

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: McGRAW-EDISON

Report Number: P946635

Luminaire Tested: **GALN-SB2B-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946635
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: McGRAW-EDISON
Catalog Number: GALN-SB2B-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9284 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

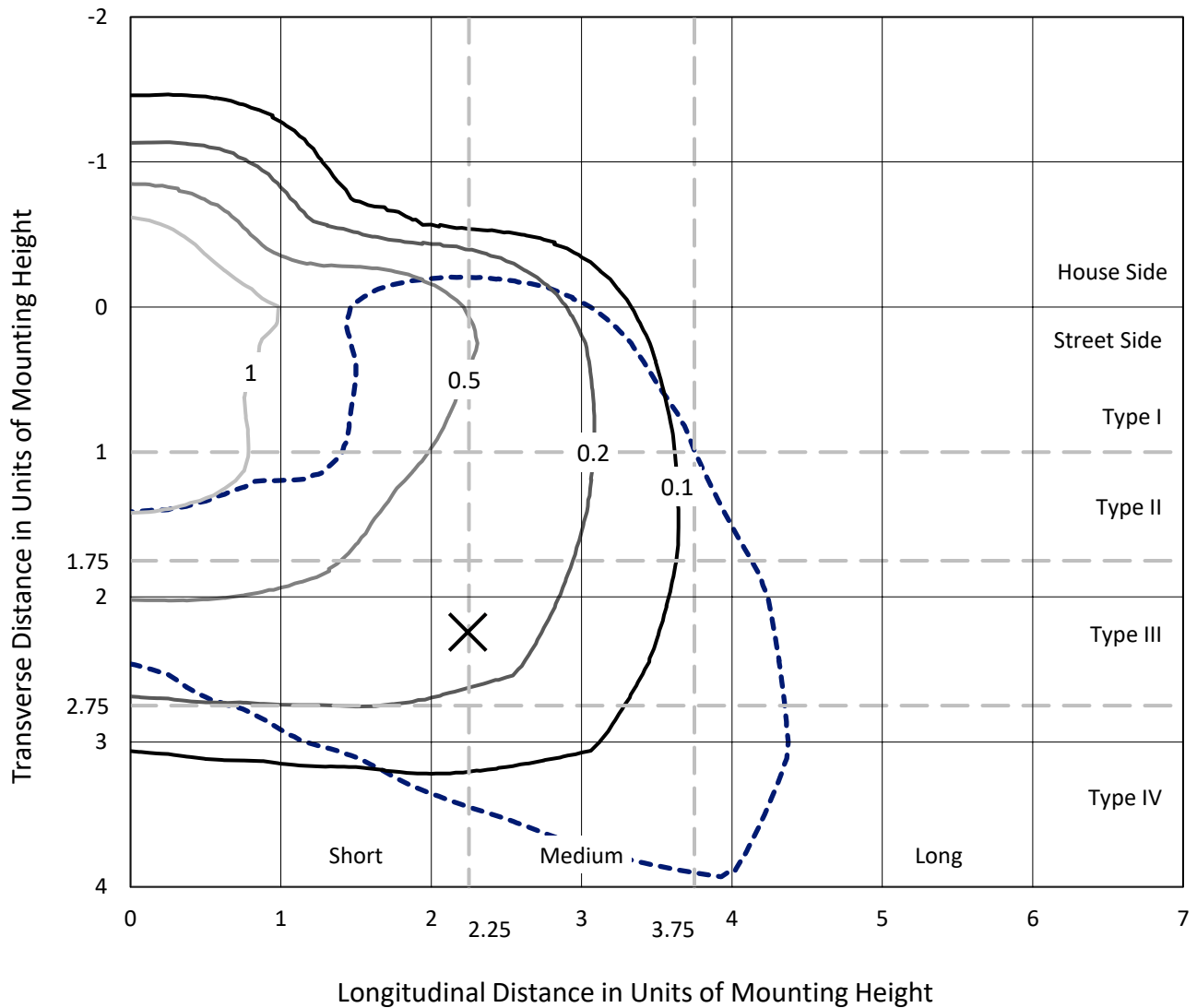
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

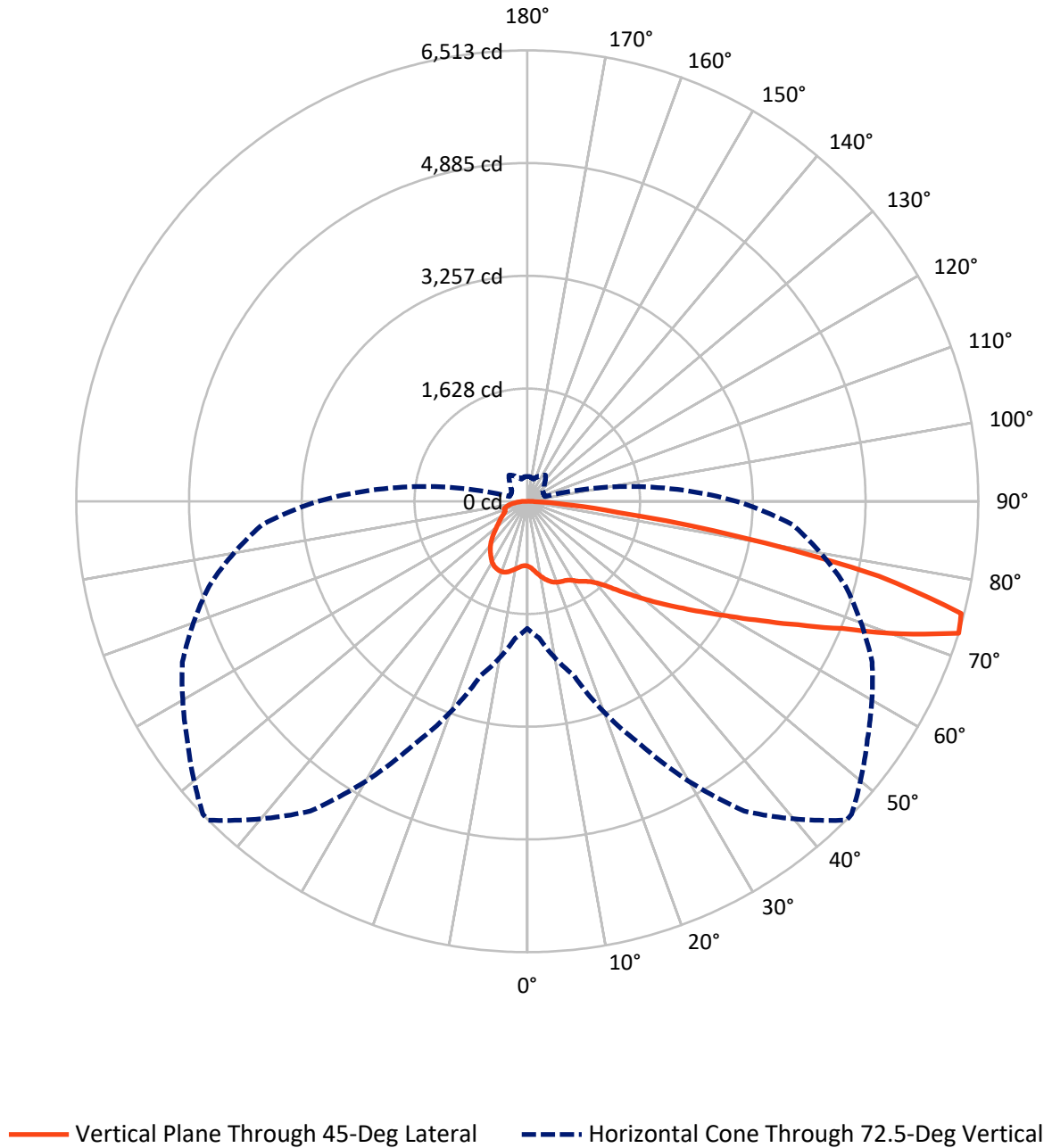
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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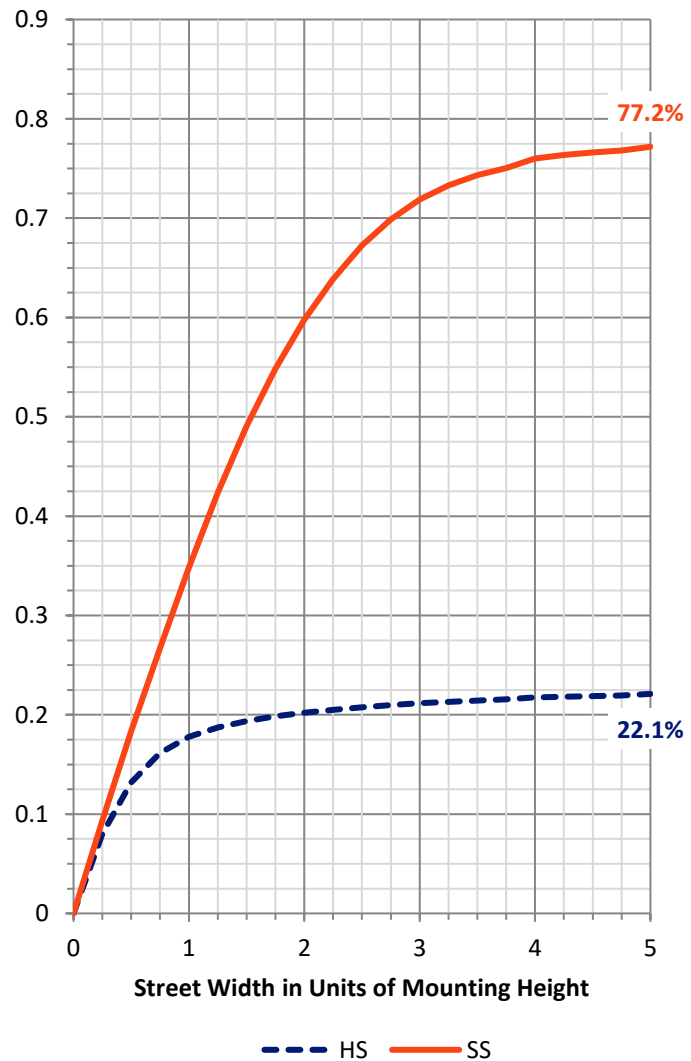
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2098.8	0.0	2098.8
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7185.2	0.0	7185.2
	% Fixture	77.4	0.0	77.4
Total	Lumens	9284.0	0.0	9284.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.0
10°-20°	317.8	3.4
20°-30°	552.9	6.0
30°-40°	792.6	8.5
40°-50°	1116.0	12.0
50°-60°	1709.4	18.4
60°-70°	2476.3	26.7
70°-80°	1977.5	21.3
80°-90°	246.3	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°	9284.0	100.0
0°-180°	9284.0	100.0

Coefficient of Utilization



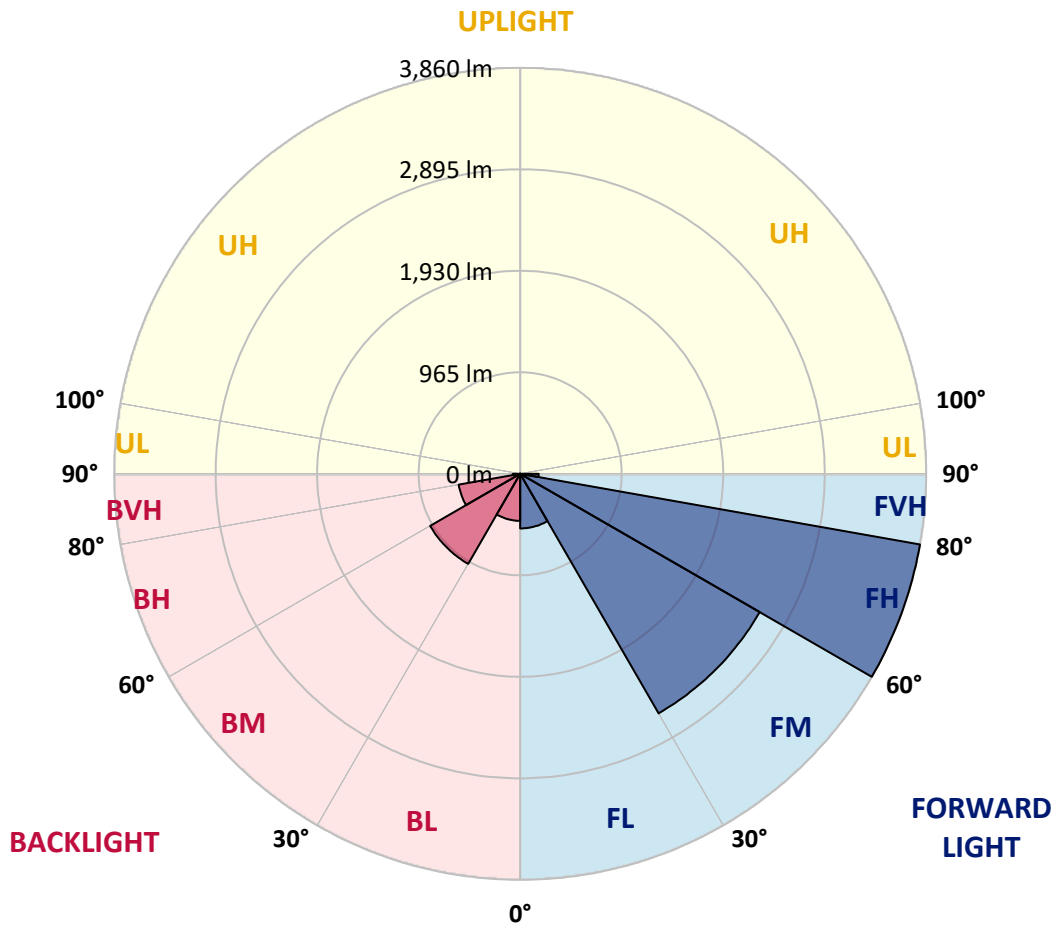
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	519.2	5.6			
FM (30°-60°)	2629.7	28.3			
FH (60°-80°)	3859.6	41.6			G2/5000
FVH (80°-90°)	176.7	1.9			G2/225
BL (0°-30°)	446.8	4.8	B1/500		
BM (30°-60°)	988.2	10.6	B1/1000		
BH (60°-80°)	594.1	6.4	B2/1000		G2/1000
BVH (80°-90°)	69.6	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°	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6
2.5°	973.3	979.6	973.7	968.4	965.9	959.6	959.1	955.2	952.7	945.9	943.9
5°	1041.2	1049.6	1039.8	1029.0	1019.2	1003.6	1001.6	990.4	977.7	963.0	954.7
7.5°	1118.0	1125.4	1114.1	1098.0	1080.9	1054.9	1054.4	1033.9	1013.8	988.9	974.7
10°	1185.0	1194.8	1179.6	1157.6	1136.1	1106.8	1103.3	1079.9	1054.4	1022.2	1000.6
12.5°	1244.2	1251.0	1236.4	1209.5	1184.5	1155.2	1150.8	1124.9	1096.5	1059.8	1032.4
15°	1291.2	1300.0	1280.4	1251.5	1225.1	1196.3	1192.4	1168.9	1140.5	1101.9	1066.7
17.5°	1322.0	1329.3	1309.2	1277.0	1251.5	1227.6	1224.6	1205.1	1180.1	1141.0	1103.3
20°	1333.7	1341.5	1320.5	1287.7	1264.3	1245.7	1244.2	1230.0	1212.9	1177.2	1139.1
22.5°	1345.4	1352.8	1325.4	1291.2	1270.6	1258.9	1258.4	1249.1	1242.2	1212.9	1175.7
25°	1392.9	1394.8	1358.2	1308.8	1279.4	1269.1	1268.7	1268.2	1271.1	1248.1	1215.3
27.5°	1434.0	1433.5	1402.2	1355.7	1310.2	1288.7	1288.2	1293.1	1302.4	1283.3	1256.4
30°	1494.1	1488.7	1451.6	1403.2	1361.6	1328.3	1325.4	1321.0	1328.3	1313.2	1297.5
32.5°	1621.8	1604.6	1544.5	1458.4	1404.1	1378.7	1374.8	1347.4	1350.3	1341.0	1333.2
35°	1804.7	1782.2	1702.0	1563.1	1456.9	1420.8	1418.8	1384.1	1378.2	1369.9	1372.8
37.5°	2022.3	1994.4	1901.0	1714.7	1547.9	1469.7	1466.7	1435.4	1411.5	1402.7	1419.3
40°	2240.9	2205.7	2128.4	1899.6	1681.9	1551.3	1542.0	1494.6	1467.2	1452.5	1487.8
42.5°	2453.2	2423.8	2357.8	2106.9	1847.2	1670.7	1650.1	1568.9	1548.4	1534.7	1598.3
45°	2641.0	2614.6	2566.2	2328.5	2040.9	1833.0	1813.0	1680.5	1674.1	1674.1	1766.0
47.5°	2793.6	2787.7	2736.4	2554.4	2269.3	2017.9	1983.2	1835.5	1852.6	1879.0	2004.2
50°	2962.8	2946.7	2891.9	2777.0	2537.8	2229.7	2201.3	2025.7	2089.8	2162.2	2348.5
52.5°	3118.3	3127.1	3066.0	3008.8	2841.0	2465.9	2416.0	2250.2	2388.6	2508.5	2752.0
55°	3278.3	3278.7	3261.6	3253.8	3158.9	2727.1	2672.3	2520.2	2740.3	2889.0	3222.5
57.5°	3428.4	3429.4	3454.8	3523.8	3527.7	3028.3	2966.2	2851.8	3131.0	3282.7	3707.7
60°	3562.4	3569.3	3638.7	3800.1	3851.9	3373.6	3314.9	3243.5	3535.0	3687.6	4217.8
62.5°	3607.4	3632.3	3786.9	4016.3	4172.3	3797.2	3739.5	3696.9	3959.5	4101.4	4644.2
65°	3531.1	3588.3	3887.2	4194.8	4501.9	4300.4	4243.2	4196.7	4400.7	4534.2	4994.4
67.5°	3343.8	3417.6	3881.3	4382.1	4902.0	4905.9	4852.6	4743.5	4873.6	4925.0	5108.4
70°	2850.3	2960.8	3539.4	4452.0	5361.2	5733.9	5682.5	5401.8	5345.6	5097.1	4787.5
72.5°	1836.5	1985.1	2606.3	3876.4	5463.4	6513.0	6510.1	5996.0	5494.7	4762.6	3839.7
75°	670.0	761.0	1210.9	2433.1	4586.0	6473.4	6492.4	5894.3	5015.9	3678.8	2392.1
77.5°	244.0	267.0	395.2	935.1	2820.5	5194.0	5233.6	4712.2	3570.2	1846.3	947.8
80°	128.1	140.9	202.5	362.9	1208.5	3084.6	3146.7	2800.4	1678.0	556.1	284.2
82.5°	70.9	76.8	113.5	197.1	544.3	1319.0	1356.2	1106.3	590.3	235.7	117.4
85°	38.1	40.6	53.3	107.6	266.1	457.3	467.6	330.6	235.2	138.4	56.7
87.5°	11.2	13.7	17.6	34.2	104.2	102.7	105.2	65.5	92.9	69.9	18.6
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°	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6	936.6
2.5°	941.0	939.5	934.1	931.7	928.7	928.3	930.7	931.2	931.7	932.2	934.1
5°	949.8	944.9	940.0	937.1	938.0	938.5	943.4	946.8	949.3	951.2	952.2
7.5°	966.9	963.0	954.7	954.2	955.6	960.1	966.4	974.2	978.6	982.1	983.0
10°	992.3	985.0	975.2	976.7	979.6	986.0	999.2	1005.5	1012.9	1019.2	1017.8
12.5°	1018.3	1011.9	1000.6	1001.6	1006.5	1017.8	1030.5	1038.3	1043.2	1048.1	1050.0
15°	1052.0	1040.7	1028.5	1028.5	1037.3	1049.6	1055.4	1061.8	1064.7	1070.1	1072.0
17.5°	1086.7	1072.0	1055.9	1054.9	1065.7	1071.6	1075.0	1076.0	1076.9	1082.8	1084.8
20°	1121.4	1105.3	1082.3	1080.4	1082.8	1081.8	1081.3	1080.4	1081.8	1089.2	1092.1
22.5°	1155.7	1137.1	1105.3	1096.5	1089.7	1080.4	1079.9	1079.4	1080.4	1087.7	1092.6
25°	1195.8	1173.3	1130.7	1104.3	1081.3	1068.6	1070.1	1070.6	1071.6	1077.4	1085.3
27.5°	1239.3	1214.4	1154.2	1101.9	1060.3	1051.5	1049.1	1050.5	1054.0	1063.2	1072.5
30°	1282.8	1253.5	1175.7	1092.1	1033.9	1021.7	1013.8	1017.3	1028.0	1037.3	1047.6
32.5°	1322.5	1293.1	1192.8	1070.6	1000.2	981.1	970.8	975.2	986.0	989.4	1001.6
35°	1368.9	1335.7	1200.2	1036.3	963.5	934.1	920.4	914.1	919.5	916.0	926.8
37.5°	1420.8	1386.0	1199.2	991.4	920.4	886.7	867.6	843.7	832.4	820.7	828.0
40°	1497.5	1447.7	1187.5	937.1	867.1	836.3	802.1	761.5	736.1	713.1	714.5
42.5°	1602.2	1533.2	1166.0	877.4	807.0	778.1	731.7	684.2	644.1	606.0	602.5
45°	1758.2	1645.2	1139.1	813.8	741.9	713.6	663.2	609.9	564.4	515.5	509.6
47.5°	1983.2	1795.9	1113.6	741.4	673.5	647.5	602.0	552.7	498.9	451.4	446.0
50°	2292.3	2012.0	1090.1	671.0	606.0	586.4	550.2	499.8	445.5	407.4	405.0
52.5°	2685.5	2306.0	1080.4	603.0	542.9	535.5	506.7	459.7	408.4	376.1	373.7
55°	3136.9	2657.6	1080.4	538.0	487.6	490.1	470.0	426.5	382.0	353.1	350.2
57.5°	3597.6	3013.7	1060.8	477.8	440.7	450.9	438.2	400.1	360.0	330.1	325.2
60°	4022.1	3312.0	981.6	423.0	399.1	415.2	406.9	374.1	325.2	300.3	296.4
62.5°	4348.3	3480.2	829.0	379.5	364.8	383.4	379.0	339.9	318.9	308.6	305.2
65°	4511.7	3452.9	633.8	340.9	336.0	364.8	355.6	354.1	337.5	325.7	321.8
67.5°	4411.4	3217.1	459.7	312.5	319.4	347.7	383.4	389.3	358.5	335.5	331.6
70°	3971.8	2790.7	342.4	285.6	298.3	348.2	437.2	407.4	351.6	324.7	320.3
72.5°	3021.5	2081.0	265.6	257.3	270.9	350.7	461.2	399.1	332.1	359.0	356.0
75°	1727.9	1142.5	213.2	222.5	236.7	327.7	449.0	377.6	316.9	329.6	329.6
77.5°	658.8	439.2	176.1	188.3	190.2	286.1	429.4	376.1	301.8	294.4	268.5
80°	228.4	171.7	145.7	149.7	147.2	254.3	411.8	327.2	247.0	221.1	213.7
82.5°	93.4	85.6	115.4	110.5	104.7	197.6	332.6	267.5	202.0	178.5	176.6
85°	40.6	54.3	76.3	67.0	60.6	136.9	266.5	226.4	170.7	147.2	146.7
87.5°	8.3	20.5	32.3	30.3	31.3	91.5	189.3	160.9	120.8	90.5	70.9
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)