

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: P961843

Luminaire Tested: **NVN-SB2B-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2B-722-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9662.7 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

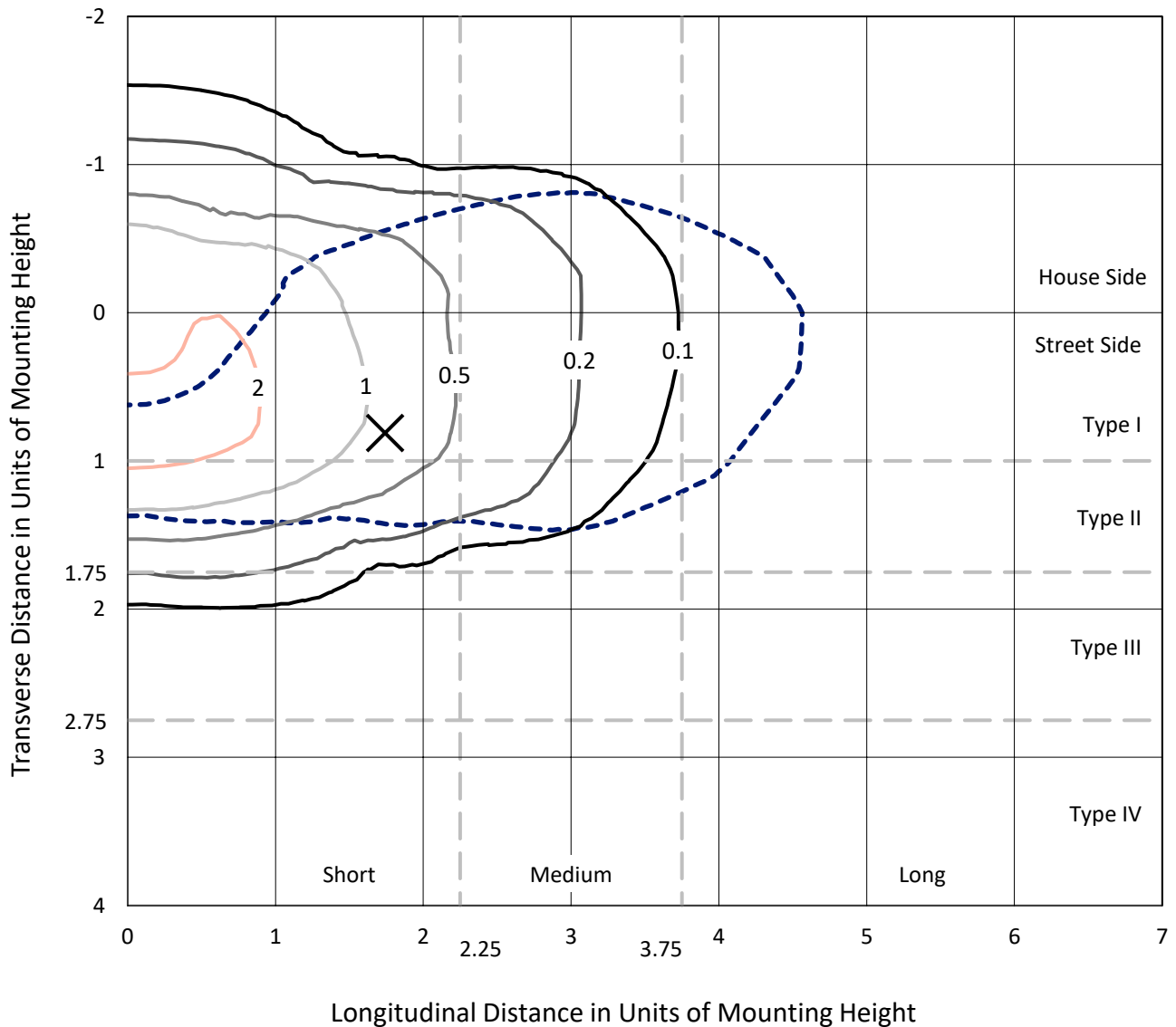
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

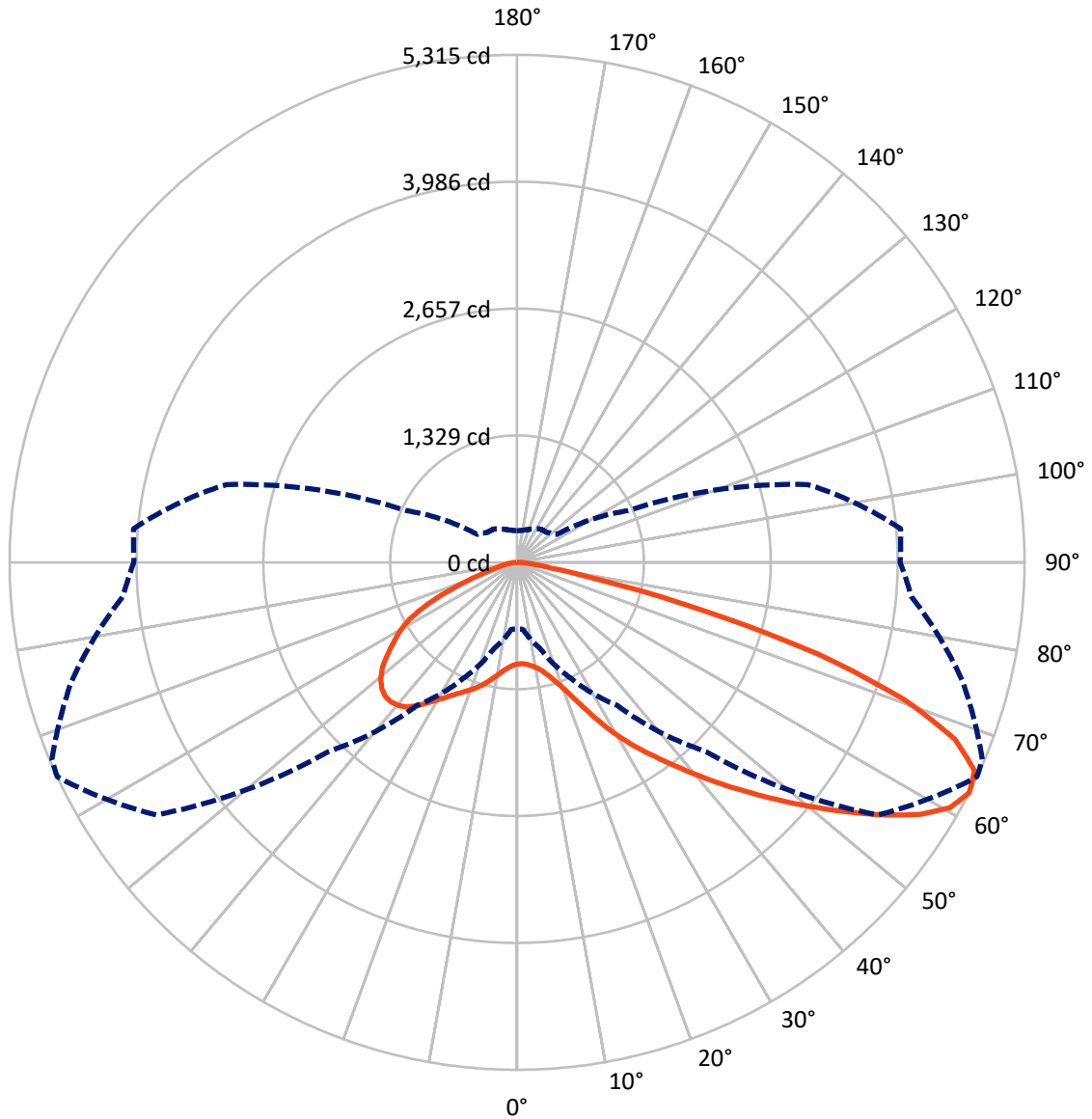
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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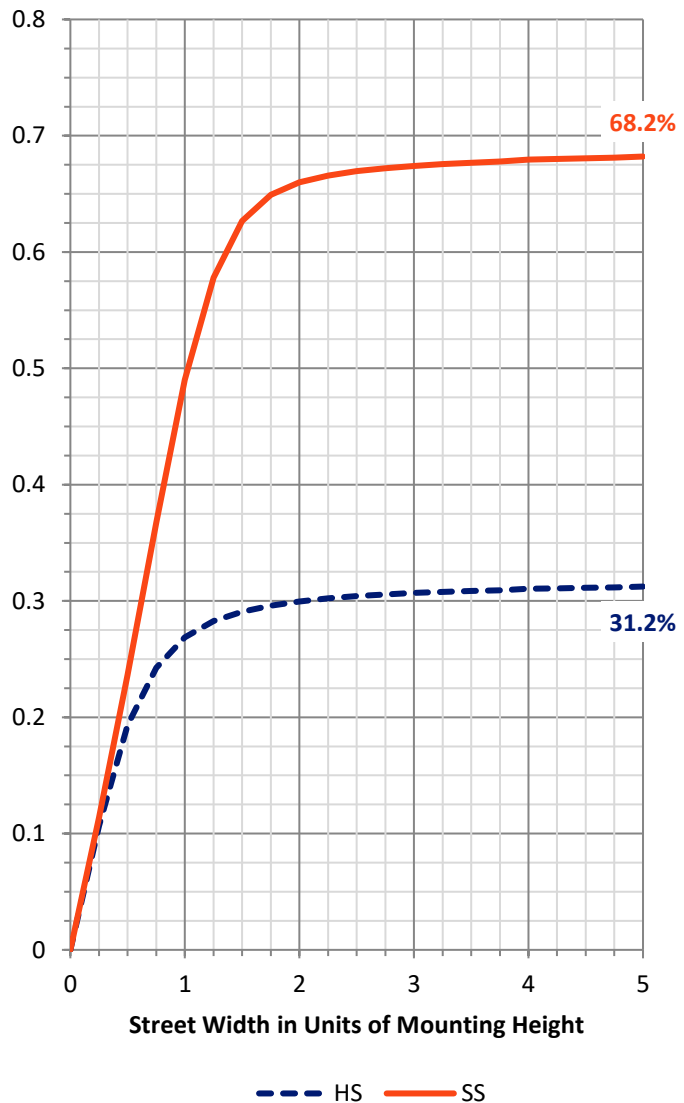
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3049.1	0.0	3049.1
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	6613.6	0.0	6613.6
	% Fixture	68.4	0.0	68.4
Total	Lumens	9662.7	0.0	9662.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.2	1.1
10°-20°	360.0	3.7
20°-30°	729.9	7.6
30°-40°	1263.1	13.1
40°-50°	1911.5	19.8
50°-60°	2241.1	23.2
60°-70°	1878.9	19.4
70°-80°	1037.3	10.7
80°-90°	134.7	1.4
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°	9662.7	100.0
0°-180°	9662.7	100.0

Coefficient of Utilization



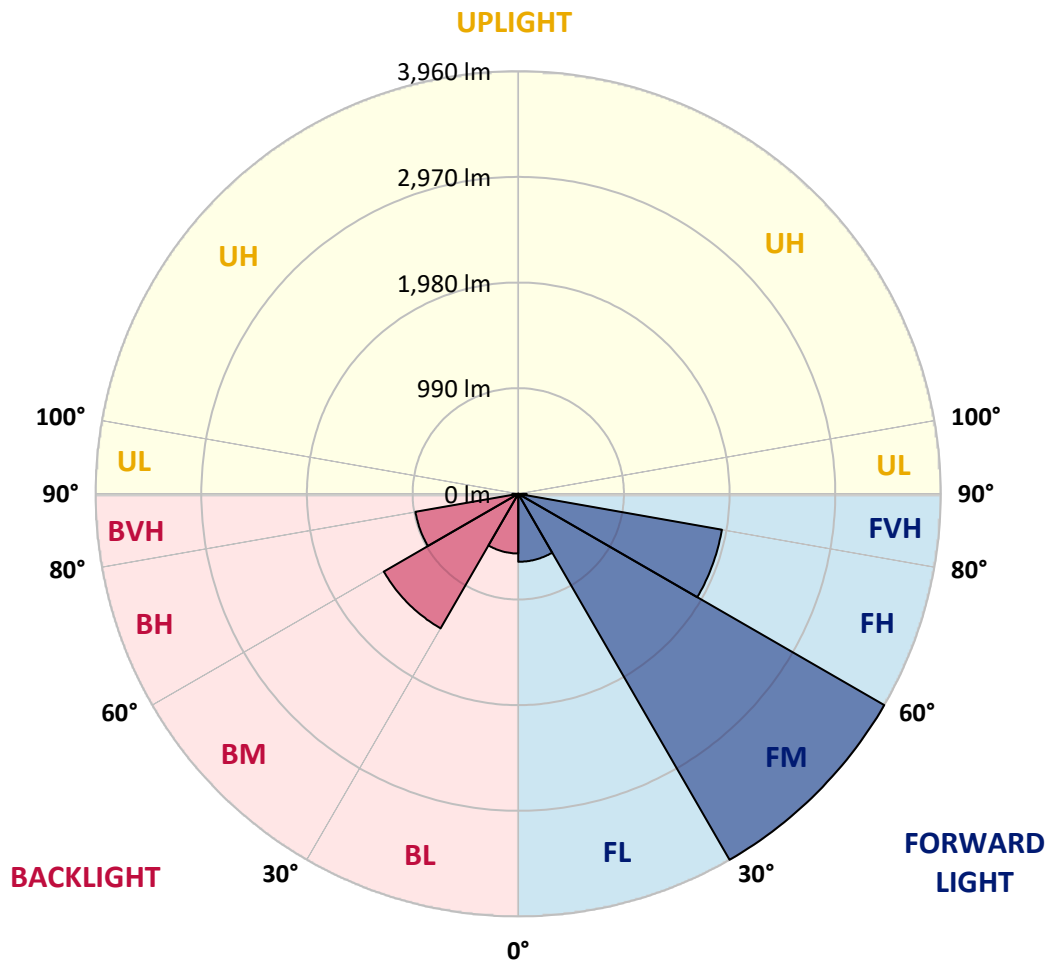
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.9	6.6			
FM (30°-60°)	3960.1	41.0			
FH (60°-80°)	1938.1	20.1			G2/5000
FVH (80°-90°)	78.5	0.8			G1/100
BL (0°-30°)	559.2	5.8	B2/1000		
BM (30°-60°)	1455.6	15.1	B2/2500		
BH (60°-80°)	978.1	10.1	B2/1000		G2/1000
BVH (80°-90°)	56.2	0.6			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 II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8
2.5°	1057.8	1054.7	1057.3	1057.3	1058.3	1057.8	1061.3	1062.3	1063.7	1066.8	1066.8
5°	1047.2	1046.7	1051.2	1055.2	1059.2	1062.8	1067.3	1073.8	1074.8	1078.3	1082.8
7.5°	1043.8	1040.7	1047.8	1052.8	1062.3	1070.8	1082.8	1093.9	1098.4	1099.9	1108.4
10°	1070.8	1065.8	1072.4	1075.3	1083.3	1091.8	1105.9	1123.4	1128.4	1134.5	1144.0
12.5°	1116.9	1111.4	1120.9	1125.4	1132.9	1140.5	1150.0	1167.1	1169.5	1180.6	1189.6
15°	1180.1	1173.5	1179.6	1185.1	1197.6	1204.7	1214.2	1230.7	1230.7	1239.2	1245.8
17.5°	1265.8	1257.3	1261.8	1263.8	1271.8	1282.4	1298.4	1312.9	1320.4	1317.4	1308.4
20°	1393.7	1383.1	1383.1	1373.1	1370.1	1378.6	1399.6	1419.7	1427.7	1412.1	1390.1
22.5°	1585.7	1570.6	1562.1	1528.0	1514.4	1515.5	1536.5	1561.1	1567.6	1540.1	1490.4
25°	1829.8	1806.3	1794.7	1744.6	1714.0	1687.5	1704.0	1735.5	1744.6	1710.5	1630.3
27.5°	2073.9	2075.4	2064.4	2004.3	1953.6	1905.0	1896.5	1929.6	1939.1	1900.5	1801.2
30°	2416.3	2380.8	2359.7	2287.5	2215.3	2147.1	2112.0	2125.5	2128.1	2082.0	1966.7
32.5°	2711.6	2702.6	2657.4	2594.3	2501.5	2394.8	2336.1	2314.6	2310.6	2244.9	2108.0
35°	3047.9	3042.9	2995.4	2920.1	2819.9	2671.5	2565.7	2504.1	2499.1	2406.8	2247.9
37.5°	3389.9	3389.9	3343.2	3261.0	3157.3	2971.8	2810.9	2713.1	2697.1	2576.7	2390.3
40°	3662.5	3646.0	3654.5	3620.0	3501.2	3304.2	3083.1	2941.2	2919.6	2775.3	2541.7
42.5°	3817.5	3812.0	3863.1	3901.7	3853.1	3695.6	3382.8	3188.4	3158.2	2993.8	2716.1
45°	3852.1	3846.1	3937.3	4078.7	4146.8	4082.2	3708.7	3448.5	3411.9	3222.4	2903.1
47.5°	3772.4	3760.3	3894.2	4117.2	4335.9	4449.6	4061.7	3730.8	3677.6	3445.0	3095.1
50°	3532.8	3521.2	3723.7	4020.0	4399.5	4699.3	4444.6	4030.0	3948.8	3683.6	3289.1
52.5°	3011.9	3017.4	3334.7	3741.8	4315.8	4854.7	4774.4	4345.4	4247.6	3927.8	3471.1
55°	2346.1	2358.2	2748.2	3196.4	3980.9	4831.1	4999.5	4670.2	4572.9	4157.4	3659.0
57.5°	1679.9	1733.1	2098.5	2542.1	3337.7	4457.6	5048.7	4979.0	4884.7	4408.0	3843.0
60°	1088.9	1098.4	1474.4	1921.6	2541.7	3793.9	4948.9	5213.2	5139.5	4663.6	3997.0
62.5°	697.8	704.4	933.5	1344.0	1829.3	2806.9	4613.1	5314.9	5292.4	4832.7	4144.8
65°	512.8	507.8	627.1	888.4	1232.3	1731.0	3960.9	5265.7	5310.4	4938.4	4267.2
67.5°	428.1	421.1	479.8	615.1	907.8	983.1	2930.7	4946.4	5109.8	4926.4	4356.9
70°	390.0	384.0	419.6	456.7	708.4	658.3	1477.3	4300.3	4551.9	4789.5	4342.3
72.5°	330.4	319.8	368.5	405.6	550.9	504.8	610.6	3303.2	3609.9	4350.9	4137.8
75°	256.1	249.2	290.8	356.9	414.1	394.0	386.0	2005.7	2340.6	3364.8	3620.0
77.5°	203.1	193.5	231.6	278.2	372.5	297.2	281.3	863.8	1195.7	2148.1	2708.6
80°	152.9	144.4	176.0	220.1	286.3	224.1	181.9	352.4	450.7	1088.3	1362.0
82.5°	108.8	101.3	122.8	161.4	192.5	201.0	111.8	197.5	222.1	419.6	304.3
85°	69.7	65.2	82.2	101.3	122.3	129.4	68.2	103.3	113.3	172.9	126.8
87.5°	38.1	31.1	44.1	47.2	56.7	51.7	32.6	37.6	40.6	62.6	53.6
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°	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8	1064.8
2.5°	1068.8	1070.3	1075.3	1076.9	1080.4	1084.9	1087.8	1090.8	1090.8	1093.9	1093.9
5°	1083.3	1086.8	1097.4	1102.9	1111.9	1120.9	1126.5	1132.9	1136.9	1139.0	1140.0
7.5°	1111.4	1116.9	1132.0	1141.4	1157.0	1169.5	1178.0	1187.2	1189.1	1194.6	1192.6
10°	1149.5	1156.0	1173.1	1191.2	1209.7	1225.2	1233.2	1239.7	1242.3	1243.2	1240.8
12.5°	1193.1	1202.6	1224.7	1246.8	1266.3	1279.8	1281.9	1280.3	1273.4	1267.3	1267.3
15°	1246.8	1255.3	1279.8	1303.9	1323.0	1325.4	1312.9	1304.9	1296.4	1294.9	1294.9
17.5°	1311.0	1315.5	1338.0	1361.6	1363.0	1354.5	1336.0	1328.5	1320.4	1315.0	1315.5
20°	1385.6	1384.2	1400.1	1410.2	1399.6	1373.6	1345.5	1333.0	1324.9	1318.5	1319.0
22.5°	1474.9	1463.3	1461.3	1458.8	1430.7	1376.1	1338.0	1321.9	1309.4	1300.4	1303.4
25°	1604.7	1560.6	1530.0	1513.0	1449.8	1362.5	1313.9	1278.4	1254.8	1239.2	1245.3
27.5°	1767.1	1692.9	1615.7	1574.1	1449.8	1335.0	1255.8	1198.1	1159.6	1143.5	1151.5
30°	1922.0	1844.3	1730.5	1647.8	1446.3	1289.9	1162.0	1081.8	1036.7	1020.7	1030.2
32.5°	2054.4	1969.6	1852.4	1728.6	1437.8	1216.7	1045.7	957.0	913.4	894.3	903.8
35°	2177.2	2087.0	1974.7	1817.2	1415.2	1109.4	917.9	850.2	801.6	771.0	781.0
37.5°	2303.1	2195.8	2090.5	1897.5	1374.6	984.1	819.7	762.0	704.9	663.7	674.8
40°	2439.9	2311.6	2214.3	1945.0	1307.9	864.8	743.4	690.8	630.2	586.5	595.0
42.5°	2599.8	2450.4	2352.2	1969.6	1216.7	780.0	693.8	642.2	585.1	549.4	556.5
45°	2766.8	2603.3	2477.9	1969.1	1114.9	740.5	677.7	626.7	563.4	526.3	532.4
47.5°	2941.6	2763.2	2586.8	1937.0	1026.6	746.0	668.7	593.1	523.4	487.3	492.3
50°	3117.1	2938.2	2692.1	1876.9	989.1	733.9	635.2	545.9	463.7	431.1	433.2
52.5°	3291.1	3124.2	2782.8	1791.2	951.0	689.3	592.0	484.7	439.1	416.6	416.6
55°	3466.0	3308.2	2881.6	1666.3	855.8	637.1	519.9	461.7	419.6	399.0	397.1
57.5°	3641.5	3520.7	2975.3	1541.5	735.9	573.0	480.2	433.7	400.1	382.5	379.5
60°	3824.0	3763.8	3072.0	1426.7	617.7	490.8	451.2	411.0	377.0	357.4	355.9
62.5°	4012.0	4031.5	3147.8	1278.9	508.8	440.6	425.1	384.0	351.0	332.4	331.9
65°	4201.5	4289.7	3197.4	1073.8	412.6	393.0	397.1	354.4	320.8	304.8	304.3
67.5°	4344.4	4475.7	3183.3	812.6	338.4	347.9	361.9	323.4	291.7	279.2	279.7
70°	4360.5	4453.6	3045.0	556.5	283.2	303.8	322.9	292.7	260.1	251.1	251.6
72.5°	4146.8	4152.9	2659.5	363.5	239.6	266.7	281.8	261.7	230.1	221.1	220.6
75°	3586.9	3434.5	1952.6	239.6	200.5	229.1	243.1	229.1	198.5	200.5	193.5
77.5°	2717.6	2432.3	1185.6	170.5	167.5	192.5	211.6	201.5	175.5	197.0	173.4
80°	1400.1	1315.9	528.9	127.3	132.3	153.9	173.9	160.9	138.9	132.3	120.8
82.5°	320.8	373.0	208.6	91.2	95.7	110.8	132.8	120.8	99.7	84.3	83.2
85°	112.3	122.8	92.2	57.2	56.2	69.2	90.2	80.7	67.6	54.1	57.2
87.5°	35.6	46.6	34.5	23.1	24.1	31.1	41.6	38.1	31.6	20.6	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)