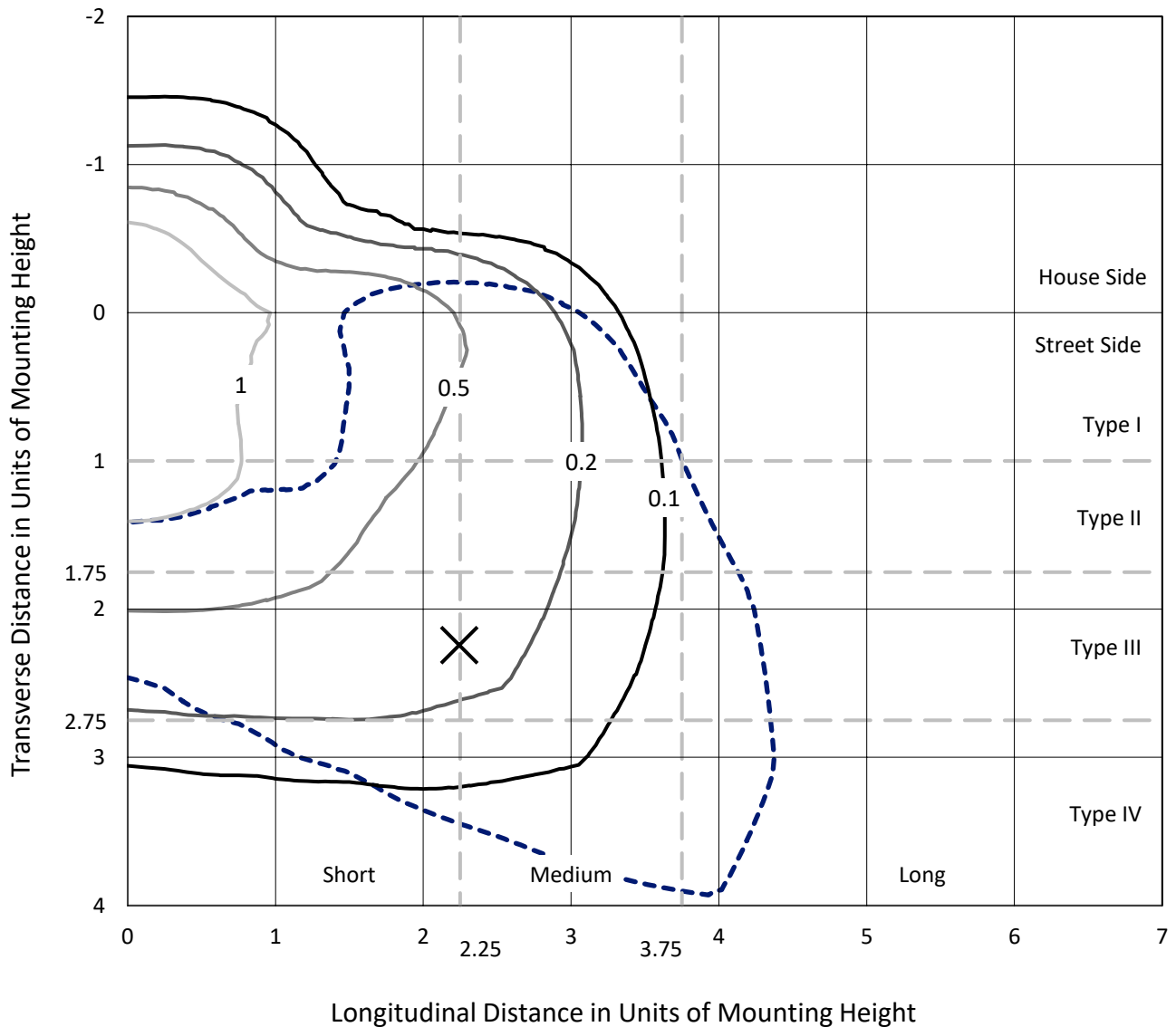
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

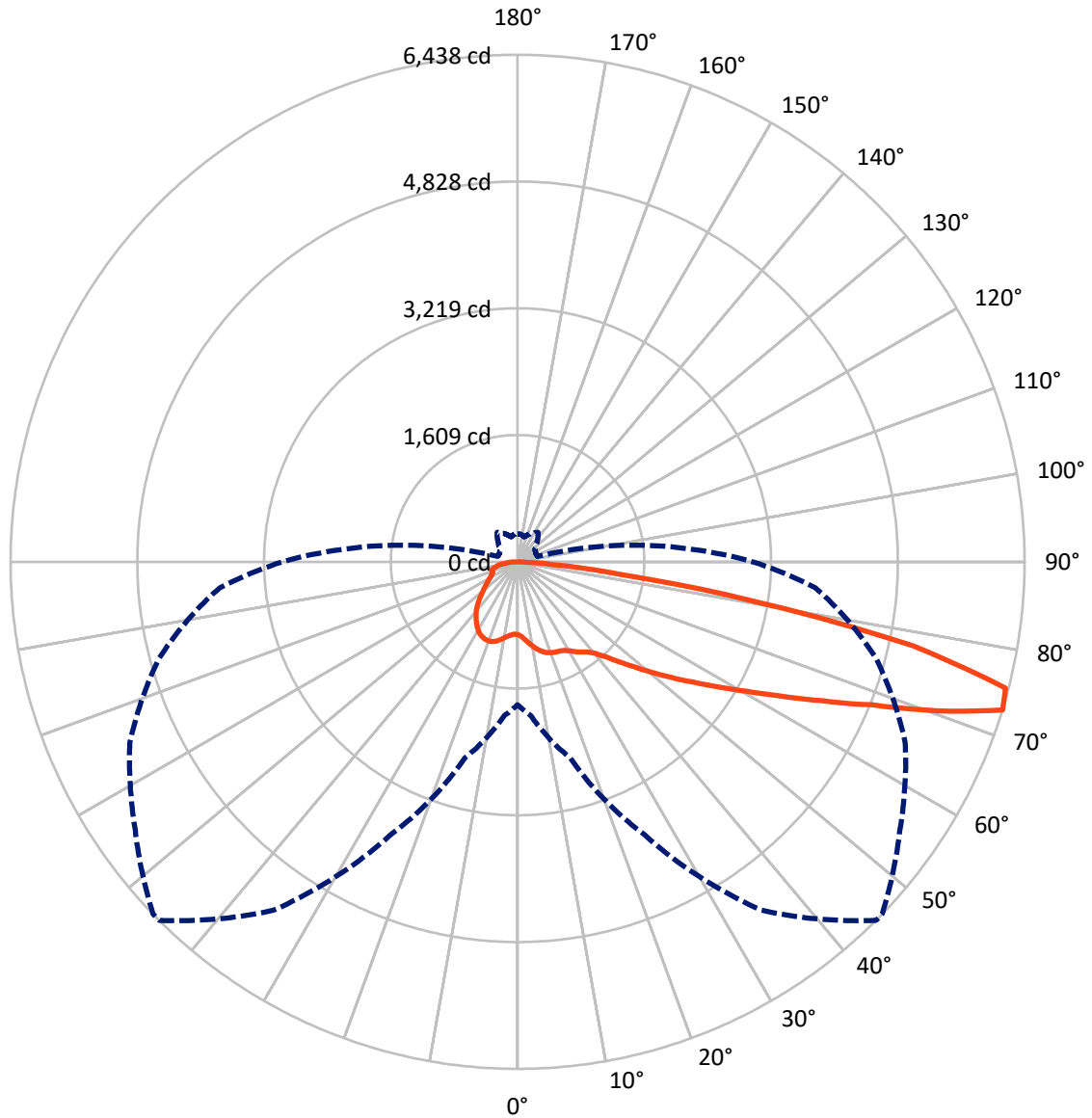
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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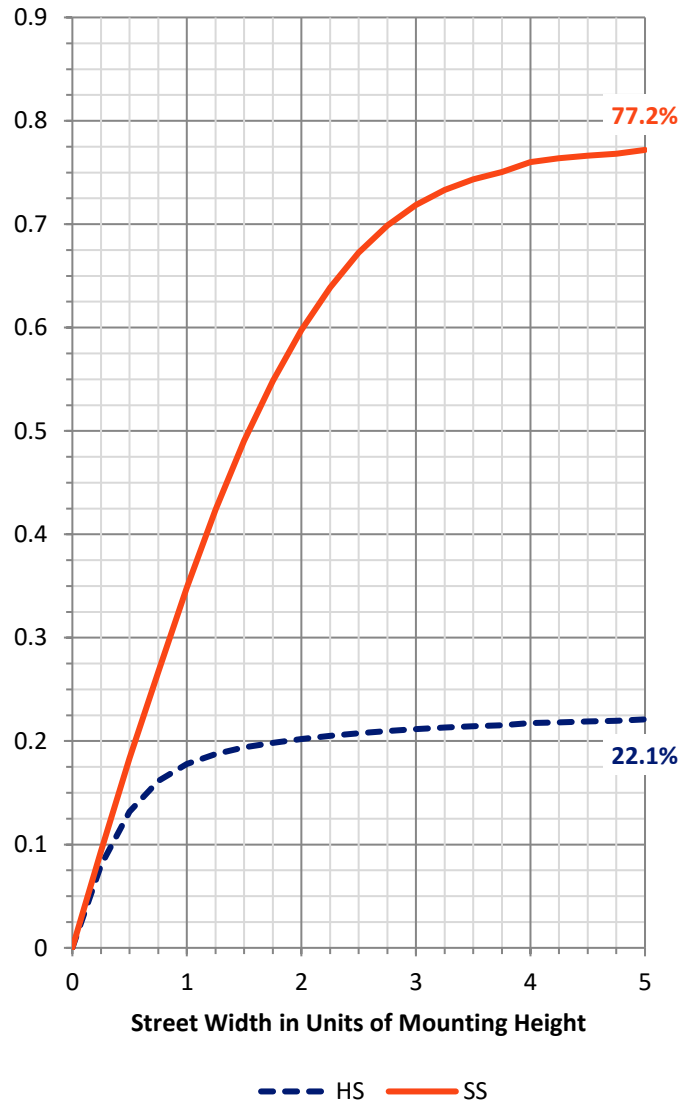
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2074.6	0.0	2074.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7102.3	0.0	7102.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	9176.8	0.0	9176.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.2	1.0
10°-20°	314.2	3.4
20°-30°	546.5	6.0
30°-40°	783.4	8.5
40°-50°	1103.1	12.0
50°-60°	1689.6	18.4
60°-70°	2447.7	26.7
70°-80°	1954.6	21.3
80°-90°	243.4	2.7
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°	9176.8	100.0
0°-180°	9176.8	100.0

Coefficient of Utilization

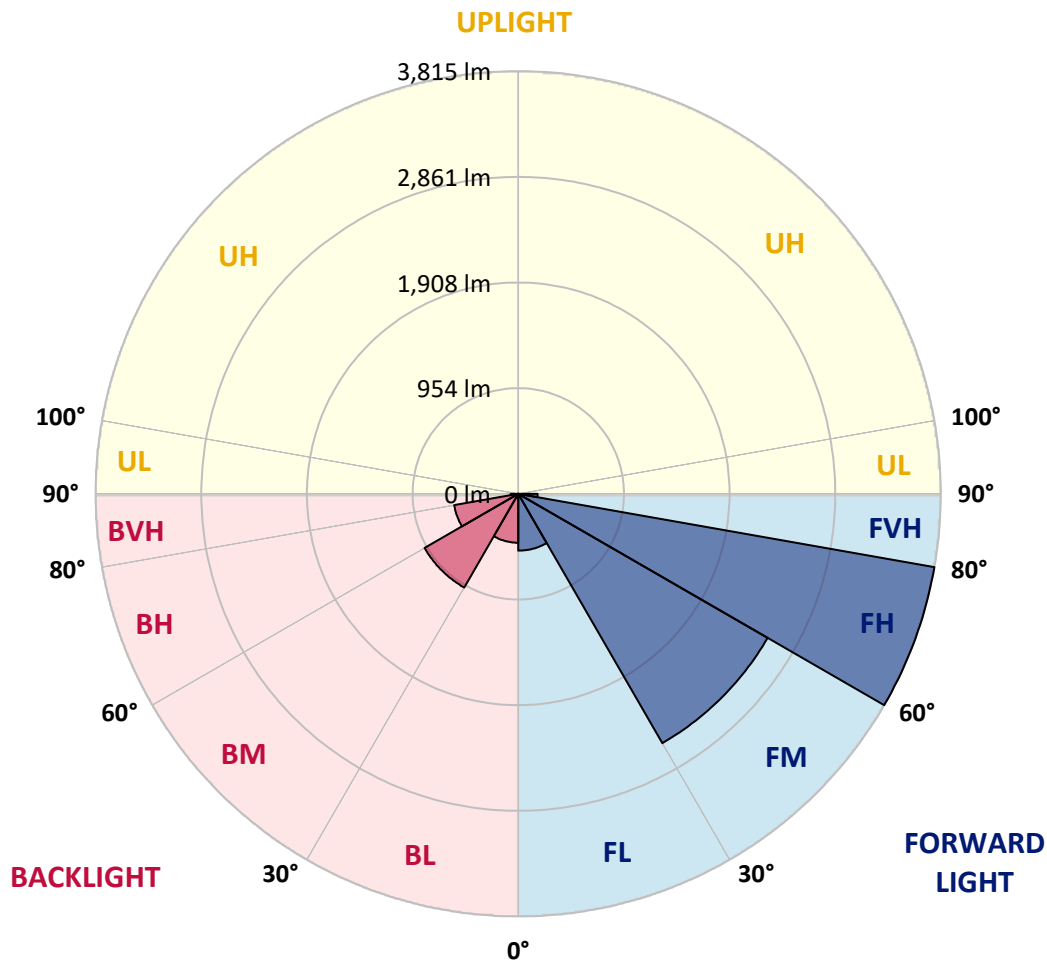


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	513.2	5.6			
FM (30°-60°)	2599.4	28.3			
FH (60°-80°)	3815.1	41.6			G2/5000
FVH (80°-90°)	174.6	1.9			G2/225
BL (0°-30°)	441.7	4.8	B1/500		
BM (30°-60°)	976.8	10.6	B1/1000		
BH (60°-80°)	587.3	6.4	B2/1000		G2/1000
BVH (80°-90°)	68.8	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8
2.5°	962.1	968.3	962.5	957.1	954.8	948.5	948.0	944.1	941.7	934.9	933.1
5°	1029.2	1037.4	1027.8	1017.1	1007.5	992.0	990.0	979.0	966.4	951.9	943.6
7.5°	1105.2	1112.3	1101.3	1085.3	1068.4	1042.7	1042.2	1021.9	1002.1	977.4	963.5
10°	1171.4	1181.0	1166.0	1144.3	1123.0	1094.0	1090.6	1067.4	1042.2	1010.3	989.1
12.5°	1229.8	1236.6	1222.1	1195.6	1170.9	1141.8	1137.5	1111.9	1083.8	1047.6	1020.5
15°	1276.2	1284.9	1265.6	1237.1	1210.9	1182.4	1178.5	1155.4	1127.4	1089.2	1054.3
17.5°	1306.7	1313.9	1294.2	1262.2	1237.1	1213.4	1210.5	1191.2	1166.6	1127.8	1090.6
20°	1318.4	1326.0	1305.2	1272.8	1249.7	1231.3	1229.8	1215.9	1198.9	1163.6	1125.9
22.5°	1329.9	1337.1	1310.1	1276.2	1255.9	1244.4	1243.8	1234.7	1227.9	1198.9	1162.1
25°	1376.8	1378.7	1342.4	1293.7	1264.6	1254.5	1254.0	1253.6	1256.4	1233.7	1201.3
27.5°	1417.4	1417.0	1386.0	1340.1	1295.1	1273.9	1273.4	1278.2	1287.4	1268.5	1241.9
30°	1476.8	1471.6	1434.8	1386.9	1345.8	1313.0	1310.1	1305.7	1313.0	1298.0	1282.6
32.5°	1603.0	1586.1	1526.6	1441.6	1388.0	1362.7	1358.9	1331.9	1334.8	1325.5	1317.8
35°	1783.8	1761.6	1682.3	1545.0	1440.1	1404.4	1402.4	1368.1	1362.3	1354.1	1357.0
37.5°	1999.0	1971.4	1879.1	1694.9	1530.0	1452.7	1449.8	1418.9	1395.1	1386.5	1402.9
40°	2215.0	2180.3	2103.9	1877.6	1662.6	1533.4	1524.3	1477.3	1450.3	1435.8	1470.6
42.5°	2424.8	2395.8	2330.6	2082.6	1825.9	1651.4	1631.1	1550.8	1530.5	1517.0	1579.8
45°	2610.5	2584.4	2536.6	2301.6	2017.3	1811.9	1792.1	1661.0	1654.8	1654.8	1745.7
47.5°	2761.4	2755.5	2704.8	2525.0	2243.1	1994.6	1960.3	1814.4	1831.3	1857.3	1981.1
50°	2928.6	2912.6	2858.5	2745.0	2508.5	2204.0	2175.9	2002.3	2065.7	2137.2	2321.4
52.5°	3082.4	3091.0	3030.6	2974.0	2808.2	2437.4	2388.1	2224.2	2361.1	2479.5	2720.2
55°	3240.4	3240.8	3223.9	3216.2	3122.5	2695.5	2641.4	2491.1	2708.7	2855.6	3185.3
57.5°	3388.9	3389.8	3414.9	3483.1	3486.9	2993.4	2932.0	2818.9	3094.9	3244.7	3664.9
60°	3521.3	3528.0	3596.7	3756.2	3807.5	3334.6	3276.7	3206.1	3494.2	3645.0	4169.1
62.5°	3565.8	3590.4	3743.2	3969.9	4124.1	3753.3	3696.3	3654.2	3913.9	4054.0	4590.7
65°	3490.3	3546.9	3842.3	4146.3	4449.9	4250.8	4194.2	4148.3	4349.9	4481.8	4936.7
67.5°	3305.2	3378.2	3836.5	4331.5	4845.4	4849.3	4796.6	4688.8	4817.4	4868.1	5049.4
70°	2817.4	2926.7	3498.5	4400.6	5299.4	5667.7	5616.9	5339.4	5283.9	5038.3	4732.2
72.5°	1815.3	1962.3	2576.1	3831.7	5400.3	6437.8	6435.0	5926.9	5431.3	4707.6	3795.4
75°	662.3	752.2	1197.0	2405.1	4533.1	6398.7	6417.5	5826.3	4958.0	3636.3	2364.5
77.5°	241.2	263.9	390.6	924.3	2787.9	5134.0	5173.2	4657.8	3529.0	1824.9	936.8
80°	126.7	139.2	200.2	358.7	1194.5	3049.0	3110.4	2768.1	1658.7	549.7	280.8
82.5°	70.1	75.8	112.1	194.9	538.0	1303.8	1340.5	1093.5	583.5	233.0	116.0
85°	37.7	40.1	52.7	106.4	263.0	452.0	462.2	326.8	232.6	136.8	56.1
87.5°	11.1	13.5	17.4	33.8	103.0	101.5	103.9	64.8	91.8	69.1	18.3
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°	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8	925.8
2.5°	930.1	928.6	923.3	921.0	918.0	917.6	919.9	920.4	921.0	921.4	923.3
5°	938.8	934.0	929.2	926.3	927.2	927.7	932.5	935.9	938.3	940.2	941.3
7.5°	955.7	951.9	943.6	943.2	944.6	948.9	955.3	963.0	967.3	970.7	971.7
10°	980.8	973.6	963.9	965.4	968.3	974.6	987.7	993.9	1001.2	1007.5	1006.0
12.5°	1006.4	1000.2	989.1	990.0	994.9	1006.0	1018.5	1026.3	1031.1	1036.0	1037.9
15°	1039.9	1028.7	1016.7	1016.7	1025.3	1037.4	1043.2	1049.5	1052.5	1057.7	1059.6
17.5°	1074.2	1059.6	1043.8	1042.7	1053.4	1059.2	1062.6	1063.5	1064.5	1070.3	1072.3
20°	1108.5	1092.5	1069.8	1067.8	1070.3	1069.4	1068.9	1067.8	1069.4	1076.6	1079.5
22.5°	1142.4	1124.0	1092.5	1083.8	1077.1	1067.8	1067.4	1066.9	1067.8	1075.1	1079.9
25°	1182.0	1159.8	1117.7	1091.6	1068.9	1056.3	1057.7	1058.2	1059.2	1065.0	1072.8
27.5°	1225.0	1200.4	1140.9	1089.2	1048.1	1039.4	1037.0	1038.4	1041.8	1050.9	1060.2
30°	1268.0	1239.0	1162.1	1079.5	1021.9	1009.8	1002.1	1005.5	1016.2	1025.3	1035.5
32.5°	1307.2	1278.2	1179.1	1058.2	988.6	969.8	959.6	963.9	974.6	978.0	990.0
35°	1353.1	1320.2	1186.3	1024.4	952.3	923.3	909.8	903.5	908.9	905.5	916.1
37.5°	1404.4	1370.0	1185.4	979.9	909.8	876.5	857.6	833.9	822.8	811.2	818.5
40°	1480.3	1430.9	1173.7	926.3	857.1	826.7	792.8	752.7	727.5	704.8	706.3
42.5°	1583.7	1515.6	1152.5	867.3	797.7	769.2	723.2	676.3	636.6	599.0	595.6
45°	1737.9	1626.3	1125.9	804.4	733.4	705.3	655.5	602.8	557.9	509.5	503.7
47.5°	1960.3	1775.1	1100.7	732.9	665.6	640.0	595.1	546.2	493.1	446.2	440.9
50°	2265.9	1988.8	1077.6	663.3	599.0	579.6	543.9	494.0	440.4	402.7	400.3
52.5°	2654.5	2279.4	1067.8	596.0	536.6	529.3	500.8	454.4	403.6	371.8	369.3
55°	3100.7	2627.0	1067.8	531.8	482.0	484.4	464.5	421.6	377.5	349.0	346.1
57.5°	3556.1	2978.9	1048.6	472.3	435.5	445.7	433.2	395.4	355.8	326.4	321.4
60°	3975.7	3273.7	970.3	418.2	394.5	410.4	402.2	369.8	321.4	296.8	292.9
62.5°	4298.1	3440.1	819.4	375.2	360.6	379.0	374.6	336.0	315.2	305.0	301.7
65°	4459.6	3413.0	626.5	336.9	332.1	360.6	351.5	350.0	333.5	322.0	318.1
67.5°	4360.6	3180.0	454.4	308.9	315.7	343.7	379.0	384.8	354.3	331.6	327.8
70°	3926.0	2758.5	338.4	282.3	294.9	344.2	432.1	402.7	347.6	321.0	316.6
72.5°	2986.6	2057.0	262.5	254.3	267.8	346.7	455.9	394.5	328.2	354.9	352.0
75°	1708.0	1129.2	210.7	220.0	234.0	323.9	443.8	373.2	313.2	325.8	325.8
77.5°	651.2	434.1	174.0	186.1	188.1	282.8	424.5	371.8	298.3	291.0	265.4
80°	225.8	169.6	144.0	147.9	145.5	251.4	407.0	323.4	244.2	218.5	211.3
82.5°	92.4	84.6	114.1	109.3	103.4	195.3	328.7	264.4	199.7	176.4	174.6
85°	40.1	53.7	75.4	66.2	60.0	135.4	263.4	223.9	168.7	145.5	145.0
87.5°	8.2	20.3	31.9	29.9	31.0	90.4	187.1	159.1	119.4	89.5	70.1
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)