

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: STREETWORKS

Report Number: P961015

Luminaire Tested: **NVN-SB1D-827-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961015
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: STREETWORKS
Catalog Number: NVN-SB1D-827-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9054.9 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

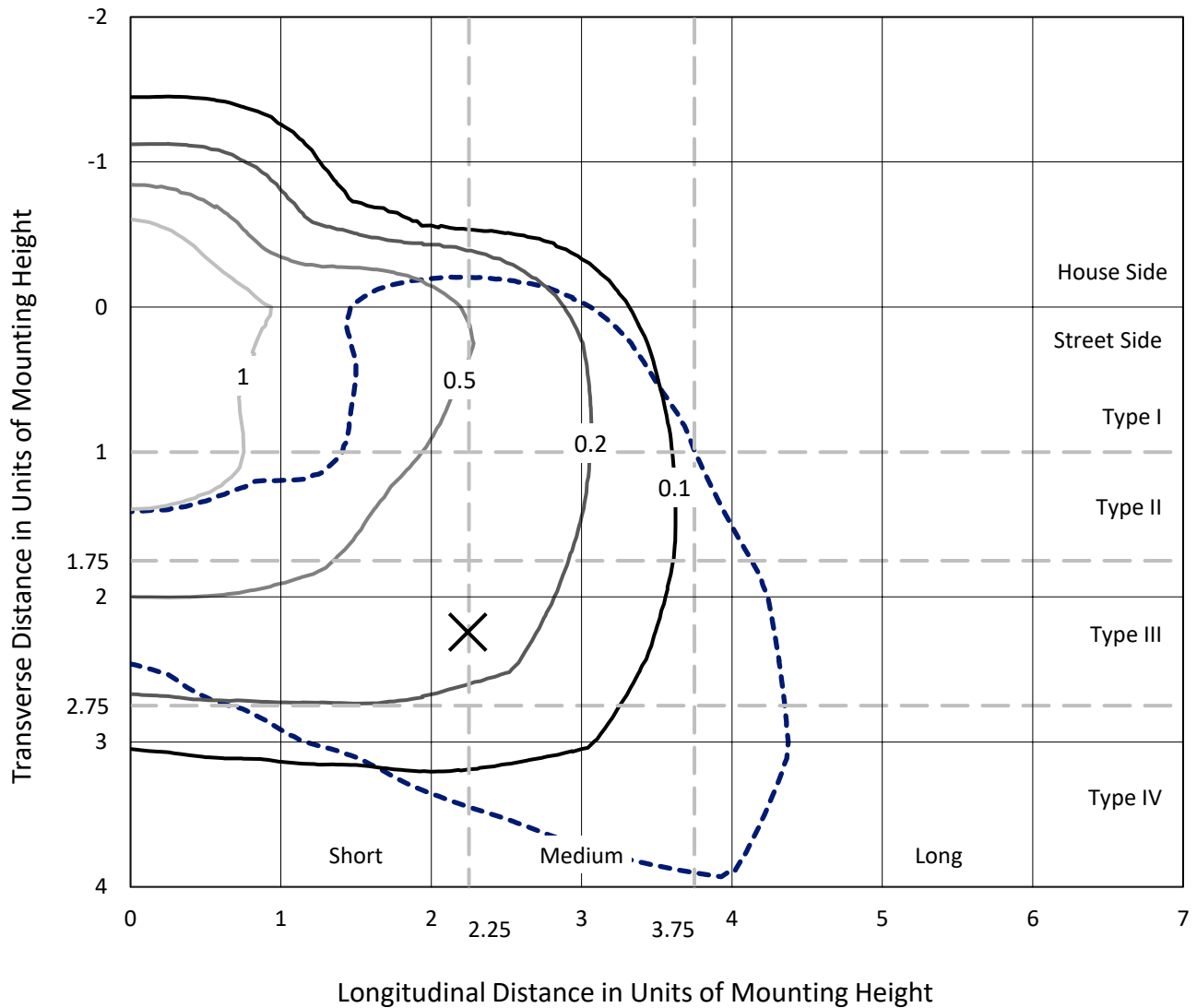
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

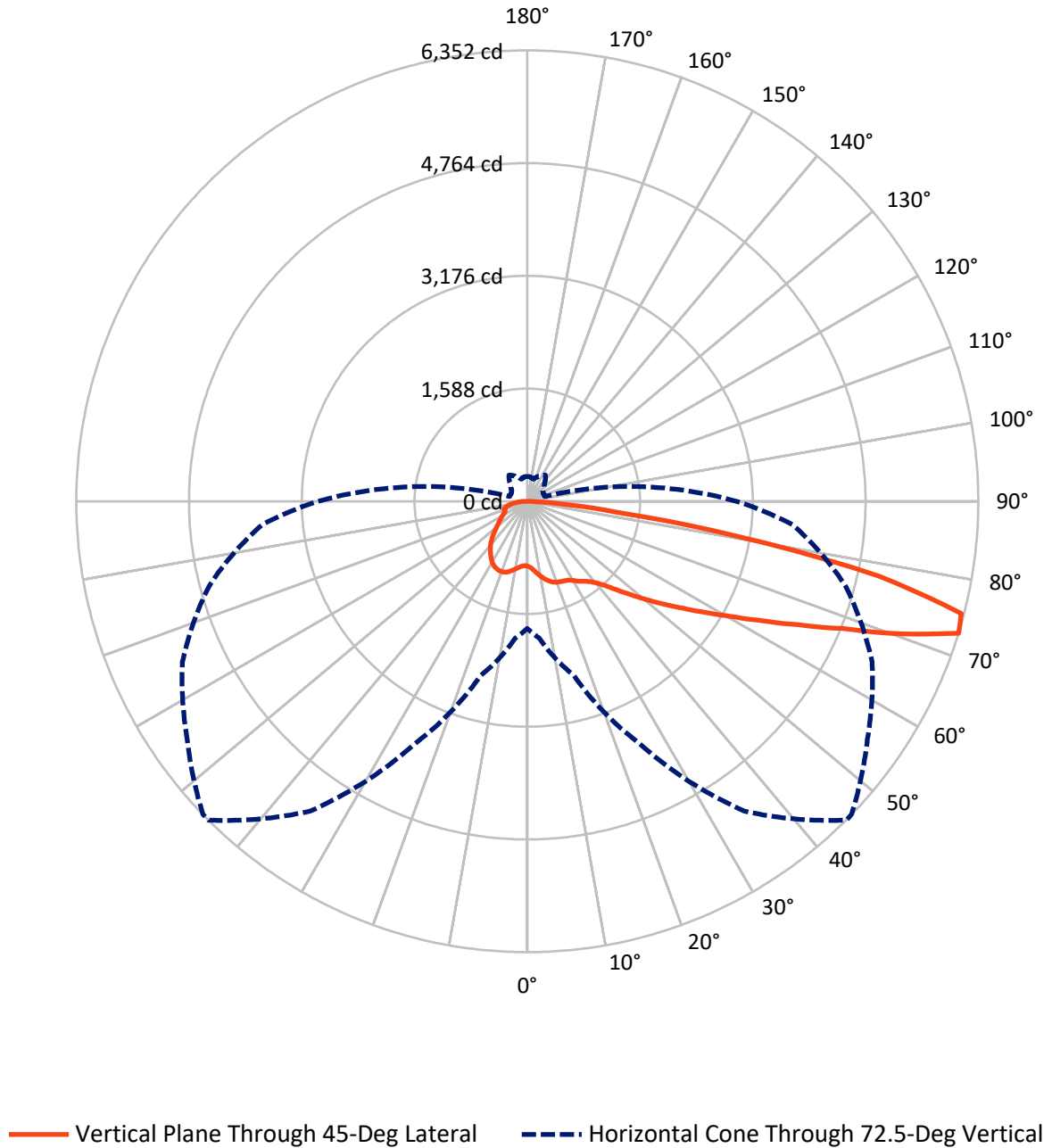
× Max cd
 - - - 1/2 Max cd



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



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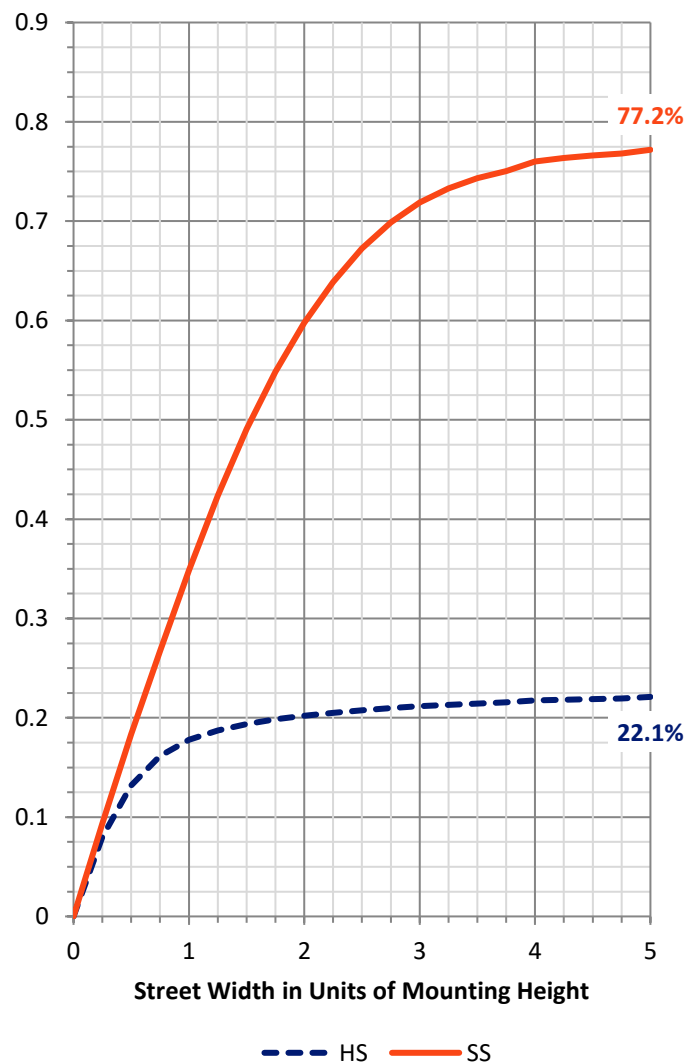
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2047.0	0.0	2047.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7007.9	0.0	7007.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	9054.9	0.0	9054.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	1.0
10°-20°	310.0	3.4
20°-30°	539.2	6.0
30°-40°	773.0	8.5
40°-50°	1088.4	12.0
50°-60°	1667.2	18.4
60°-70°	2415.2	26.7
70°-80°	1928.6	21.3
80°-90°	240.2	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°	9054.9	100.0
0°-180°	9054.9	100.0

Coefficient of Utilization



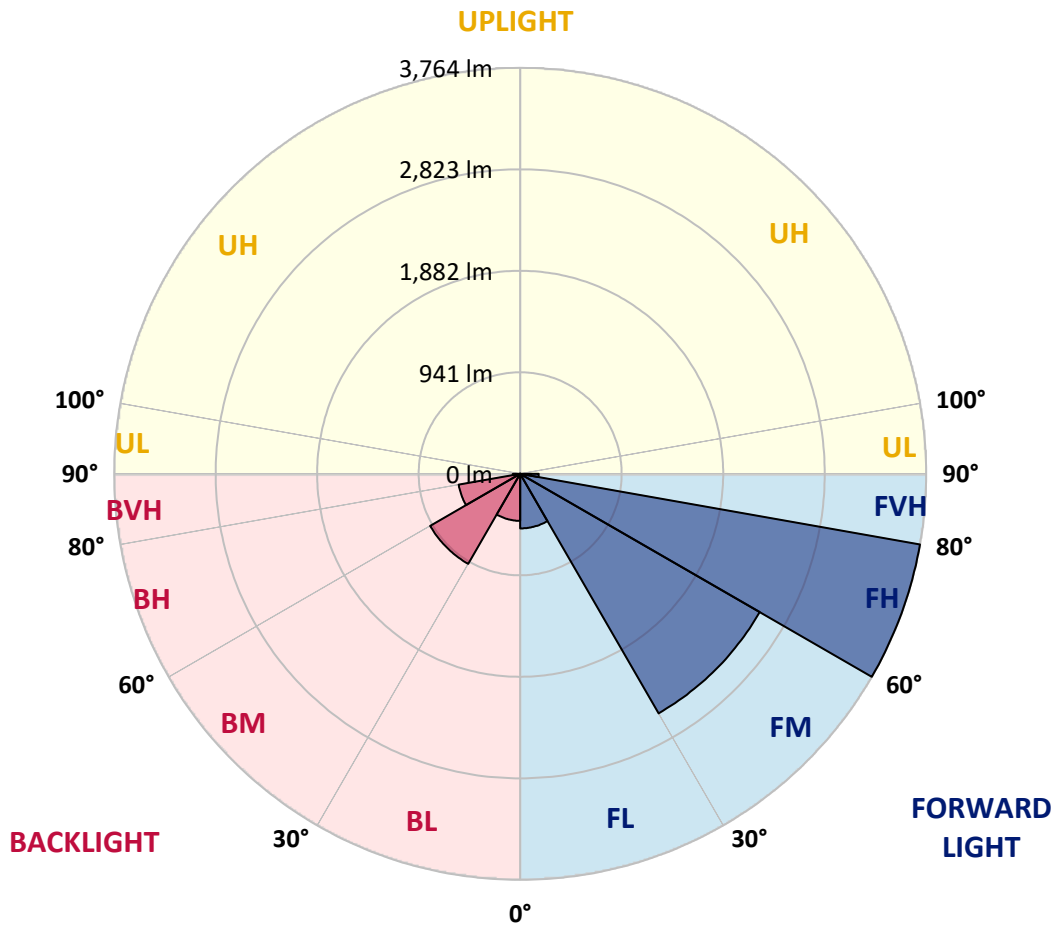
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	506.4	5.6			
FM (30°-60°)	2564.8	28.3			
FH (60°-80°)	3764.4	41.6			G2/5000
FVH (80°-90°)	172.3	1.9			G2/225
BL (0°-30°)	435.8	4.8	B1/500		
BM (30°-60°)	963.8	10.6	B1/1000		
BH (60°-80°)	579.4	6.4	B2/1000		G2/1000
BVH (80°-90°)	67.9	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°	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5
2.5°	949.3	955.4	949.7	944.4	942.1	935.9	935.4	931.6	929.2	922.5	920.7
5°	1015.6	1023.7	1014.1	1003.6	994.0	978.8	976.9	966.0	953.6	939.2	931.1
7.5°	1090.4	1097.6	1086.6	1070.8	1054.2	1028.9	1028.4	1008.4	988.8	964.5	950.7
10°	1155.8	1165.3	1150.6	1129.0	1108.0	1079.4	1076.1	1053.2	1028.4	996.9	975.9
12.5°	1213.5	1220.2	1205.8	1179.7	1155.3	1126.7	1122.4	1097.1	1069.5	1033.7	1007.0
15°	1259.3	1267.8	1248.8	1220.7	1194.8	1166.8	1163.0	1140.0	1112.3	1074.7	1040.4
17.5°	1289.3	1296.5	1276.9	1245.5	1220.7	1197.3	1194.4	1175.4	1151.0	1112.8	1076.1
20°	1300.8	1308.4	1287.9	1255.9	1233.1	1214.9	1213.5	1199.7	1183.0	1148.1	1110.9
22.5°	1312.2	1319.4	1292.6	1259.3	1239.2	1227.8	1227.3	1218.2	1211.6	1183.0	1146.7
25°	1358.5	1360.4	1324.6	1276.4	1247.8	1237.8	1237.4	1236.9	1239.7	1217.3	1185.3
27.5°	1398.6	1398.1	1367.6	1322.2	1277.9	1256.9	1256.4	1261.2	1270.3	1251.6	1225.4
30°	1457.2	1452.0	1415.7	1368.5	1328.0	1295.5	1292.6	1288.4	1295.5	1280.7	1265.5
32.5°	1581.8	1565.1	1506.3	1422.4	1369.5	1344.7	1340.8	1314.2	1317.0	1307.9	1300.3
35°	1760.1	1738.2	1660.0	1524.5	1421.0	1385.7	1383.7	1349.9	1344.2	1336.1	1339.0
37.5°	1972.4	1945.2	1854.1	1672.4	1509.7	1433.4	1430.5	1400.0	1376.7	1368.1	1384.3
40°	2185.6	2151.3	2075.9	1852.7	1640.4	1513.0	1504.0	1457.8	1431.0	1416.7	1451.0
42.5°	2392.7	2364.1	2299.6	2054.9	1801.6	1629.4	1609.4	1530.2	1510.2	1496.8	1558.8
45°	2575.8	2550.1	2502.8	2271.0	1990.5	1787.8	1768.2	1639.0	1632.8	1632.8	1722.4
47.5°	2724.7	2718.9	2668.8	2491.4	2213.3	1968.1	1934.3	1790.2	1806.9	1832.6	1954.8
50°	2889.7	2873.9	2820.5	2708.5	2475.2	2174.6	2147.0	1975.8	2038.2	2108.8	2290.6
52.5°	3041.4	3050.0	2990.3	2934.5	2770.9	2405.1	2356.4	2194.7	2329.7	2446.6	2684.1
55°	3197.4	3197.8	3181.1	3173.5	3080.9	2659.8	2606.4	2458.0	2672.7	2817.6	3143.0
57.5°	3343.8	3344.8	3369.6	3436.8	3440.6	2953.6	2893.1	2781.4	3053.8	3201.6	3616.2
60°	3474.4	3481.2	3548.9	3706.3	3756.8	3290.4	3233.2	3163.5	3447.8	3596.6	4113.6
62.5°	3518.4	3542.7	3693.4	3917.1	4069.2	3703.4	3647.2	3605.6	3861.8	4000.2	4529.6
65°	3444.0	3499.8	3791.2	4091.3	4390.8	4194.3	4138.4	4093.1	4292.1	4422.3	4871.1
67.5°	3261.2	3333.3	3785.5	4273.9	4781.0	4784.8	4732.8	4626.4	4753.3	4803.5	4982.3
70°	2780.0	2887.7	3452.1	4342.1	5228.9	5592.4	5542.3	5268.5	5213.7	4971.4	4669.4
72.5°	1791.2	1936.1	2541.9	3780.7	5328.6	6352.2	6349.4	5848.0	5359.1	4645.0	3744.9
75°	653.5	742.2	1181.0	2373.1	4472.9	6313.6	6332.2	5748.8	4892.1	3588.0	2333.0
77.5°	238.0	260.5	385.4	912.0	2750.9	5065.8	5104.4	4595.9	3482.1	1800.7	924.4
80°	124.9	137.4	197.5	353.9	1178.6	3008.5	3069.1	2731.3	1636.6	542.3	277.2
82.5°	69.2	74.9	110.7	192.2	530.9	1286.5	1322.8	1079.0	575.7	229.9	114.5
85°	37.2	39.6	52.0	105.0	259.5	446.0	456.0	322.5	229.4	135.0	55.4
87.5°	11.0	13.3	17.2	33.4	101.6	100.1	102.6	64.0	90.6	68.2	18.1
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°	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5	913.5
2.5°	917.8	916.4	911.1	908.7	905.8	905.4	907.7	908.3	908.7	909.2	911.1
5°	926.3	921.6	916.8	913.9	914.9	915.3	920.1	923.5	925.9	927.7	928.8
7.5°	943.0	939.2	931.1	930.6	932.0	936.3	942.6	950.2	954.5	957.9	958.8
10°	967.8	960.7	951.1	952.5	955.4	961.7	974.5	980.7	987.9	994.0	992.6
12.5°	993.1	986.9	975.9	976.9	981.6	992.6	1005.0	1012.7	1017.4	1022.2	1024.1
15°	1026.0	1015.1	1003.2	1003.2	1011.7	1023.7	1029.4	1035.6	1038.4	1043.7	1045.6
17.5°	1059.8	1045.6	1029.8	1028.9	1039.4	1045.1	1048.5	1049.4	1050.3	1056.1	1058.0
20°	1093.8	1078.0	1055.6	1053.7	1056.1	1055.1	1054.6	1053.7	1055.1	1062.3	1065.2
22.5°	1127.2	1109.0	1078.0	1069.5	1062.7	1053.7	1053.2	1052.8	1053.7	1060.9	1065.6
25°	1166.2	1144.3	1102.8	1077.1	1054.6	1042.2	1043.7	1044.2	1045.1	1050.8	1058.5
27.5°	1208.7	1184.4	1125.8	1074.7	1034.1	1025.5	1023.2	1024.6	1028.0	1037.0	1046.1
30°	1251.2	1222.5	1146.7	1065.2	1008.4	996.5	988.8	992.2	1002.7	1011.7	1021.7
32.5°	1289.9	1261.2	1163.4	1044.2	975.5	956.8	946.9	951.1	961.7	964.9	976.9
35°	1335.2	1302.7	1170.6	1010.8	939.7	911.1	897.7	891.5	896.8	893.4	903.9
37.5°	1385.7	1351.9	1169.6	966.9	897.7	864.8	846.2	822.9	811.9	800.4	807.6
40°	1460.6	1411.9	1158.1	913.9	845.7	815.7	782.3	742.7	717.9	695.5	696.9
42.5°	1562.6	1495.4	1137.1	855.8	787.1	758.9	713.6	667.3	628.2	591.0	587.6
45°	1714.8	1604.6	1110.9	793.8	723.6	696.0	646.8	594.8	550.4	502.8	497.0
47.5°	1934.3	1751.5	1086.1	723.1	656.8	631.5	587.2	539.0	486.6	440.2	435.0
50°	2235.7	1962.4	1063.2	654.5	591.0	571.9	536.6	487.5	434.5	397.4	394.9
52.5°	2619.2	2249.1	1053.7	588.1	529.5	522.3	494.2	448.3	398.3	366.8	364.4
55°	3059.5	2592.0	1053.7	524.7	475.6	478.0	458.4	415.9	372.6	344.4	341.5
57.5°	3508.8	2939.3	1034.6	466.1	429.8	439.8	427.4	390.2	351.1	322.0	317.2
60°	3922.9	3230.3	957.4	412.6	389.2	405.0	396.9	364.9	317.2	292.8	289.0
62.5°	4241.0	3394.4	808.5	370.1	355.9	373.9	369.7	331.5	311.0	300.9	297.7
65°	4400.3	3367.6	618.2	332.5	327.7	355.9	346.8	345.3	329.1	317.6	313.9
67.5°	4302.5	3137.7	448.3	304.8	311.5	339.2	373.9	379.7	349.6	327.2	323.4
70°	3873.7	2721.8	333.9	278.6	291.0	339.6	426.4	397.4	343.0	316.7	312.4
72.5°	2946.9	2029.6	259.0	250.9	264.2	342.0	449.8	389.2	323.9	350.1	347.3
75°	1685.2	1114.3	208.0	217.0	230.8	319.6	437.9	368.3	309.1	321.5	321.5
77.5°	642.5	428.3	171.7	183.7	185.5	279.0	418.8	366.8	294.3	287.2	261.9
80°	222.7	167.4	142.2	146.0	143.6	248.0	401.6	319.1	240.9	215.6	208.5
82.5°	91.1	83.4	112.5	107.8	102.1	192.7	324.3	261.0	197.0	174.1	172.2
85°	39.6	53.0	74.4	65.4	59.1	133.6	259.9	220.9	166.5	143.6	143.1
87.5°	8.1	20.0	31.5	29.6	30.5	89.2	184.6	156.9	117.8	88.3	69.2
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)