

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: P960469

Luminaire Tested: **NAV-SB1C-827-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960469
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

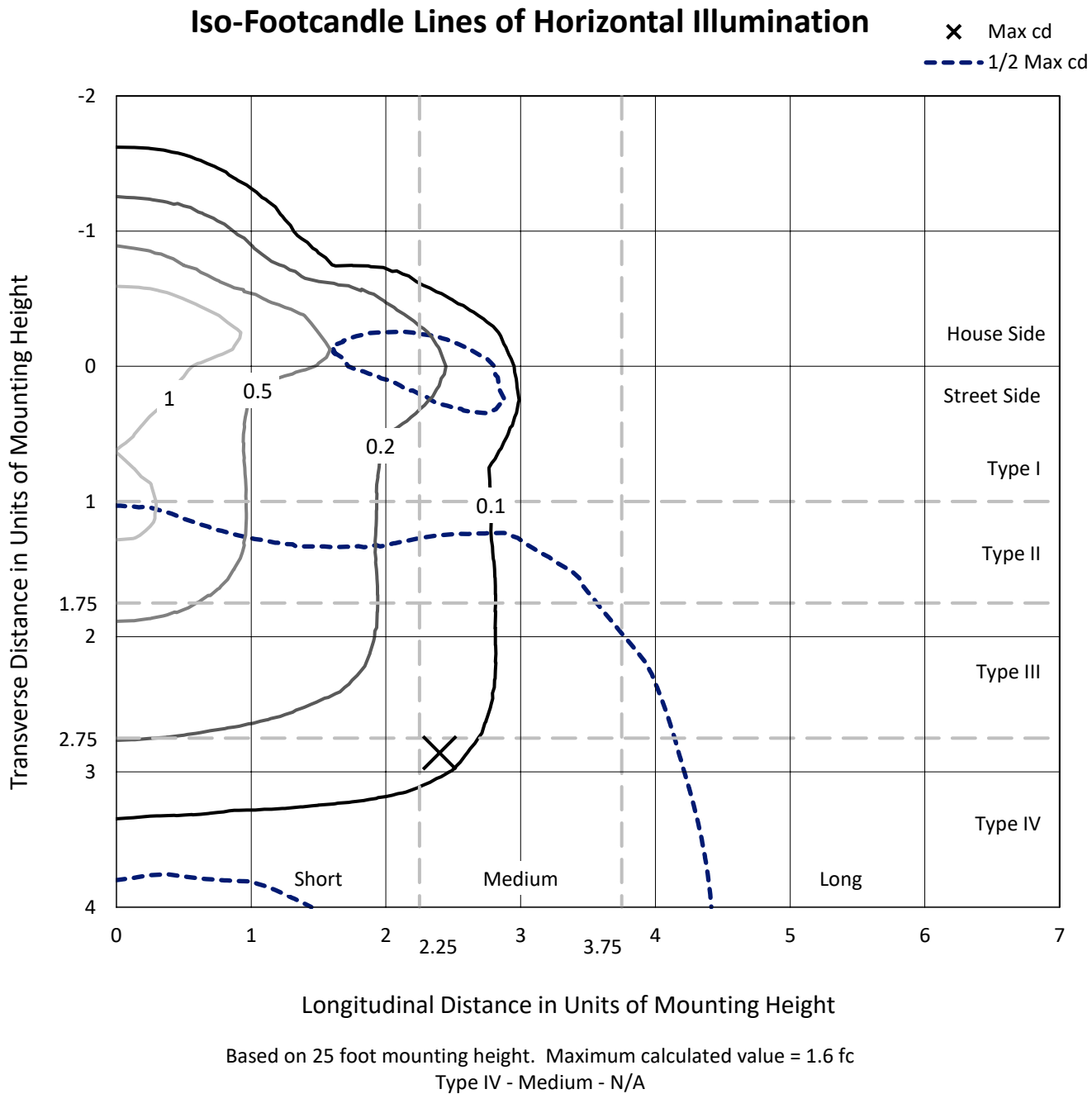
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6619.4 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 54.4
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

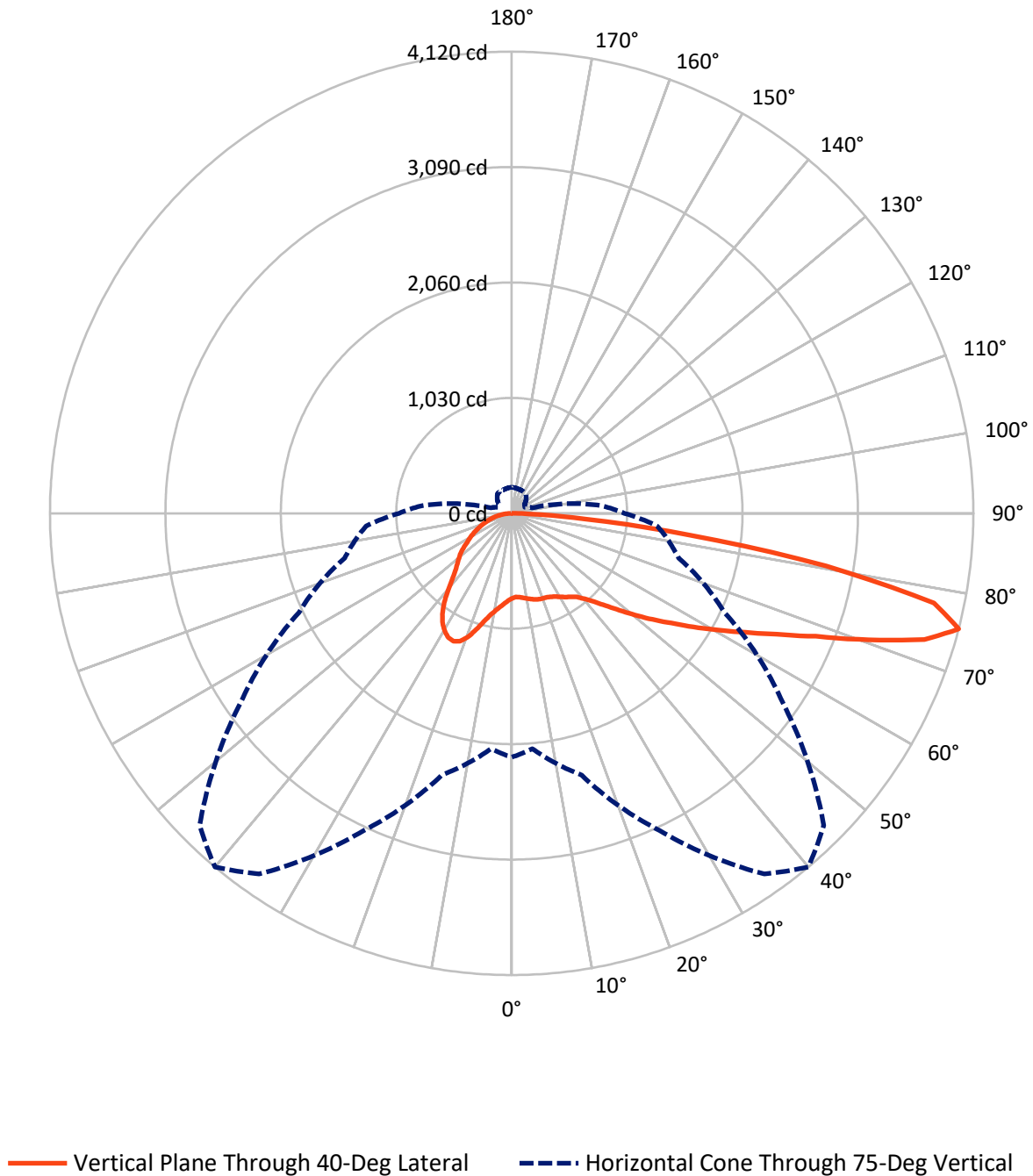


REPORT NUMBER: P960469
CATALOG NUMBER: NAV-SB1C-827-U-SL4



REPORT NUMBER: P960469
CATALOG NUMBER: NAV-SB1C-827-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P960469

CATALOG NUMBER: NAV-SB1C-827-U-SL4

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2050.9	0.0	2050.9
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4568.5	0.0	4568.5
	% Fixture	69.0	0.0	69.0
Total	Lumens	6619.4	0.0	6619.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.6	1.1
10°-20°	253.7	3.8
20°-30°	463.2	7.0
30°-40°	656.9	9.9
40°-50°	887.1	13.4
50°-60°	1193.3	18.0
60°-70°	1514.6	22.9
70°-80°	1374.6	20.8
80°-90°	200.4	3.0
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°	6619.4	100.0
0°-180°	6619.4	100.0

Coefficient of Utilization



REPORT NUMBER: P960469

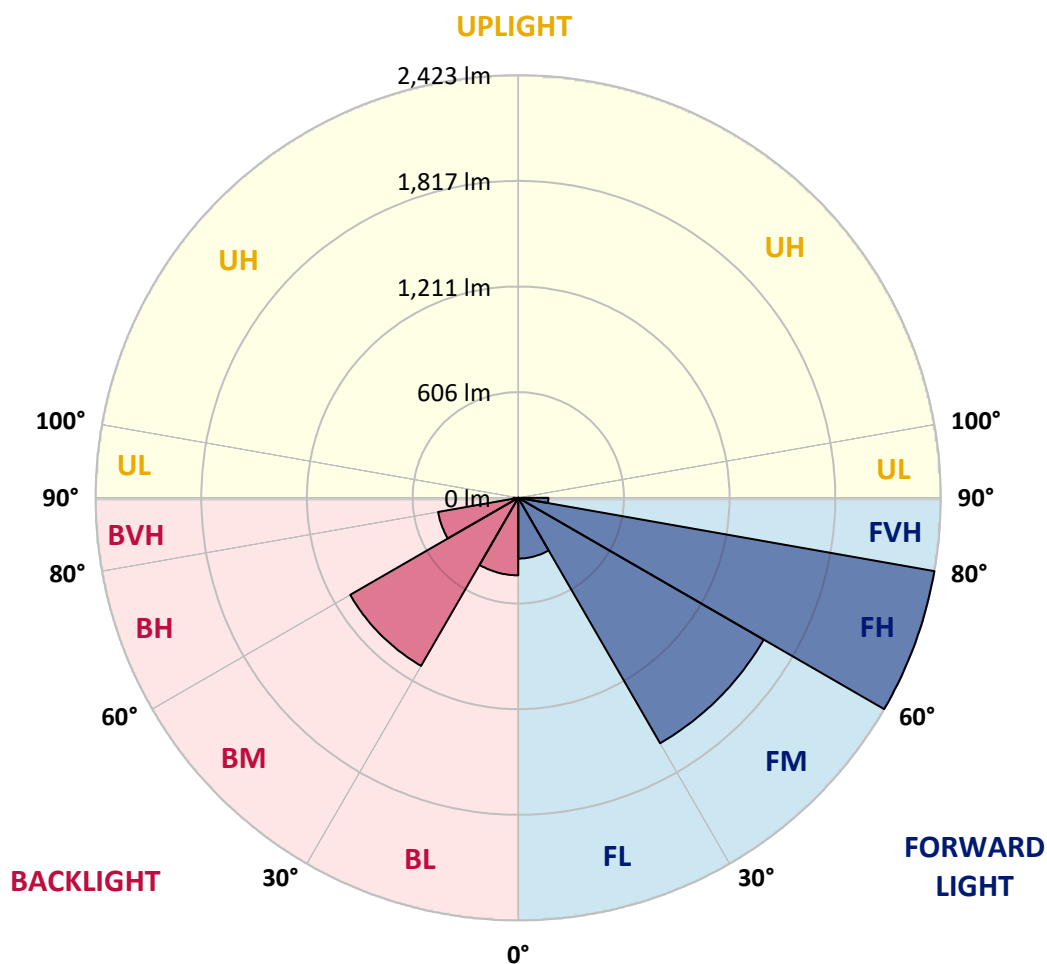
CATALOG NUMBER: NAV-SB1C-827-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.2	5.3			
FM	(30°-60°)	1624.9	24.5			
FH	(60°-80°)	2422.6	36.6			G2/5000
FVH	(80°-90°)	172.8	2.6			G2/225
BL	(0°-30°)	444.3	6.7	B1/500		
BM	(30°-60°)	1112.4	16.8	B2/2500		
BH	(60°-80°)	466.7	7.0	B1/500		G1/500
BVH	(80°-90°)	27.6	0.4			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 Medium



REPORT NUMBER: P960469

CATALOG NUMBER: NAV-SB1C-827-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0
2.5°	745.4	749.6	748.6	747.1	747.1	747.4	747.1	749.6	752.0	754.5	758.4
5°	753.1	757.3	755.2	753.5	752.0	751.6	750.6	750.3	751.6	754.8	760.1
7.5°	768.1	772.4	769.3	766.1	763.2	761.9	760.4	758.4	757.3	759.0	766.4
10°	785.0	789.2	785.4	779.7	775.2	773.5	772.0	770.0	768.5	769.6	777.7
12.5°	801.9	806.1	800.8	793.1	787.1	786.1	784.3	783.6	783.3	782.9	791.0
15°	817.6	821.2	814.6	805.3	799.1	797.3	795.6	796.6	798.4	800.5	809.6
17.5°	829.9	833.5	823.7	811.7	805.8	805.0	804.0	807.5	812.4	817.6	828.9
20°	841.2	844.7	832.1	815.9	808.9	808.9	809.2	816.6	823.7	831.4	846.9
22.5°	857.0	859.8	844.4	822.3	812.1	812.7	815.6	823.0	831.7	842.2	863.7
25°	880.5	882.6	863.7	834.1	822.6	824.7	827.2	830.7	839.1	851.4	880.2
27.5°	918.4	920.2	895.2	855.3	837.7	841.2	844.7	842.2	846.1	856.7	893.5
30°	971.8	972.8	941.3	888.3	863.4	865.1	865.8	855.6	848.2	856.7	903.0
32.5°	1035.0	1034.6	997.1	928.2	892.5	890.7	884.8	864.7	847.6	854.8	911.4
35°	1132.9	1129.1	1080.7	984.4	925.5	914.6	900.6	874.9	851.1	853.1	918.8
37.5°	1295.2	1283.2	1216.2	1076.5	974.6	946.9	926.2	891.4	858.7	852.4	927.5
40°	1478.0	1463.0	1389.3	1202.4	1048.4	1003.8	970.4	914.9	871.4	855.6	940.5
42.5°	1695.0	1673.6	1594.3	1350.9	1141.7	1077.2	1026.9	944.7	890.0	865.8	958.1
45°	1961.5	1933.0	1820.7	1518.4	1259.3	1173.3	1106.3	990.0	918.4	885.4	984.4
47.5°	2230.8	2237.8	2078.1	1710.1	1400.5	1292.0	1205.6	1058.2	959.9	917.1	1026.9
50°	2517.0	2521.8	2334.0	1922.6	1560.6	1426.1	1317.2	1134.4	1017.4	962.0	1090.5
52.5°	2740.2	2741.0	2566.4	2144.8	1727.3	1573.6	1437.7	1221.4	1084.1	1021.6	1175.1
55°	2879.9	2878.2	2729.4	2355.0	1919.0	1728.4	1571.1	1320.4	1165.6	1091.8	1281.5
57.5°	2981.4	2976.2	2841.7	2535.8	2123.4	1911.3	1722.1	1432.7	1261.8	1175.5	1421.6
60°	3020.1	3016.9	2917.9	2692.2	2338.2	2113.5	1896.2	1558.5	1371.0	1274.1	1601.7
62.5°	3034.8	3040.8	2992.7	2843.5	2568.2	2337.5	2087.5	1708.8	1493.8	1385.7	1791.6
65°	3086.8	3097.7	3087.8	3041.5	2828.0	2599.8	2341.4	1887.4	1628.0	1505.4	1989.9
67.5°	3189.6	3200.5	3204.8	3278.5	3145.4	2926.7	2658.0	2110.1	1784.9	1629.7	2139.2
70°	3187.1	3184.0	3258.5	3467.0	3542.8	3379.2	3085.0	2383.8	1972.1	1733.0	2158.1
72.5°	2901.1	2875.7	3051.6	3464.9	3873.6	3851.7	3606.4	2737.1	2133.5	1745.6	1872.7
75°	2176.4	2108.9	2419.7	3122.6	3928.6	4120.0	3937.7	2956.1	2095.3	1542.3	1303.2
77.5°	930.7	862.9	1229.2	2311.6	3516.2	3851.4	3633.7	2579.1	1672.6	1019.9	640.0
80°	243.6	243.3	371.5	1048.0	2391.2	2844.2	2495.2	1665.5	955.6	364.4	176.6
82.5°	100.8	98.3	136.5	407.6	1168.4	1596.0	1302.6	742.9	345.1	98.6	58.6
85°	37.6	37.2	66.3	140.8	412.2	658.3	476.4	189.9	86.0	48.1	26.3
87.5°	10.6	10.1	14.3	48.8	100.4	152.4	81.5	31.3	24.2	19.0	7.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P960469

CATALOG NUMBER: NAV-SB1C-827-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0	757.0
2.5°	759.4	761.2	764.3	766.8	770.0	773.5	778.4	781.6	784.6	786.8	785.4
5°	762.6	766.4	774.5	782.6	792.0	800.8	811.0	818.4	824.3	826.2	826.8
7.5°	769.6	775.9	789.6	803.3	818.4	832.8	847.6	860.2	870.3	874.2	874.5
10°	781.9	790.3	809.6	828.9	848.9	871.0	890.0	908.3	922.7	928.6	929.0
12.5°	797.3	807.8	833.1	859.8	887.5	918.1	942.7	965.1	983.1	991.1	991.1
15°	817.3	831.1	863.4	899.1	939.8	982.4	1013.6	1038.5	1058.5	1068.4	1067.6
17.5°	839.1	857.3	898.1	952.1	1010.4	1066.2	1102.8	1121.0	1141.7	1151.2	1150.9
20°	860.2	882.6	941.0	1019.6	1097.2	1156.5	1185.9	1190.8	1192.3	1193.3	1196.2
22.5°	881.9	912.1	994.7	1104.5	1187.8	1228.8	1233.0	1212.0	1182.4	1168.8	1172.6
25°	905.8	945.9	1064.9	1198.2	1265.7	1270.6	1238.3	1187.1	1131.2	1105.6	1109.5
27.5°	929.0	984.8	1149.1	1287.8	1321.8	1278.7	1209.2	1136.4	1069.1	1042.0	1045.2
30°	952.1	1029.4	1242.1	1366.1	1347.5	1258.6	1163.2	1082.1	1014.3	985.8	989.0
32.5°	975.7	1081.4	1349.2	1422.6	1343.0	1216.2	1105.9	1021.0	961.2	931.4	935.3
35°	1002.3	1145.2	1450.7	1453.4	1312.4	1153.6	1030.4	947.9	896.0	872.1	877.4
37.5°	1037.1	1226.3	1540.3	1461.2	1259.0	1062.0	936.7	861.6	818.8	807.8	815.6
40°	1080.2	1324.0	1608.6	1448.9	1180.0	950.8	834.1	774.2	749.9	752.3	760.8
42.5°	1136.4	1433.2	1656.8	1417.4	1070.1	835.9	744.4	717.6	729.2	739.0	748.1
45°	1209.5	1546.5	1686.6	1363.7	945.9	738.7	691.3	697.6	706.4	707.5	714.4
47.5°	1302.9	1661.3	1706.3	1282.5	819.1	670.2	657.5	659.0	657.2	649.8	655.5
50°	1419.4	1772.9	1723.8	1175.1	711.3	627.4	610.5	605.7	581.4	557.5	560.7
52.5°	1552.2	1875.5	1731.2	1041.7	627.4	591.6	564.2	533.3	488.0	480.6	483.1
55°	1699.7	1970.3	1712.3	877.7	556.8	545.6	504.2	467.0	462.1	455.7	456.7
57.5°	1875.9	2072.4	1673.6	694.8	484.5	491.9	451.5	455.7	446.9	437.1	435.3
60°	2068.6	2178.1	1605.9	528.1	409.7	424.9	437.8	437.5	435.0	426.9	424.1
62.5°	2242.1	2247.6	1472.4	404.5	344.1	372.9	408.4	408.0	405.9	401.3	399.5
65°	2345.3	2237.2	1249.9	318.5	290.0	330.0	368.3	371.0	371.5	371.0	371.0
67.5°	2327.0	2113.9	944.4	253.5	245.4	286.5	328.6	332.5	335.3	336.0	336.7
70°	2120.5	1843.2	615.8	202.2	205.7	248.3	291.1	294.9	297.4	300.2	301.6
72.5°	1652.9	1355.2	352.5	163.6	171.0	215.2	253.8	258.4	259.8	265.1	267.2
75°	1007.3	796.9	190.2	128.8	140.4	184.0	217.0	222.2	224.7	231.0	231.8
77.5°	478.9	345.1	108.4	100.4	113.1	150.3	183.3	189.2	182.6	186.0	183.3
80°	161.8	128.1	68.5	76.6	86.4	117.3	146.8	152.7	138.7	138.0	136.5
82.5°	56.5	52.0	43.6	50.9	55.9	83.9	110.9	118.7	103.2	102.9	98.0
85°	22.1	21.1	24.2	27.8	33.3	51.7	73.0	76.9	63.6	51.2	50.5
87.5°	4.6	4.9	5.9	6.4	10.1	17.9	26.3	32.3	25.6	21.7	20.0
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)