

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: P960345

Luminaire Tested: **NAV-SB1C-735-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960345
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-735-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7611.6 lumens
Efficiency: N/A
Efficacy: 139.9 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

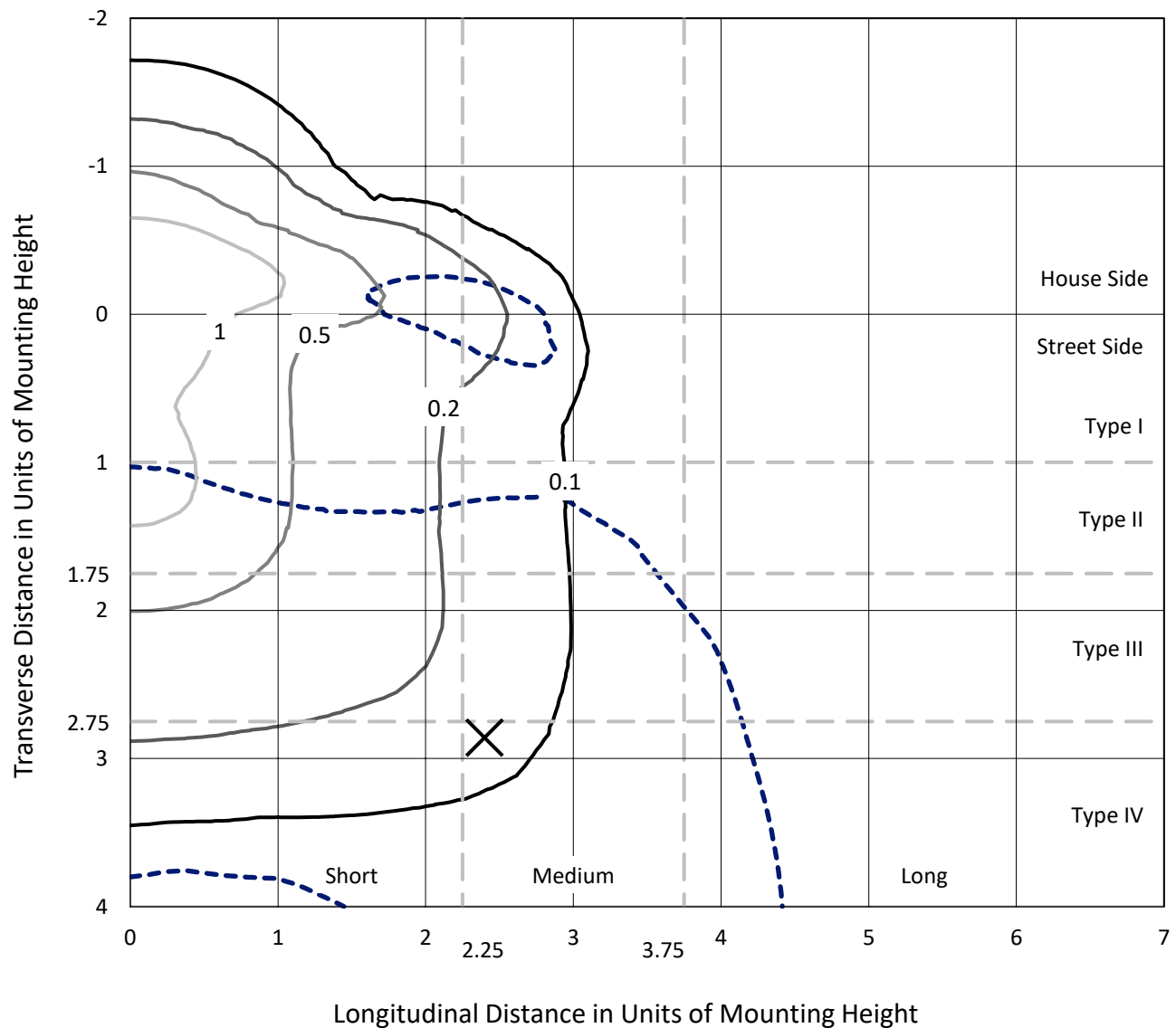
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

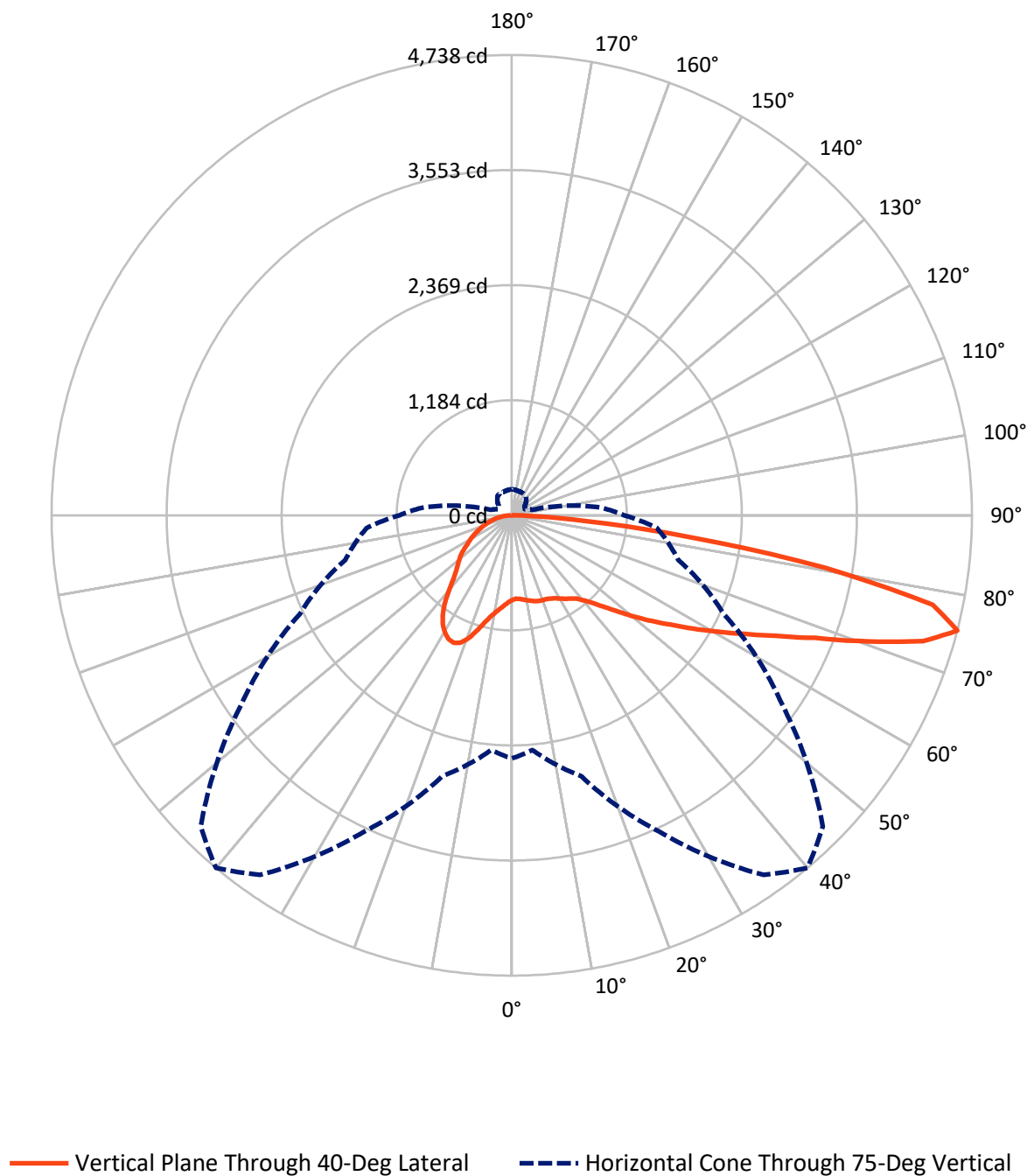
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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	2358.3	0.0	2358.3
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	5253.3	0.0	5253.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	7611.6	0.0	7611.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	1.1
10°-20°	291.7	3.8
20°-30°	532.6	7.0
30°-40°	755.4	9.9
40°-50°	1020.0	13.4
50°-60°	1372.2	18.0
60°-70°	1741.7	22.9
70°-80°	1580.7	20.8
80°-90°	230.4	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°	7611.6	100.0
0°-180°	7611.6	100.0

Coefficient of Utilization



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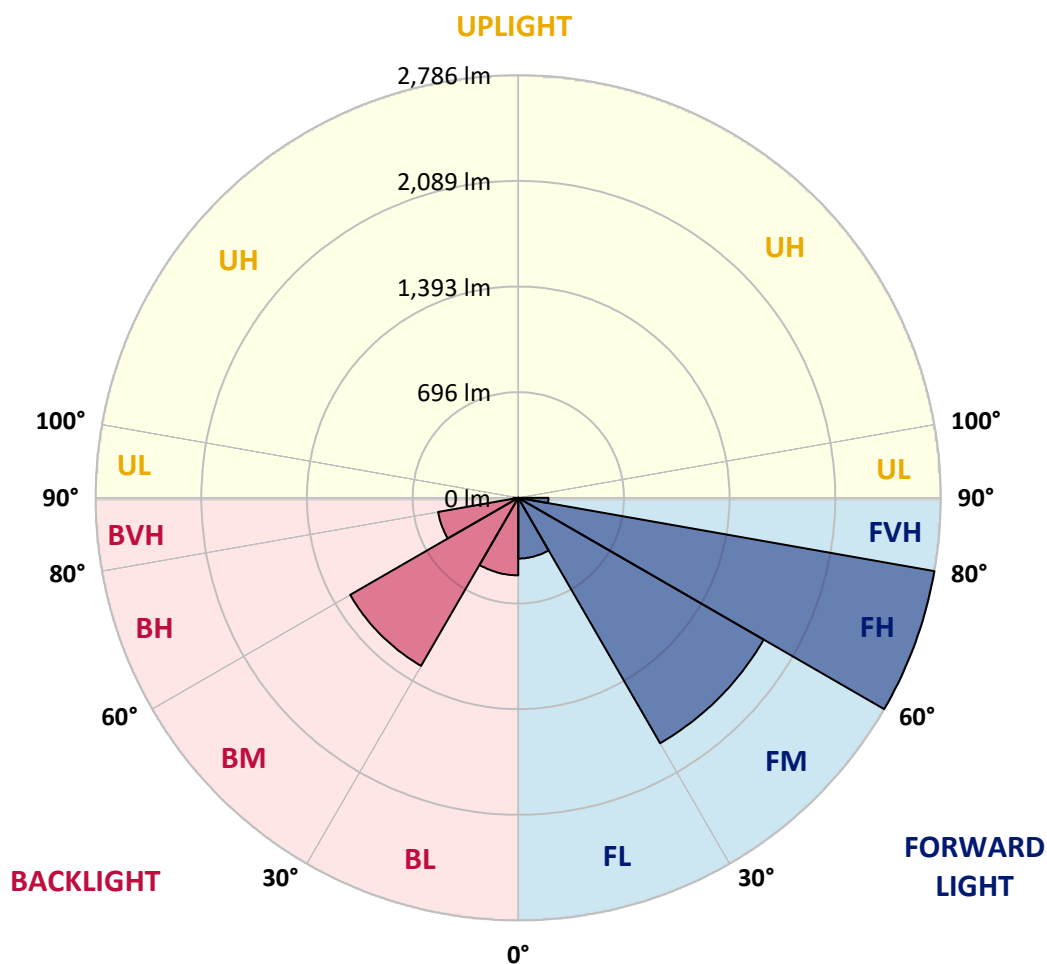
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	400.4	5.3			
FM	(30°-60°)	1868.5	24.5			
FH	(60°-80°)	2785.7	36.6			G2/5000
FVH	(80°-90°)	198.7	2.6			G2/225
BL	(0°-30°)	510.8	6.7	B2/1000		
BM	(30°-60°)	1279.2	16.8	B2/2500		
BH	(60°-80°)	536.6	7.0	B2/1000		G2/1000
BVH	(80°-90°)	31.7	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	870.4	870.4	870.4	870.4	870.4	870.4	870.4	870.4	870.4	870.4	870.4
2.5°	857.1	861.9	860.7	859.1	859.1	859.5	859.1	861.9	864.8	867.6	872.0
5°	865.9	870.8	868.4	866.3	864.8	864.4	863.2	862.7	864.4	868.0	874.0
7.5°	883.3	888.2	884.6	880.9	877.7	876.1	874.4	872.0	870.8	872.8	881.3
10°	902.7	907.5	903.1	896.7	891.4	889.4	887.8	885.3	883.8	885.0	894.2
12.5°	922.1	926.9	920.9	911.9	905.1	903.9	901.9	901.1	900.7	900.3	909.6
15°	940.2	944.3	936.6	926.1	918.8	916.9	914.8	916.0	918.0	920.4	931.0
17.5°	954.4	958.4	947.1	933.4	926.5	925.7	924.6	928.5	934.2	940.2	953.1
20°	967.3	971.3	956.8	938.2	930.2	930.2	930.6	939.0	947.1	956.0	973.7
22.5°	985.4	988.7	970.9	945.5	933.8	934.6	937.8	946.3	956.4	968.5	993.1
25°	1012.5	1015.0	993.1	959.2	945.9	948.3	951.1	955.2	964.8	979.0	1012.1
27.5°	1056.2	1058.1	1029.5	983.5	963.3	967.3	971.3	968.5	972.9	985.0	1027.5
30°	1117.5	1118.7	1082.4	1021.4	992.7	994.8	995.6	983.8	975.4	985.0	1038.3
32.5°	1190.1	1189.7	1146.6	1067.4	1026.2	1024.2	1017.3	994.4	974.6	983.1	1048.1
35°	1302.8	1298.4	1242.6	1132.0	1064.2	1051.6	1035.6	1006.0	978.6	981.0	1056.5
37.5°	1489.3	1475.6	1398.4	1237.8	1120.7	1088.9	1065.0	1025.0	987.5	980.2	1066.6
40°	1699.7	1682.2	1597.5	1382.7	1205.5	1154.3	1115.8	1052.1	1002.0	983.8	1081.6
42.5°	1949.1	1924.5	1833.2	1553.5	1312.8	1238.6	1180.9	1086.4	1023.4	995.6	1101.8
45°	2255.5	2222.8	2093.7	1746.1	1448.1	1349.2	1272.1	1138.5	1056.2	1018.1	1132.0
47.5°	2565.2	2573.3	2389.6	1966.5	1610.4	1485.6	1386.3	1216.8	1103.7	1054.5	1180.9
50°	2894.2	2899.8	2683.9	2210.7	1794.5	1639.9	1514.7	1304.4	1169.9	1106.2	1253.9
52.5°	3151.0	3151.8	2951.2	2466.3	1986.2	1809.4	1653.2	1404.6	1246.7	1174.8	1351.3
55°	3311.7	3309.6	3138.4	2708.0	2206.7	1987.5	1806.6	1518.3	1340.3	1255.5	1473.5
57.5°	3428.3	3422.3	3267.6	2916.0	2441.7	2197.8	1980.2	1647.6	1451.0	1351.7	1634.7
60°	3472.7	3469.1	3355.2	3095.7	2688.7	2430.4	2180.5	1792.1	1576.4	1465.0	1841.7
62.5°	3489.7	3496.6	3441.2	3269.6	2953.1	2688.0	2400.4	1964.8	1717.8	1593.5	2060.1
65°	3549.5	3562.0	3550.6	3497.4	3251.9	2989.5	2692.4	2170.3	1872.1	1731.1	2288.2
67.5°	3667.8	3680.3	3685.1	3769.8	3616.8	3365.4	3056.5	2426.3	2052.5	1874.0	2459.8
70°	3664.9	3661.3	3746.9	3986.6	4073.9	3885.8	3547.4	2741.2	2267.6	1992.7	2481.6
72.5°	3335.9	3306.8	3509.1	3984.3	4454.1	4429.1	4146.9	3147.4	2453.3	2007.3	2153.4
75°	2502.6	2425.0	2782.4	3590.6	4517.5	4737.5	4528.0	3399.2	2409.4	1773.5	1498.6
77.5°	1070.2	992.3	1413.4	2658.0	4043.2	4428.7	4178.4	2965.6	1923.3	1172.8	735.9
80°	280.1	279.7	427.1	1205.1	2749.7	3270.5	2869.2	1915.2	1098.9	419.0	203.1
82.5°	115.8	113.1	157.0	468.7	1343.6	1835.3	1497.7	854.2	396.9	113.5	67.4
85°	43.2	42.7	76.3	161.8	474.0	757.0	547.9	218.4	98.9	55.4	30.2
87.5°	12.1	11.7	16.5	56.1	115.4	175.2	93.7	36.0	27.9	21.8	8.9
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°	870.4	870.4	870.4	870.4	870.4	870.4	870.4	870.4	870.4	870.4	870.4
2.5°	873.2	875.2	878.8	881.7	885.3	889.4	895.0	898.6	902.3	904.8	903.1
5°	876.9	881.3	890.6	899.8	910.8	920.9	932.5	941.1	947.9	950.0	950.8
7.5°	885.0	892.2	907.9	923.7	941.1	957.6	974.6	989.1	1000.8	1005.2	1005.6
10°	899.0	908.8	931.0	953.1	976.2	1001.6	1023.4	1044.4	1061.0	1067.8	1068.3
12.5°	916.9	929.0	958.0	988.7	1020.6	1055.8	1083.9	1109.8	1130.4	1139.7	1139.7
15°	939.8	955.6	992.7	1033.9	1080.8	1129.6	1165.5	1194.2	1217.2	1228.5	1227.6
17.5°	964.8	985.8	1032.7	1094.9	1161.8	1226.1	1268.0	1289.0	1312.8	1323.8	1323.4
20°	989.1	1015.0	1082.0	1172.4	1261.6	1329.8	1363.8	1369.4	1371.0	1372.2	1375.4
22.5°	1014.1	1048.9	1143.7	1270.1	1365.7	1413.0	1417.9	1393.6	1359.7	1344.0	1348.4
25°	1041.6	1087.6	1224.5	1377.9	1455.4	1461.0	1423.9	1365.0	1300.7	1271.3	1275.7
27.5°	1068.3	1132.4	1321.3	1480.8	1520.0	1470.4	1390.4	1306.8	1229.3	1198.2	1201.8
30°	1094.9	1183.7	1428.3	1570.8	1549.5	1447.3	1337.5	1244.2	1166.3	1133.6	1137.2
32.5°	1122.0	1243.4	1551.4	1635.8	1544.2	1398.4	1271.7	1174.0	1105.4	1071.0	1075.5
35°	1152.6	1316.9	1668.2	1671.4	1509.1	1326.6	1184.9	1090.0	1030.2	1002.9	1008.9
37.5°	1192.6	1410.2	1771.1	1680.3	1447.7	1221.2	1077.1	990.7	941.5	929.0	937.8
40°	1242.2	1522.4	1849.8	1666.1	1356.9	1093.3	959.2	890.2	862.3	865.2	874.8
42.5°	1306.8	1648.0	1905.1	1629.7	1230.5	961.2	855.9	825.2	838.6	849.8	860.3
45°	1390.8	1778.4	1939.4	1568.0	1087.6	849.4	794.9	802.2	812.3	813.4	821.5
47.5°	1498.1	1910.4	1962.1	1474.8	941.9	770.7	756.1	757.8	755.7	747.2	753.7
50°	1632.2	2038.7	1982.2	1351.3	817.9	721.4	702.0	696.4	668.5	641.1	644.7
52.5°	1784.8	2156.6	1990.7	1197.8	721.4	680.3	648.7	613.3	561.2	552.7	555.6
55°	1954.4	2265.7	1968.9	1009.3	640.3	627.4	579.7	536.9	531.3	524.0	525.2
57.5°	2157.0	2383.1	1924.5	799.0	557.1	565.6	519.2	524.0	513.9	502.7	500.6
60°	2378.7	2504.6	1846.5	607.2	471.1	488.5	503.4	503.1	500.2	490.9	487.7
62.5°	2578.1	2584.5	1693.2	465.0	395.6	428.8	469.6	469.1	466.7	461.5	459.4
65°	2696.8	2572.4	1437.3	366.1	333.4	379.5	423.5	426.7	427.1	426.7	426.7
67.5°	2675.8	2430.8	1086.0	291.5	282.2	329.4	377.9	382.3	385.5	386.3	387.1
70°	2438.4	2119.5	708.1	232.6	236.6	285.5	334.7	339.1	341.9	345.2	346.8
72.5°	1900.7	1558.3	405.3	188.1	196.6	247.4	291.9	297.1	298.8	304.8	307.2
75°	1158.2	916.5	218.8	148.1	161.4	211.6	249.5	255.5	258.4	265.7	266.5
77.5°	550.6	396.9	124.7	115.4	130.0	172.8	210.7	217.6	209.9	213.9	210.7
80°	186.1	147.4	78.7	88.0	99.3	134.9	168.7	175.6	159.5	158.7	157.0
82.5°	65.0	59.8	50.0	58.5	64.2	96.5	127.6	136.4	118.7	118.3	112.6
85°	25.4	24.2	27.9	31.9	38.3	59.3	83.9	88.5	73.1	58.9	58.1
87.5°	5.2	5.6	6.9	7.3	11.7	20.6	30.2	37.1	29.5	25.0	23.1
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)