

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: P961533

Luminaire Tested: **NVN-SB2A-827-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961533
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-SB2A-827-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 80 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8102.6 lumens
Efficiency: N/A
Efficacy: 141.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

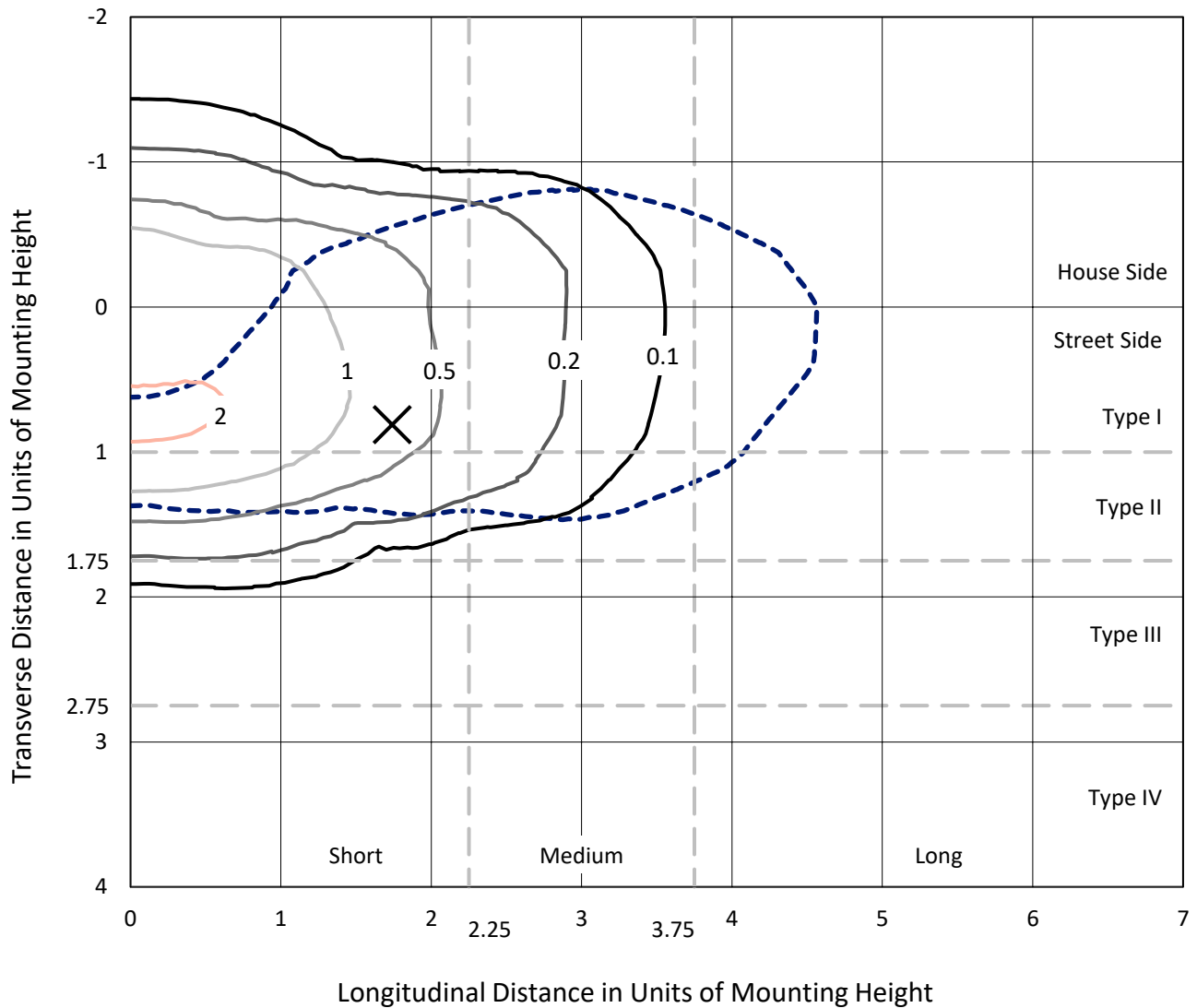
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

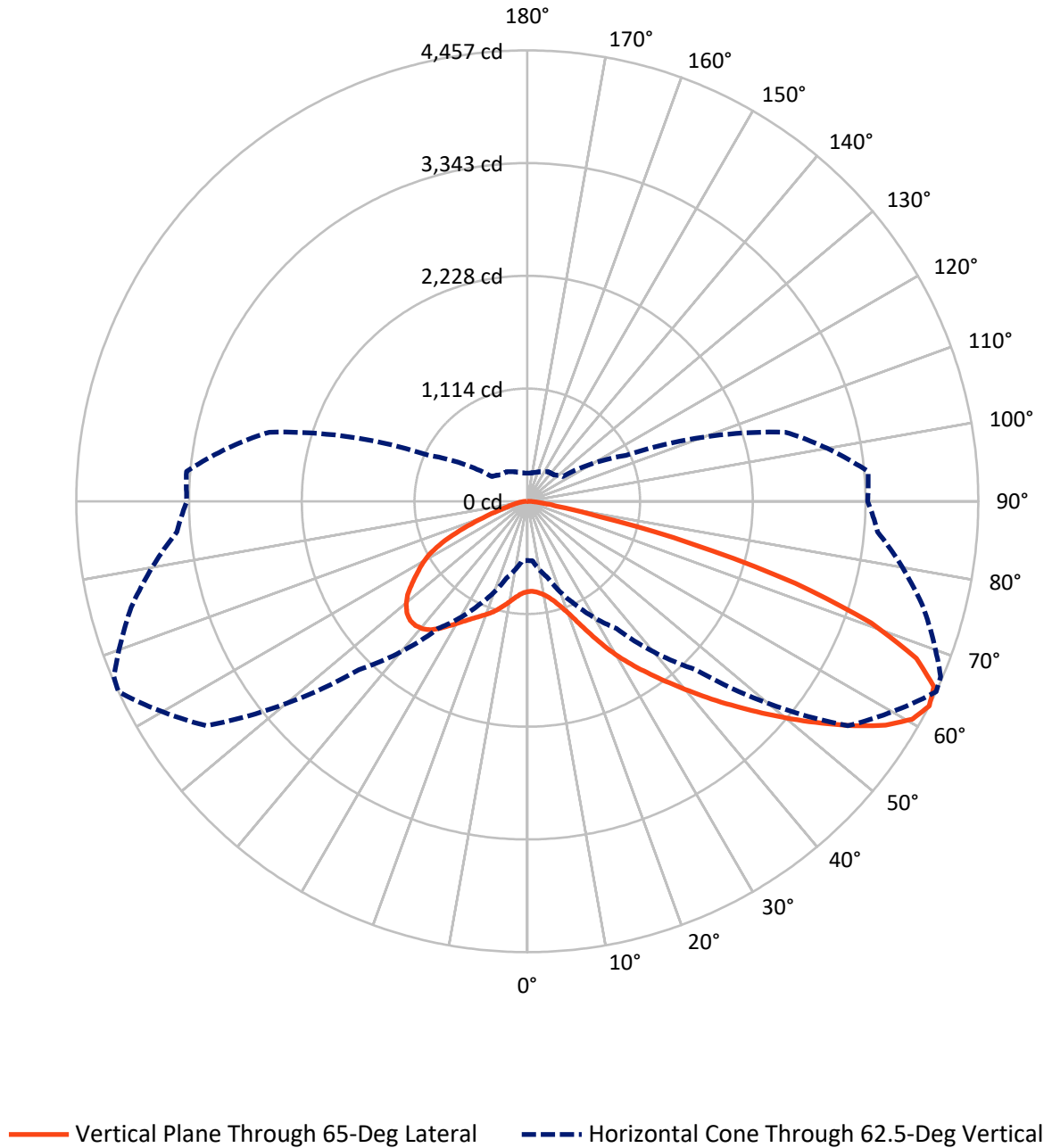
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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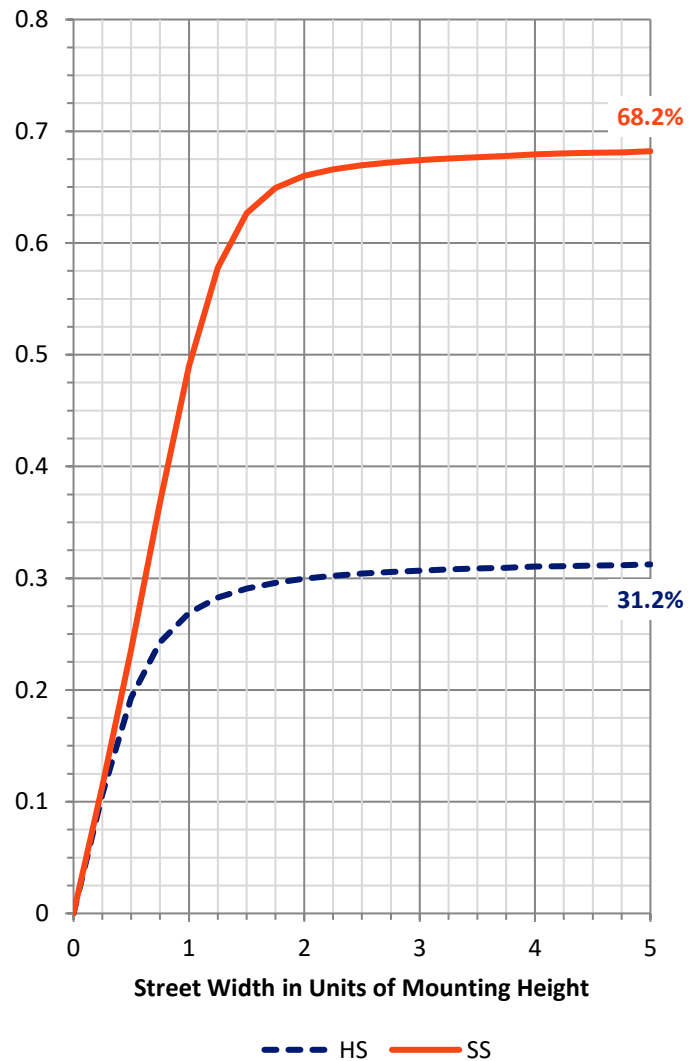
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2556.8	0.0	2556.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5545.8	0.0	5545.8
	% Fixture	68.4	0.0	68.4
Total	Lumens	8102.6	0.0	8102.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.1
10°-20°	301.9	3.7
20°-30°	612.1	7.6
30°-40°	1059.2	13.1
40°-50°	1602.9	19.8
50°-60°	1879.3	23.2
60°-70°	1575.5	19.4
70°-80°	869.8	10.7
80°-90°	113.0	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°	8102.6	100.0
0°-180°	8102.6	100.0

Coefficient of Utilization



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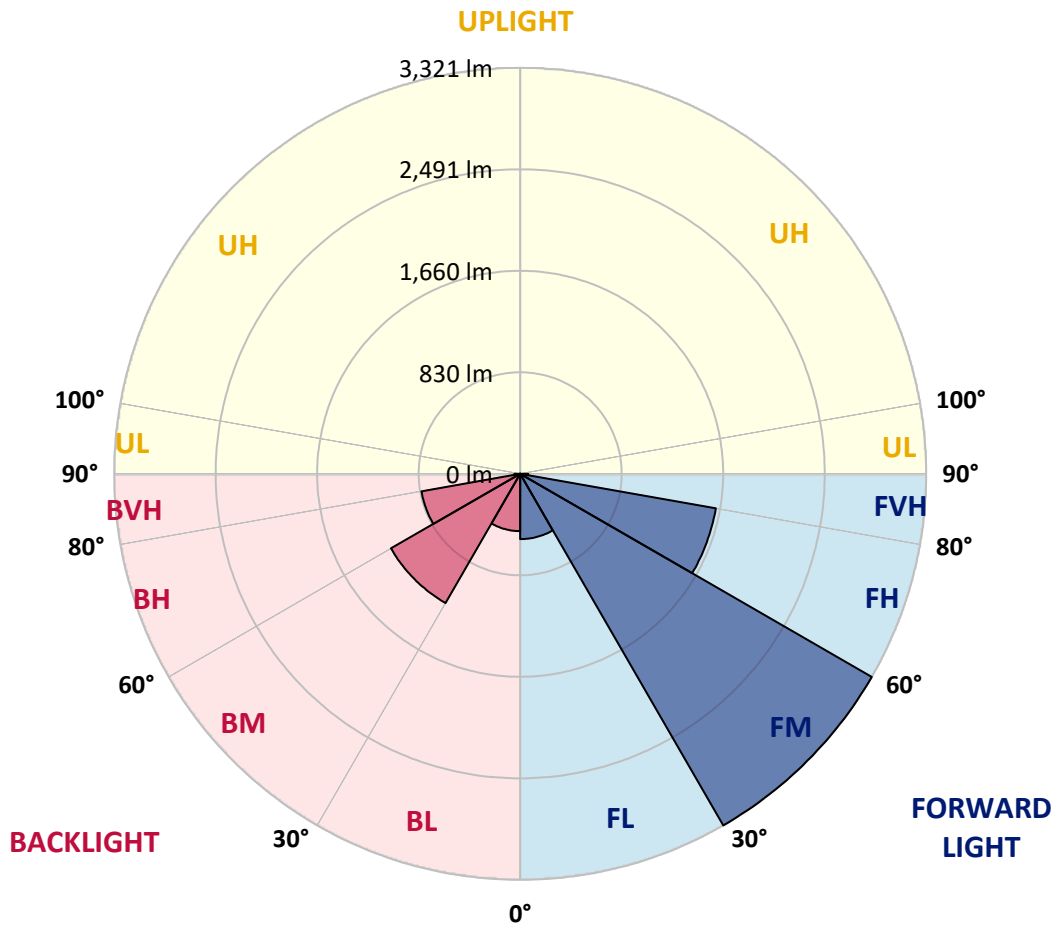
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	534.1	6.6			
FM (30°-60°)	3320.7	41.0			
FH (60°-80°)	1625.2	20.1			G1/1800
FVH (80°-90°)	65.9	0.8			G1/100
BL (0°-30°)	468.9	5.8	B1/500		
BM (30°-60°)	1220.6	15.1	B2/2500		
BH (60°-80°)	820.2	10.1	B2/1000		G2/1000
BVH (80°-90°)	47.1	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°	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9
2.5°	887.0	884.5	886.5	886.5	887.4	887.0	889.9	890.7	892.1	894.5	894.5
5°	878.1	877.7	881.5	884.9	888.3	891.2	894.9	900.5	901.3	904.3	908.0
7.5°	875.2	872.7	878.6	882.8	890.7	897.9	908.0	917.3	921.1	922.3	929.5
10°	897.9	893.7	899.1	901.7	908.5	915.5	927.3	942.1	946.3	951.3	959.3
12.5°	936.5	931.9	939.9	943.7	950.1	956.3	964.3	978.7	980.7	989.9	997.5
15°	989.5	984.1	989.1	993.7	1004.3	1010.1	1018.1	1032.0	1032.0	1039.1	1044.7
17.5°	1061.5	1054.3	1058.1	1059.7	1066.5	1075.3	1088.8	1101.0	1107.3	1104.7	1097.2
20°	1168.6	1159.8	1159.8	1151.4	1148.9	1156.0	1173.7	1190.5	1197.2	1184.2	1165.7
22.5°	1329.6	1317.0	1309.8	1281.2	1270.0	1270.8	1288.4	1309.0	1314.5	1291.4	1249.8
25°	1534.3	1514.6	1504.9	1462.9	1437.3	1415.0	1428.8	1455.3	1462.9	1434.3	1367.0
27.5°	1739.1	1740.3	1731.1	1680.7	1638.2	1597.5	1590.3	1618.1	1626.0	1593.7	1510.4
30°	2026.2	1996.4	1978.7	1918.2	1857.6	1800.4	1771.0	1782.4	1784.5	1745.8	1649.1
32.5°	2273.8	2266.3	2228.5	2175.5	2097.7	2008.1	1959.0	1940.8	1937.5	1882.4	1767.7
35°	2555.8	2551.6	2511.8	2448.7	2364.6	2240.1	2151.5	2099.8	2095.6	2018.2	1885.0
37.5°	2842.5	2842.5	2803.5	2734.5	2647.5	2492.0	2357.0	2275.1	2261.7	2160.7	2004.4
40°	3071.2	3057.4	3064.5	3035.5	2935.9	2770.7	2585.3	2466.4	2448.2	2327.2	2131.3
42.5°	3201.2	3196.6	3239.4	3271.8	3231.0	3099.0	2836.7	2673.6	2648.4	2510.4	2277.5
45°	3230.2	3225.1	3301.6	3420.1	3477.3	3423.1	3110.0	2891.7	2861.1	2702.2	2434.4
47.5°	3163.4	3153.2	3265.4	3452.5	3635.8	3731.2	3405.9	3128.4	3083.8	2888.9	2595.4
50°	2962.4	2952.7	3122.6	3371.0	3689.2	3940.6	3727.0	3379.4	3311.3	3088.9	2758.1
52.5°	2525.6	2530.2	2796.3	3137.6	3619.0	4070.9	4003.6	3643.8	3561.9	3293.6	2910.7
55°	1967.4	1977.4	2304.5	2680.3	3338.2	4051.1	4192.4	3916.2	3834.6	3486.1	3068.3
57.5°	1408.7	1453.2	1759.7	2131.7	2798.9	3738.0	4233.6	4175.1	4096.1	3696.4	3222.6
60°	913.1	921.1	1236.4	1611.3	2131.3	3181.4	4149.9	4371.4	4309.7	3910.8	3351.6
62.5°	585.2	590.6	782.7	1127.0	1533.9	2353.7	3868.2	4456.8	4437.8	4052.4	3475.7
65°	430.1	425.9	525.9	744.9	1033.3	1451.5	3321.4	4415.6	4453.0	4141.1	3578.2
67.5°	359.0	353.1	402.3	515.8	761.3	824.3	2457.5	4147.9	4284.9	4131.1	3653.5
70°	327.1	322.1	351.9	382.9	594.0	552.0	1238.8	3606.0	3817.0	4016.3	3641.3
72.5°	277.1	268.2	308.9	340.1	462.0	423.3	512.0	2769.9	3027.1	3648.4	3469.7
75°	214.8	208.9	243.8	299.3	347.3	330.5	323.7	1681.9	1962.8	2821.5	3035.5
77.5°	170.3	162.3	194.2	233.3	312.3	249.3	235.9	724.3	1002.6	1801.3	2271.3
80°	128.2	121.1	147.6	184.5	240.1	187.9	152.6	295.5	377.9	912.7	1142.2
82.5°	91.2	84.9	103.0	135.4	161.4	168.6	93.8	165.6	186.2	351.9	255.1
85°	58.4	54.6	69.0	84.9	102.6	108.4	57.2	86.6	95.0	145.0	106.4
87.5°	32.0	26.0	37.0	39.6	47.5	43.3	27.4	31.6	34.0	52.6	45.0
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°	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9	892.9
2.5°	896.3	897.5	901.7	902.9	905.9	909.7	912.2	914.7	914.7	917.3	917.3
5°	908.5	911.3	920.2	924.9	932.3	939.9	944.5	950.1	953.5	955.1	955.9
7.5°	931.9	936.5	949.3	957.1	970.3	980.7	987.9	995.5	997.1	1001.7	1000.1
10°	963.9	969.3	983.7	998.8	1014.3	1027.4	1034.1	1039.6	1041.7	1042.5	1040.4
12.5°	1000.5	1008.5	1026.9	1045.5	1061.9	1073.2	1074.9	1073.6	1067.7	1062.7	1062.7
15°	1045.5	1052.6	1073.2	1093.4	1109.4	1111.5	1101.0	1094.2	1087.1	1085.8	1085.8
17.5°	1099.3	1103.1	1122.0	1141.7	1143.0	1135.8	1120.3	1114.0	1107.3	1102.6	1103.1
20°	1161.9	1160.6	1174.1	1182.5	1173.7	1151.8	1128.3	1117.8	1111.0	1105.6	1106.0
22.5°	1236.8	1227.0	1225.4	1223.3	1199.8	1153.9	1122.0	1108.5	1098.0	1090.5	1093.0
25°	1345.6	1308.6	1283.0	1268.6	1215.8	1142.6	1101.8	1071.9	1052.2	1039.1	1044.2
27.5°	1481.8	1419.6	1354.8	1320.0	1215.8	1119.5	1053.1	1004.7	972.3	958.9	965.6
30°	1611.7	1546.5	1451.1	1381.8	1212.8	1081.6	974.5	907.1	869.3	855.9	863.9
32.5°	1722.7	1651.7	1553.3	1449.5	1205.6	1020.3	876.9	802.5	765.9	750.0	757.9
35°	1825.7	1750.0	1655.9	1523.9	1186.7	930.3	769.7	713.0	672.2	646.6	655.0
37.5°	1931.2	1841.2	1753.0	1591.1	1152.7	825.2	687.3	639.0	591.0	556.6	565.8
40°	2046.0	1938.4	1856.8	1631.1	1096.8	725.2	623.4	579.2	528.4	491.8	499.0
42.5°	2180.1	2054.8	1972.4	1651.7	1020.3	654.1	581.8	538.5	490.6	460.7	466.6
45°	2320.1	2183.0	2077.9	1651.3	934.9	620.8	568.4	525.5	472.5	441.4	446.4
47.5°	2466.8	2317.1	2169.1	1624.3	860.9	625.6	560.8	497.3	438.9	408.6	412.8
50°	2613.9	2463.8	2257.4	1573.9	829.4	615.4	532.6	457.8	388.9	361.5	363.2
52.5°	2759.7	2619.8	2333.5	1502.0	797.4	578.0	496.5	406.5	368.3	349.3	349.3
55°	2906.5	2774.1	2416.3	1397.3	717.6	534.3	435.9	387.1	351.9	334.7	332.9
57.5°	3053.6	2952.3	2495.0	1292.6	617.2	480.5	402.7	363.7	335.5	320.7	318.3
60°	3206.6	3156.2	2576.0	1196.4	517.9	411.5	378.3	344.7	316.1	299.7	298.5
62.5°	3364.3	3380.7	2639.5	1072.4	426.7	369.5	356.5	322.1	294.3	278.7	278.3
65°	3523.1	3597.1	2681.2	900.5	345.9	329.5	332.9	297.2	269.1	255.6	255.1
67.5°	3643.0	3753.1	2669.4	681.4	283.7	291.7	303.5	271.1	244.7	234.1	234.5
70°	3656.4	3734.6	2553.4	466.6	237.5	254.7	270.7	245.5	218.2	210.6	211.0
72.5°	3477.3	3482.3	2230.1	304.7	200.9	223.7	236.3	219.5	192.9	185.4	185.0
75°	3007.8	2879.9	1637.3	200.9	168.1	192.1	203.9	192.1	166.5	168.1	162.3
77.5°	2278.9	2039.6	994.1	142.9	140.4	161.4	177.4	169.0	147.1	165.2	145.4
80°	1174.1	1103.5	443.5	106.8	111.0	129.0	145.9	134.9	116.4	111.0	101.3
82.5°	269.1	312.7	174.9	76.5	80.3	92.9	111.4	101.3	83.6	70.6	69.8
85°	94.2	103.0	77.4	48.0	47.0	58.0	75.6	67.6	56.8	45.4	48.0
87.5°	29.8	39.1	29.0	19.4	20.2	26.0	34.8	32.0	26.4	17.2	18.0
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)