

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: P961852

Luminaire Tested: **NAV-SB2B-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961852
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: LUMARK
Catalog Number: NAV-SB2B-722-U-T4W
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9516.1 lumens
Efficiency: N/A
Efficacy: 128.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

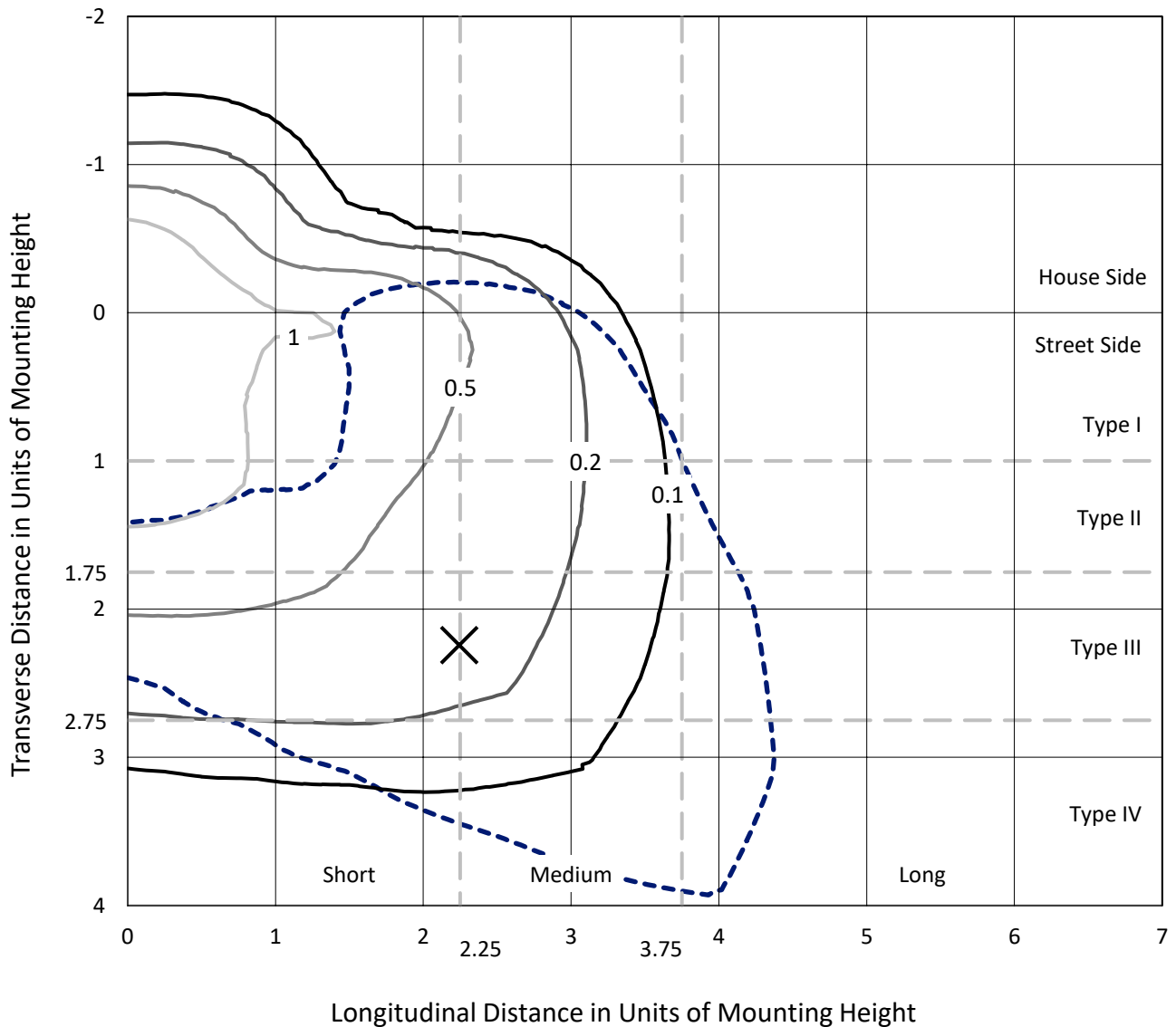
Input Watts (W): 73.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

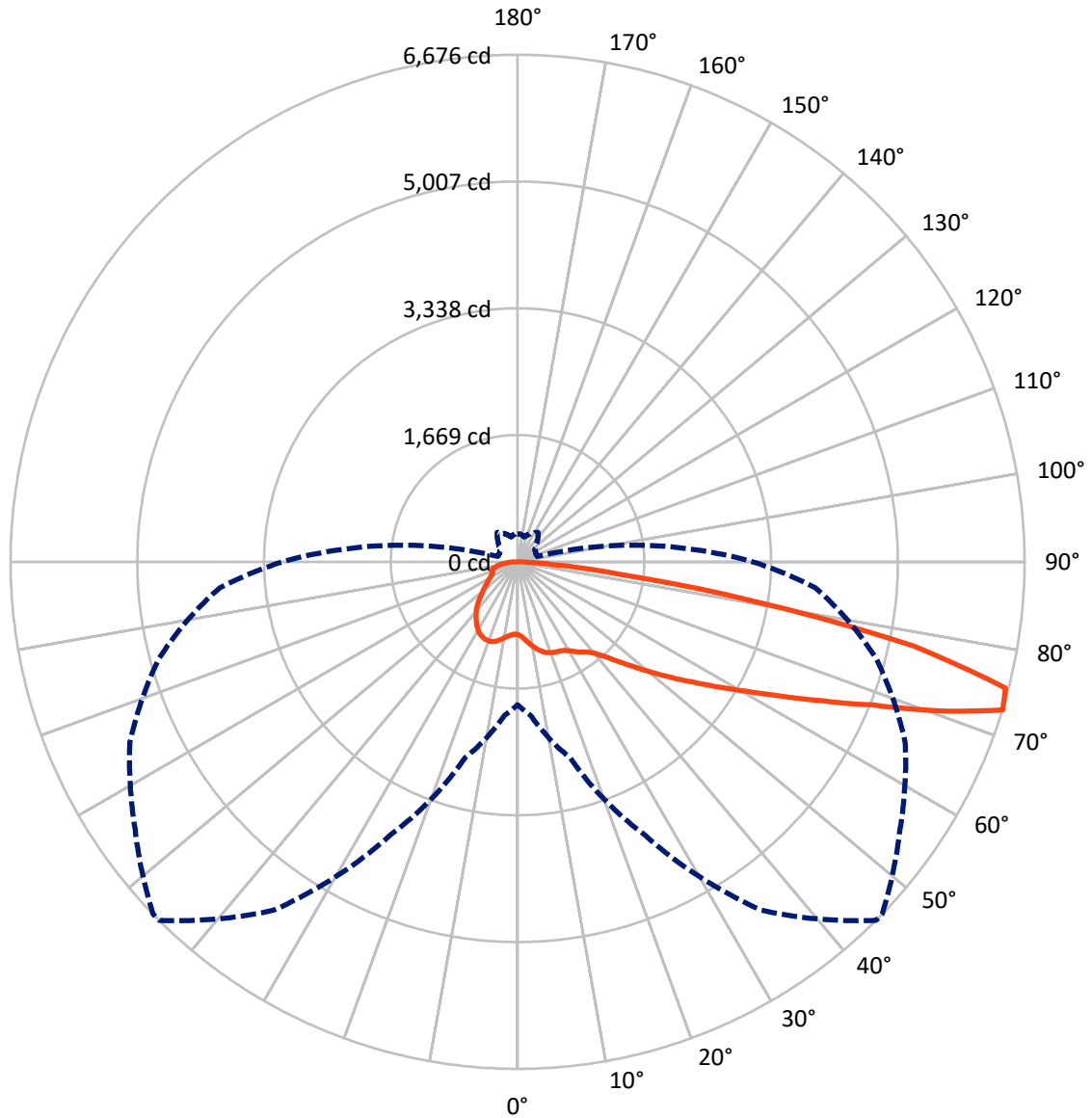
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2151.3	0.0	2151.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	7364.8	0.0	7364.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	9516.1	0.0	9516.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	1.0
10°-20°	325.8	3.4
20°-30°	566.7	6.0
30°-40°	812.4	8.5
40°-50°	1143.9	12.0
50°-60°	1752.1	18.4
60°-70°	2538.2	26.7
70°-80°	2026.9	21.3
80°-90°	252.4	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°	9516.1	100.0
0°-180°	9516.1	100.0

Coefficient of Utilization

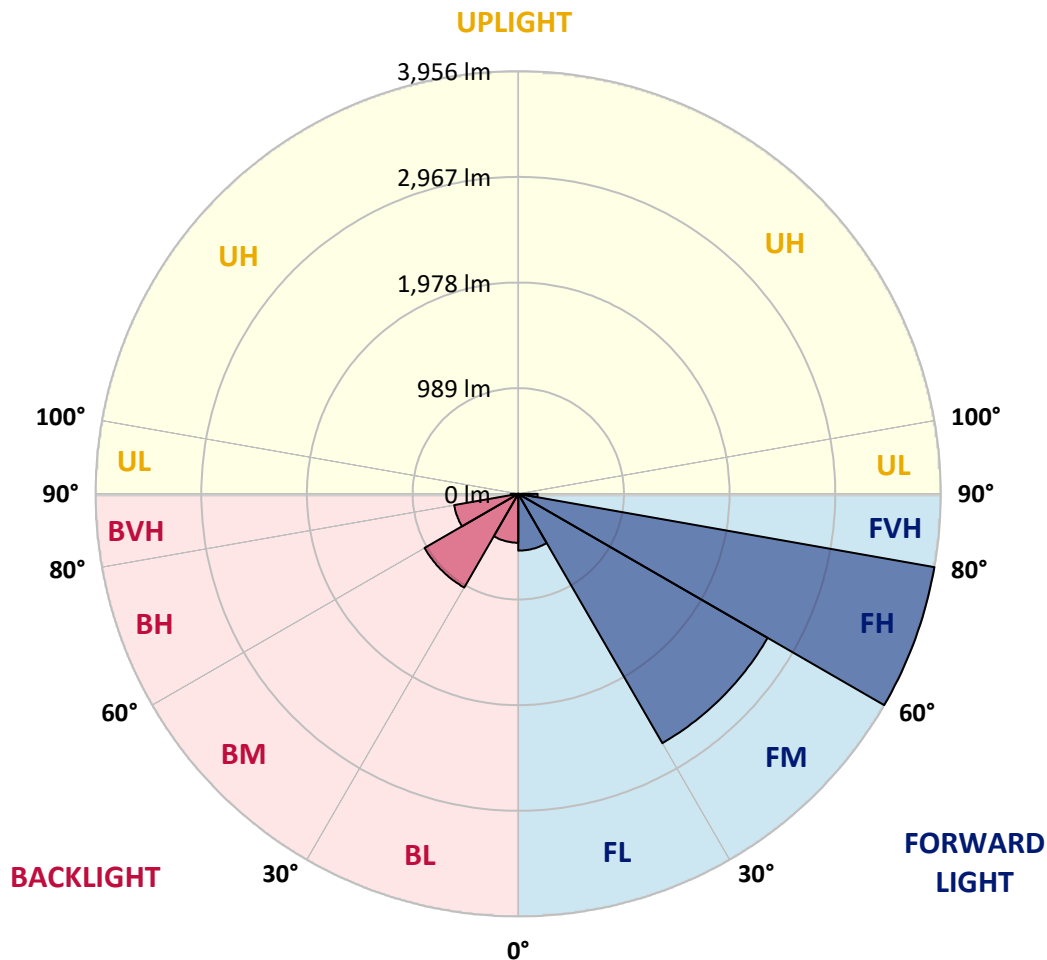


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	532.2	5.6			
FM (30°-60°)	2695.5	28.3			
FH (60°-80°)	3956.1	41.6			G2/5000
FVH (80°-90°)	181.1	1.9			G2/225
BL (0°-30°)	458.0	4.8	B1/500		
BM (30°-60°)	1012.9	10.6	B2/2500		
BH (60°-80°)	609.0	6.4	B2/1000		G2/1000
BVH (80°-90°)	71.3	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°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0
2.5°	997.6	1004.1	998.0	992.6	990.0	983.6	983.1	979.1	976.5	969.5	967.5
5°	1067.2	1075.8	1065.8	1054.7	1044.7	1028.7	1026.6	1015.2	1002.1	987.1	978.6
7.5°	1145.9	1153.5	1142.0	1125.4	1107.9	1081.3	1080.8	1059.7	1039.1	1013.6	999.1
10°	1214.6	1224.7	1209.1	1186.5	1164.5	1134.5	1130.9	1106.9	1080.8	1047.8	1025.6
12.5°	1275.3	1282.3	1267.3	1239.7	1214.1	1184.1	1179.6	1153.0	1123.9	1086.3	1058.2
15°	1323.5	1332.5	1312.4	1282.8	1255.7	1226.2	1222.2	1198.1	1169.0	1129.4	1093.4
17.5°	1355.0	1362.5	1341.9	1308.9	1282.8	1258.3	1255.2	1235.2	1209.6	1169.5	1130.9
20°	1367.0	1375.0	1353.5	1319.9	1295.9	1276.8	1275.3	1260.8	1243.2	1206.6	1167.6
22.5°	1379.0	1386.6	1358.5	1323.5	1302.4	1290.4	1289.9	1280.3	1273.3	1243.2	1205.1
25°	1427.7	1429.7	1392.2	1341.5	1311.4	1300.8	1300.4	1299.9	1302.9	1279.3	1245.7
27.5°	1469.8	1469.3	1437.3	1389.6	1343.0	1320.9	1320.4	1325.4	1335.0	1315.4	1287.8
30°	1531.5	1525.9	1487.9	1438.3	1395.6	1361.5	1358.5	1354.0	1361.5	1346.0	1329.9
32.5°	1662.3	1644.7	1583.1	1494.9	1439.2	1413.2	1409.2	1381.1	1384.1	1374.5	1366.5
35°	1849.8	1826.8	1744.6	1602.2	1493.3	1456.3	1454.3	1418.7	1412.7	1404.1	1407.1
37.5°	2072.9	2044.3	1948.5	1757.6	1586.6	1506.4	1503.4	1471.3	1446.8	1437.8	1454.8
40°	2296.9	2260.8	2181.6	1947.1	1723.9	1590.1	1580.6	1532.0	1503.9	1488.8	1525.0
42.5°	2514.5	2484.4	2416.7	2159.6	1893.4	1712.5	1691.4	1608.1	1587.1	1573.1	1638.3
45°	2707.0	2680.0	2630.4	2386.7	2091.9	1878.8	1858.3	1722.5	1716.0	1716.0	1810.2
47.5°	2863.4	2857.4	2804.8	2618.3	2326.0	2068.3	2032.8	1881.4	1898.9	1926.0	2054.3
50°	3036.9	3020.4	2964.2	2846.4	2601.2	2285.4	2256.3	2076.3	2142.0	2216.3	2407.2
52.5°	3196.3	3205.3	3142.6	3084.0	2912.0	2527.5	2476.4	2306.5	2448.3	2571.2	2820.8
55°	3360.3	3360.7	3343.1	3335.1	3237.9	2795.3	2739.1	2583.2	2808.8	2961.2	3303.1
57.5°	3514.1	3515.1	3541.2	3611.9	3615.9	3104.0	3040.4	2923.1	3209.3	3364.8	3800.4
60°	3651.5	3658.5	3729.7	3895.1	3948.2	3457.9	3397.8	3324.6	3623.4	3779.8	4323.2
62.5°	3697.6	3723.1	3881.6	4116.7	4276.6	3892.1	3833.0	3789.3	4058.5	4203.9	4760.3
65°	3619.4	3678.0	3984.4	4299.7	4614.4	4407.9	4349.3	4301.6	4510.7	4647.6	5119.3
67.5°	3427.4	3503.0	3978.3	4491.7	5024.5	5028.5	4973.9	4862.1	4995.4	5048.1	5236.1
70°	2921.6	3034.8	3627.9	4563.3	5495.2	5877.2	5824.6	5536.8	5479.2	5224.5	4907.2
72.5°	1882.4	2034.7	2671.5	3973.3	5600.0	6675.8	6672.9	6145.9	5632.1	4881.7	3935.7
75°	686.7	780.0	1241.2	2493.9	4700.6	6635.2	6654.7	6041.7	5141.3	3770.8	2451.9
77.5°	250.1	273.7	405.1	958.5	2891.0	5323.8	5364.4	4830.0	3659.5	1892.5	971.5
80°	131.3	144.4	207.6	372.0	1238.7	3161.7	3225.4	2870.4	1720.0	570.0	291.3
82.5°	72.7	78.7	116.3	202.0	557.9	1352.0	1390.1	1134.0	605.1	241.6	120.3
85°	39.1	41.6	54.6	110.3	272.8	468.7	479.3	338.9	241.1	141.9	58.1
87.5°	11.5	14.0	18.0	35.1	106.8	105.3	107.8	67.1	95.2	71.6	19.1
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°	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0	960.0
2.5°	964.5	963.0	957.5	955.0	951.9	951.5	954.0	954.5	955.0	955.5	957.5
5°	973.5	968.5	963.5	960.5	961.4	962.0	967.0	970.5	973.0	975.0	976.0
7.5°	991.1	987.1	978.6	978.1	979.5	984.1	990.6	998.6	1003.1	1006.7	1007.6
10°	1017.1	1009.6	999.6	1001.1	1004.1	1010.6	1024.2	1030.6	1038.2	1044.7	1043.2
12.5°	1043.8	1037.2	1025.6	1026.6	1031.7	1043.2	1056.3	1064.3	1069.3	1074.3	1076.2
15°	1078.3	1066.7	1054.2	1054.2	1063.2	1075.8	1081.8	1088.3	1091.3	1096.9	1098.8
17.5°	1113.9	1098.8	1082.3	1081.3	1092.3	1098.4	1101.9	1102.9	1103.8	1109.9	1111.9
20°	1149.4	1132.9	1109.4	1107.4	1109.9	1108.8	1108.3	1107.4	1108.8	1116.4	1119.4
22.5°	1184.6	1165.5	1132.9	1123.9	1116.9	1107.4	1106.9	1106.4	1107.4	1114.9	1119.9
25°	1225.7	1202.6	1159.0	1131.9	1108.3	1095.3	1096.9	1097.4	1098.4	1104.3	1112.4
27.5°	1270.3	1244.8	1183.1	1129.4	1086.8	1077.8	1075.3	1076.8	1080.4	1089.8	1099.3
30°	1314.9	1284.8	1205.1	1119.4	1059.7	1047.2	1039.1	1042.7	1053.7	1063.2	1073.8
32.5°	1355.6	1325.4	1222.6	1097.4	1025.2	1005.6	995.1	999.6	1010.6	1014.1	1026.6
35°	1403.1	1369.1	1230.2	1062.2	987.6	957.5	943.4	937.0	942.5	938.9	950.0
37.5°	1456.3	1420.6	1229.2	1016.2	943.4	908.9	889.3	864.8	853.2	841.2	848.7
40°	1534.9	1483.9	1217.2	960.5	888.8	857.2	822.2	780.5	754.5	730.9	732.4
42.5°	1642.3	1571.5	1195.1	899.3	827.2	797.6	750.0	701.3	660.2	621.2	617.6
45°	1802.2	1686.3	1167.6	834.1	760.4	731.4	679.8	625.1	578.5	528.4	522.3
47.5°	2032.8	1840.8	1141.4	759.9	690.3	663.7	617.0	566.5	511.4	462.7	457.2
50°	2349.6	2062.3	1117.4	687.8	621.2	601.1	564.0	512.3	456.6	417.6	415.1
52.5°	2752.6	2363.6	1107.4	618.1	556.5	548.9	519.4	471.2	418.6	385.5	383.0
55°	3215.3	2724.0	1107.4	551.4	499.8	502.4	481.7	437.2	391.5	361.9	359.0
57.5°	3687.5	3089.0	1087.3	489.7	451.7	462.2	449.2	410.1	369.0	338.4	333.3
60°	4122.7	3394.8	1006.1	433.6	409.1	425.6	417.1	383.5	333.3	307.8	303.8
62.5°	4457.0	3567.2	849.7	389.0	373.9	393.0	388.5	348.4	326.9	316.3	312.8
65°	4624.5	3539.2	649.6	349.4	344.4	373.9	364.5	363.0	345.9	333.8	329.8
67.5°	4521.7	3297.5	471.2	320.3	327.4	356.4	393.0	399.0	367.5	343.9	339.9
70°	4071.1	2860.5	351.0	292.7	305.8	356.9	448.1	417.6	360.4	332.8	328.3
72.5°	3097.0	2133.0	272.2	263.7	277.7	359.5	472.7	409.1	340.4	368.0	364.9
75°	1771.1	1171.1	218.5	228.1	242.6	335.9	460.2	387.0	324.8	337.8	337.8
77.5°	675.3	450.2	180.5	193.0	195.0	293.3	440.1	385.5	309.3	301.8	275.2
80°	234.1	176.0	149.3	153.4	150.9	260.7	422.1	335.4	253.2	226.6	219.0
82.5°	95.7	87.7	118.3	113.3	107.3	202.5	340.9	274.2	207.0	183.0	181.0
85°	41.6	55.7	78.2	68.7	62.1	140.3	273.2	232.1	175.0	150.9	150.4
87.5°	8.5	21.0	33.1	31.1	32.1	93.8	194.0	164.9	123.8	92.8	72.7
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)