

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: P959878

Luminaire Tested: **NAV-SB1B-750-U-SL3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959878
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-750-U-SL3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 5000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

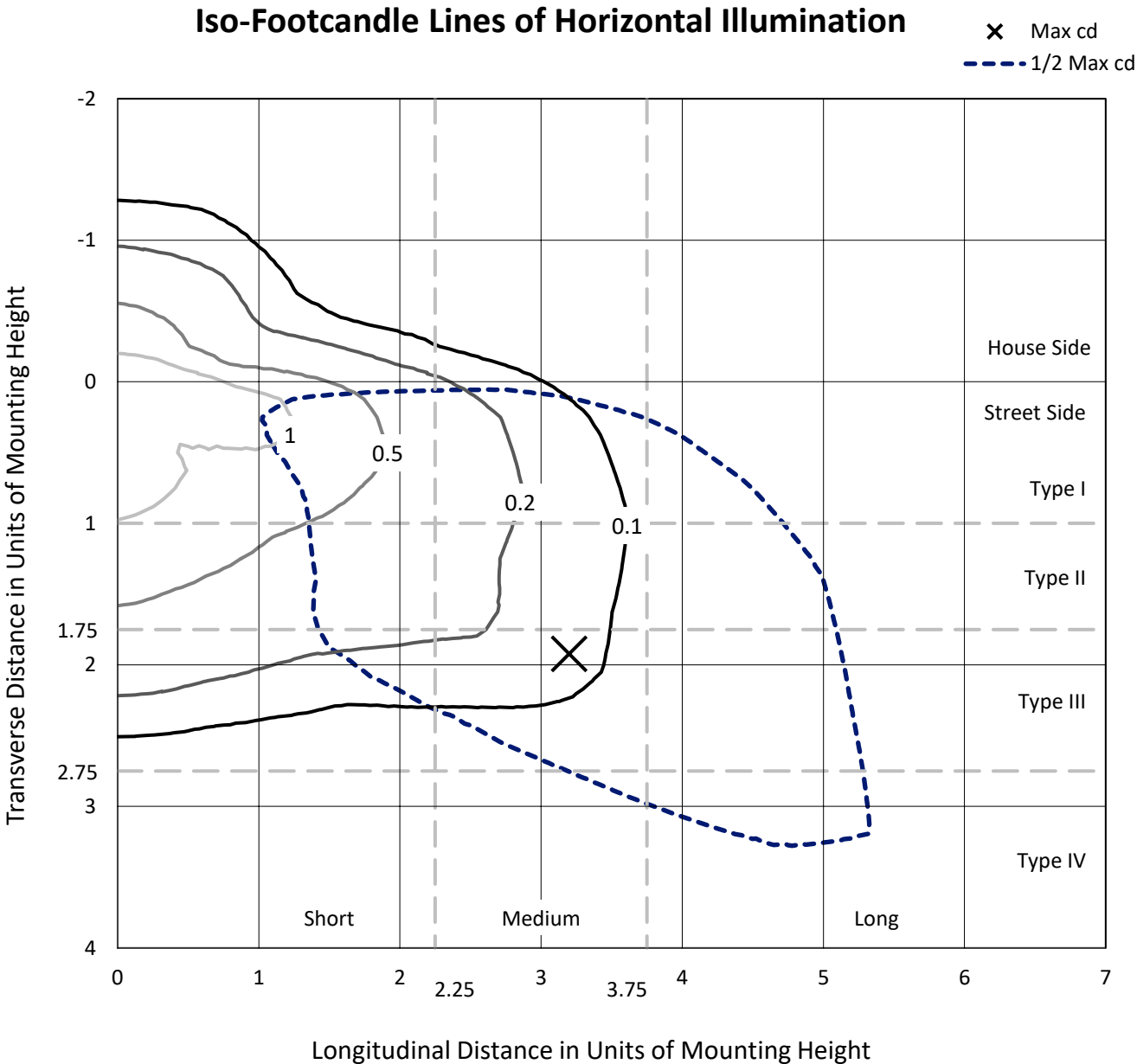
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5969.6 lumens
Efficiency: N/A
Efficacy: 150.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 39.8
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



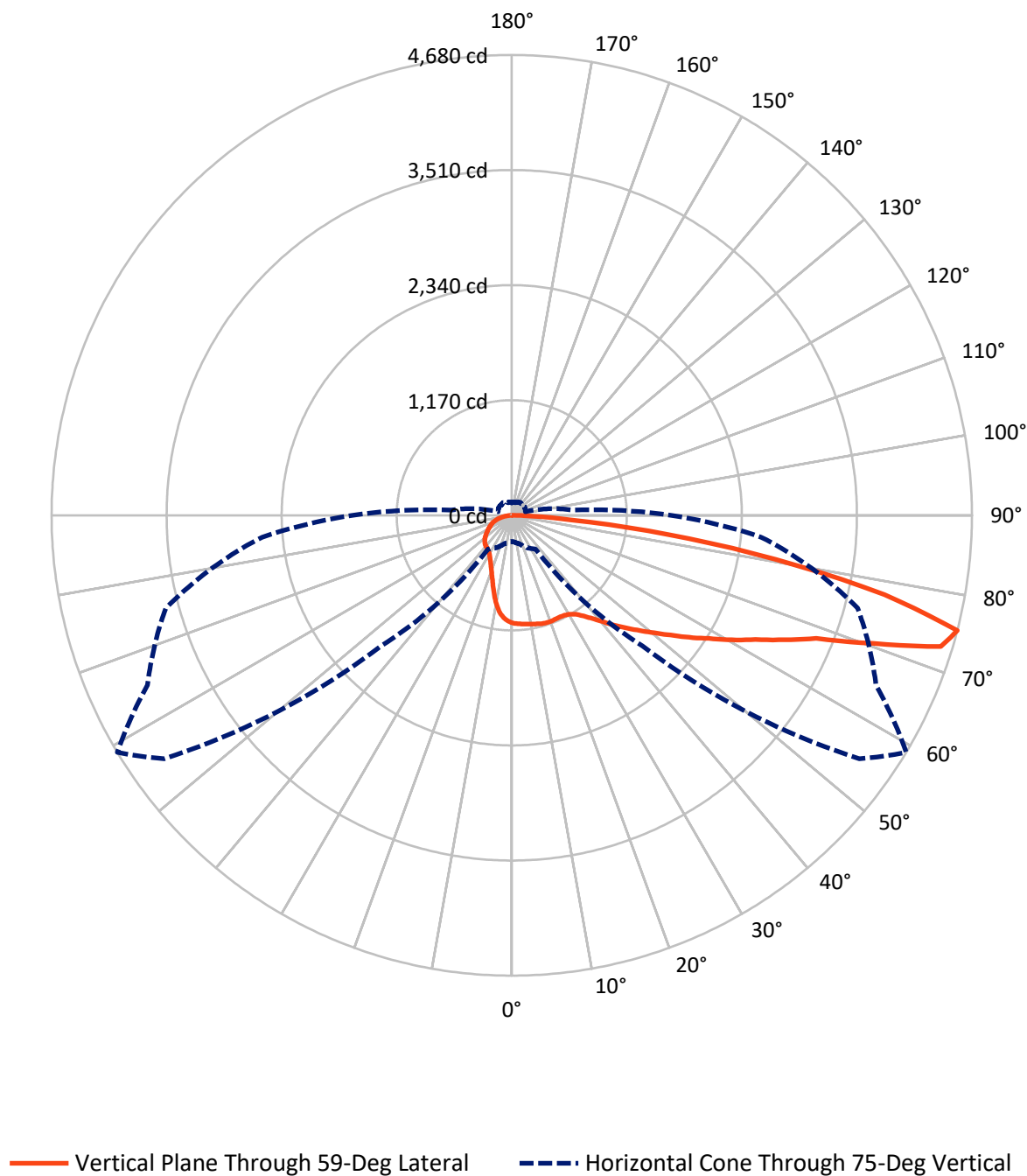
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Based on 25 foot mounting height. Maximum calculated value = 1.8 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1119.6	0.0	1119.6
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	4850.0	0.0	4850.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	5969.6	0.0	5969.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	1.6
10°-20°	251.1	4.2
20°-30°	381.4	6.4
30°-40°	567.0	9.5
40°-50°	843.2	14.1
50°-60°	1144.6	19.2
60°-70°	1397.4	23.4
70°-80°	1096.6	18.4
80°-90°	190.0	3.2
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°	5969.6	100.0
0°-180°	5969.6	100.0

Coefficient of Utilization



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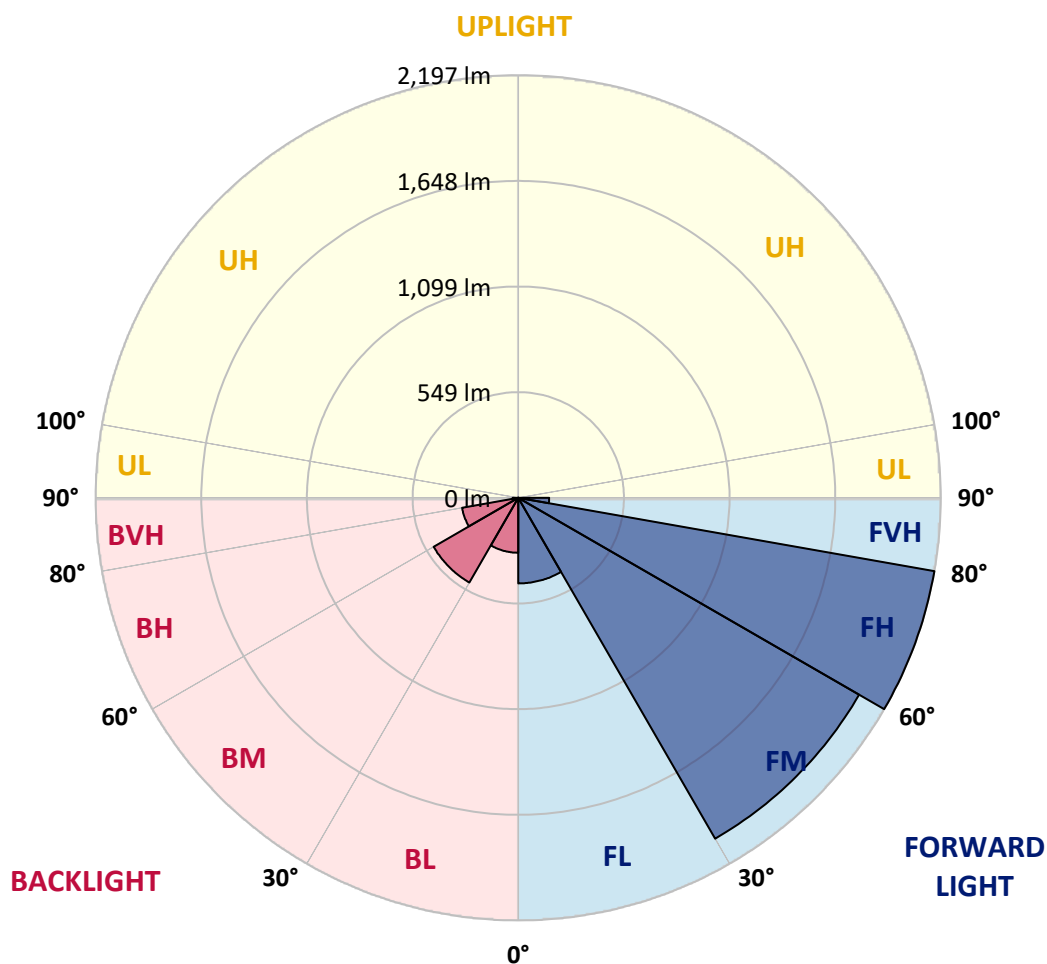
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	445.1	7.5			
FM	(30°-60°)	2046.6	34.3			
FH	(60°-80°)	2197.4	36.8			G2/5000
FVH	(80°-90°)	160.9	2.7			G2/225
BL	(0°-30°)	285.7	4.8	B1/500		
BM	(30°-60°)	508.2	8.5	B1/1000		
BH	(60°-80°)	296.6	5.0	B1/500		G1/500
BVH	(80°-90°)	29.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7
2.5°	1105.1	1101.2	1105.1	1103.4	1102.8	1101.5	1101.8	1104.0	1102.8	1104.3	1098.9
5°	1097.7	1095.4	1099.2	1098.3	1102.5	1103.1	1107.3	1109.9	1111.4	1111.7	1107.6
7.5°	1085.5	1083.2	1088.7	1093.2	1102.1	1104.7	1113.4	1117.6	1119.8	1123.6	1117.6
10°	1040.8	1039.9	1053.3	1070.3	1091.5	1104.7	1117.9	1124.9	1128.4	1138.8	1131.7
12.5°	961.8	963.1	980.7	1013.5	1055.9	1098.3	1123.0	1133.2	1138.8	1151.6	1148.4
15°	886.3	886.0	905.3	940.2	999.7	1070.0	1125.6	1143.3	1152.5	1171.5	1168.9
17.5°	842.7	841.3	854.8	881.5	936.7	1026.6	1119.2	1148.7	1168.6	1192.4	1190.1
20°	834.7	832.1	839.2	852.3	891.4	979.2	1102.5	1148.7	1181.4	1212.3	1211.0
22.5°	863.9	859.7	856.8	855.2	872.5	939.9	1083.5	1144.8	1200.4	1240.9	1238.6
25°	922.6	916.1	901.4	886.9	881.8	922.3	1066.8	1143.9	1228.7	1279.4	1271.0
27.5°	1017.7	1009.6	979.8	945.0	914.0	931.3	1059.4	1149.6	1259.8	1320.2	1303.5
30°	1135.5	1126.9	1089.3	1036.0	980.1	964.7	1068.8	1166.7	1299.6	1374.4	1341.7
32.5°	1241.2	1231.5	1199.5	1145.1	1069.7	1022.4	1098.3	1199.1	1362.2	1450.0	1399.2
35°	1335.0	1323.7	1294.8	1244.8	1179.6	1103.7	1151.6	1256.5	1451.2	1572.6	1477.2
37.5°	1426.8	1413.6	1382.1	1329.2	1283.6	1212.0	1225.1	1330.4	1569.4	1721.6	1580.7
40°	1529.6	1510.6	1472.4	1420.0	1375.8	1338.9	1321.7	1421.1	1689.5	1887.9	1709.7
42.5°	1629.1	1611.1	1565.5	1520.9	1465.3	1454.8	1433.9	1526.9	1820.8	2070.7	1840.7
45°	1736.4	1714.8	1659.6	1603.1	1568.0	1531.8	1542.4	1632.9	1949.5	2256.9	1978.1
47.5°	1836.9	1812.8	1747.6	1684.7	1665.4	1596.6	1641.9	1749.6	2083.5	2445.8	2114.4
50°	1891.1	1867.3	1813.1	1756.2	1741.2	1676.6	1749.9	1877.7	2223.8	2633.9	2245.1
52.5°	1936.4	1910.7	1839.8	1808.3	1803.8	1763.6	1882.8	2024.1	2364.2	2800.3	2371.2
55°	1984.6	1956.0	1865.5	1837.2	1857.7	1861.3	2040.5	2190.1	2512.6	2962.5	2490.3
57.5°	2040.2	2003.9	1890.2	1861.6	1910.4	1975.6	2221.6	2362.2	2658.3	3112.7	2596.3
60°	2092.5	2055.9	1937.8	1900.5	1967.3	2108.2	2429.4	2570.7	2823.4	3246.7	2696.6
62.5°	2102.8	2072.5	1975.6	1975.3	2044.4	2263.0	2675.4	2781.0	2967.6	3379.0	2786.5
65°	1924.8	1905.9	1848.5	1972.4	2154.8	2485.9	2949.3	3050.1	3151.0	3494.5	2865.5
67.5°	1465.0	1467.6	1463.4	1702.6	2065.6	2806.0	3345.9	3338.2	3377.4	3624.3	2956.3
70°	669.8	685.0	783.2	1175.4	1654.8	2843.0	4001.6	3901.8	3661.6	3792.3	3035.0
72.5°	361.9	373.5	413.6	569.4	994.9	2527.6	4491.7	4562.7	4039.5	3905.4	2948.6
75°	265.6	272.0	299.9	361.9	417.8	1878.6	4316.1	4680.2	4086.8	3641.6	2546.3
77.5°	198.7	201.7	224.5	286.8	213.9	990.4	3448.6	3876.0	3498.4	2992.0	1880.9
80°	144.2	147.4	164.4	215.1	150.0	362.2	2368.1	2720.7	2395.9	1907.2	937.4
82.5°	99.5	100.9	108.2	146.5	104.7	140.6	1343.7	1595.4	1337.5	669.2	253.1
85°	60.1	61.7	64.9	85.4	59.4	66.8	579.9	599.8	399.9	159.9	78.7
87.5°	24.7	26.3	28.9	36.0	23.5	18.7	95.7	120.1	74.8	46.8	24.4
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°	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7	1095.7
2.5°	1097.3	1095.1	1089.0	1080.7	1072.9	1063.2	1059.1	1055.5	1052.4	1046.2	1043.3
5°	1104.0	1098.0	1081.6	1060.4	1036.3	1009.9	984.3	966.6	951.5	940.2	931.0
7.5°	1114.4	1102.8	1072.9	1029.5	974.4	917.8	866.7	830.5	803.2	793.2	775.8
10°	1124.9	1111.1	1059.1	982.7	887.3	800.2	732.5	695.3	673.4	666.4	655.4
12.5°	1137.4	1117.2	1037.6	917.5	790.0	694.6	635.5	613.7	602.5	598.6	599.5
15°	1155.8	1122.4	1005.1	835.9	697.2	617.6	579.3	564.3	558.4	558.1	559.4
17.5°	1169.5	1123.3	954.7	748.6	625.9	570.9	539.5	533.7	537.6	543.4	545.6
20°	1185.0	1114.7	888.6	668.9	575.7	530.2	517.0	520.9	530.2	538.5	541.4
22.5°	1195.9	1098.9	808.6	606.9	532.5	506.8	506.1	514.1	519.3	523.5	525.7
25°	1205.5	1072.3	723.9	554.9	496.8	492.6	499.7	497.1	493.5	497.1	499.4
27.5°	1212.6	1030.2	648.0	509.3	471.7	483.0	478.8	473.0	472.7	474.7	477.9
30°	1210.3	974.0	585.8	466.0	454.1	465.0	455.0	454.1	453.2	454.1	457.7
32.5°	1210.3	910.1	537.9	436.1	442.8	438.7	437.7	435.4	431.6	431.3	435.4
35°	1217.1	846.1	496.8	420.0	433.6	423.5	424.2	418.7	410.7	406.9	410.7
37.5°	1230.9	794.8	456.0	412.4	417.2	416.9	414.3	405.0	390.8	378.6	382.8
40°	1264.3	779.7	428.0	408.8	409.5	413.3	406.5	388.6	356.5	336.5	339.1
42.5°	1316.6	805.0	422.0	400.2	404.3	408.2	395.0	353.2	330.5	318.6	318.6
45°	1383.1	849.4	435.1	387.7	392.1	398.8	359.7	339.8	329.4	329.8	331.4
47.5°	1467.3	896.0	459.5	376.7	374.4	378.3	336.2	324.0	309.9	313.4	322.5
50°	1564.6	943.2	482.7	361.9	354.9	342.3	321.1	309.5	291.6	283.2	285.5
52.5°	1669.9	988.8	492.0	343.9	333.6	319.2	310.9	296.7	274.9	261.1	260.8
55°	1769.8	1030.2	481.7	322.5	312.4	301.2	299.9	291.3	267.8	248.6	248.6
57.5°	1864.2	1064.9	456.0	300.5	291.0	284.2	292.8	288.7	259.1	234.4	233.2
60°	1944.1	1088.7	418.7	278.4	271.7	268.1	281.4	280.0	246.9	219.4	218.3
62.5°	2007.8	1098.0	377.6	257.3	255.6	249.2	265.3	265.3	231.5	204.6	203.6
65°	2057.5	1089.0	335.9	236.4	239.5	229.9	245.7	243.7	215.1	191.4	190.1
67.5°	2101.5	1059.4	289.7	215.8	223.1	210.9	225.1	220.6	197.2	178.2	176.9
70°	2121.1	990.7	237.0	195.3	204.3	192.4	204.6	196.2	176.9	164.1	161.5
72.5°	1963.7	823.4	186.5	173.7	181.4	171.8	182.4	172.8	155.1	149.3	144.5
75°	1624.6	617.9	143.5	150.3	156.1	148.7	155.8	148.7	132.6	136.8	124.9
77.5°	1179.9	417.2	109.8	125.6	128.1	124.2	130.4	122.4	107.9	106.9	102.1
80°	586.7	244.4	86.1	99.2	98.3	95.7	102.8	98.9	86.7	91.8	90.9
82.5°	169.8	104.7	62.6	69.7	67.8	68.4	73.5	75.4	113.1	112.0	114.6
85°	53.3	41.1	37.6	38.8	36.9	37.9	43.4	86.1	79.6	46.5	50.4
87.5°	13.8	14.1	9.3	9.9	10.2	12.2	13.8	52.4	25.0	16.4	17.3
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)