

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: P882399

Luminaire Tested: **NAV-SB2B-730-U-T3**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P882399  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-730-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

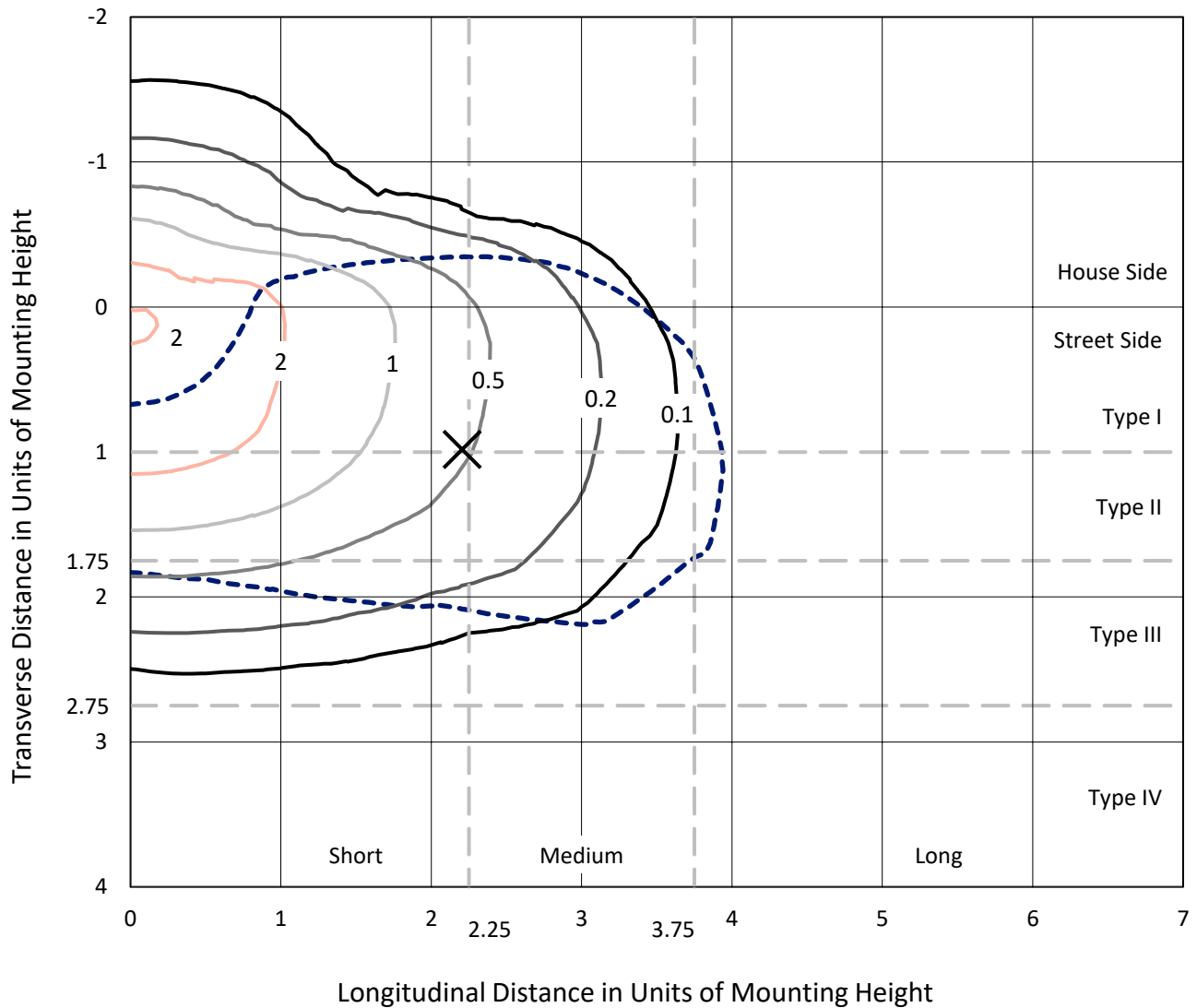
Lumens per Lamp: N/A  
Luminaire Lumens: 11305 lumens  
Efficiency: N/A  
Efficacy: 153.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): 120.0  
Input Current (Ain): 0.627  
Voltage Rise (V): NR  
Power Factor: 0.988  
Total Harmonic Distortion (THDi): 13.593  
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

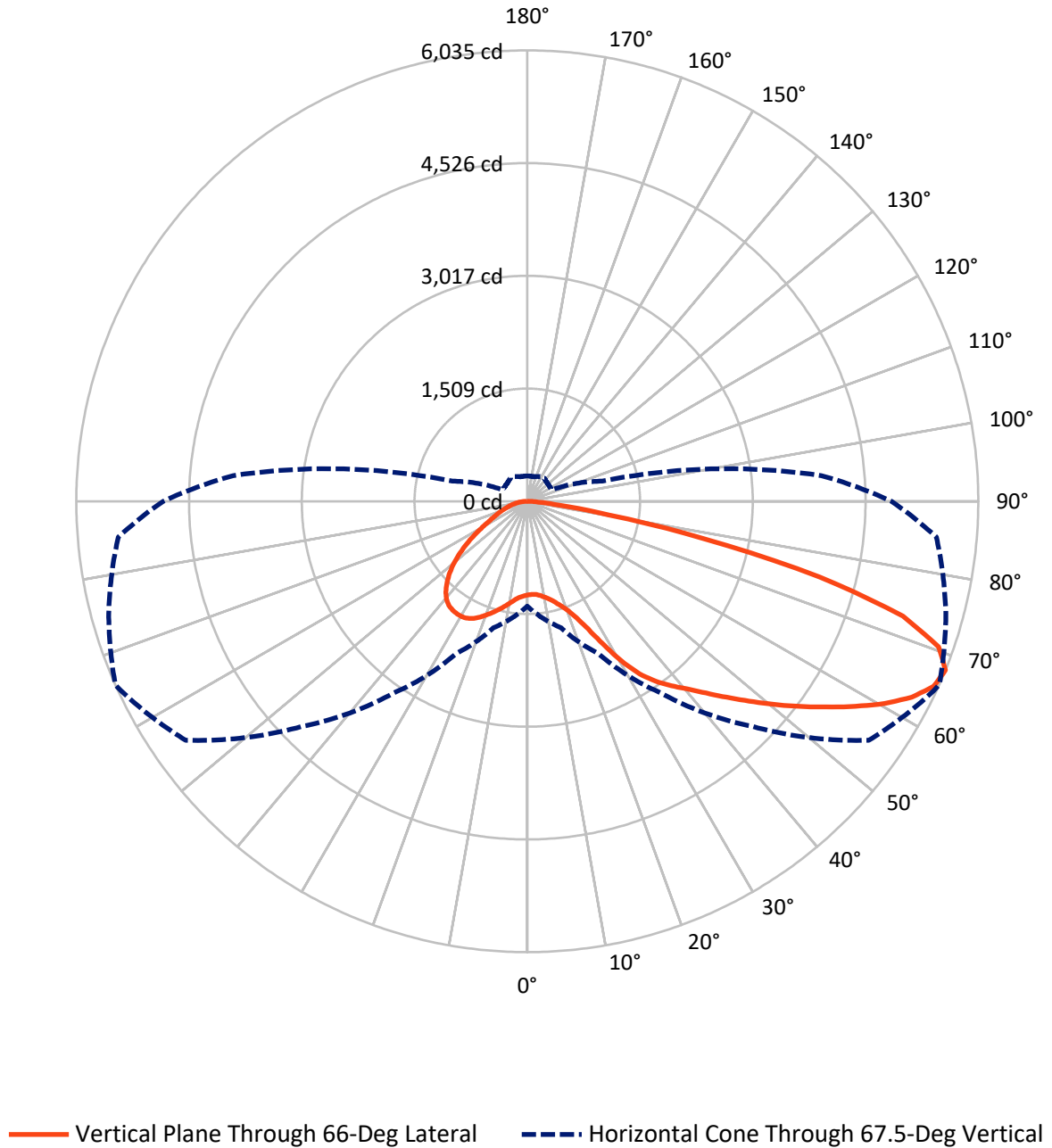
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2811.0	0.0	2811.0
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	8494.1	0.0	8494.1
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	11305.0	0.0	11305.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	124.3	1.1
10°-20°	410.7	3.6
20°-30°	791.7	7.0
30°-40°	1388.1	12.3
40°-50°	2063.6	18.3
50°-60°	2615.8	23.1
60°-70°	2559.5	22.6
70°-80°	1220.9	10.8
80°-90°	130.5	1.2
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°	11305.0	100.0
0°-180°	11305.0	100.0

**Coefficient of Utilization**



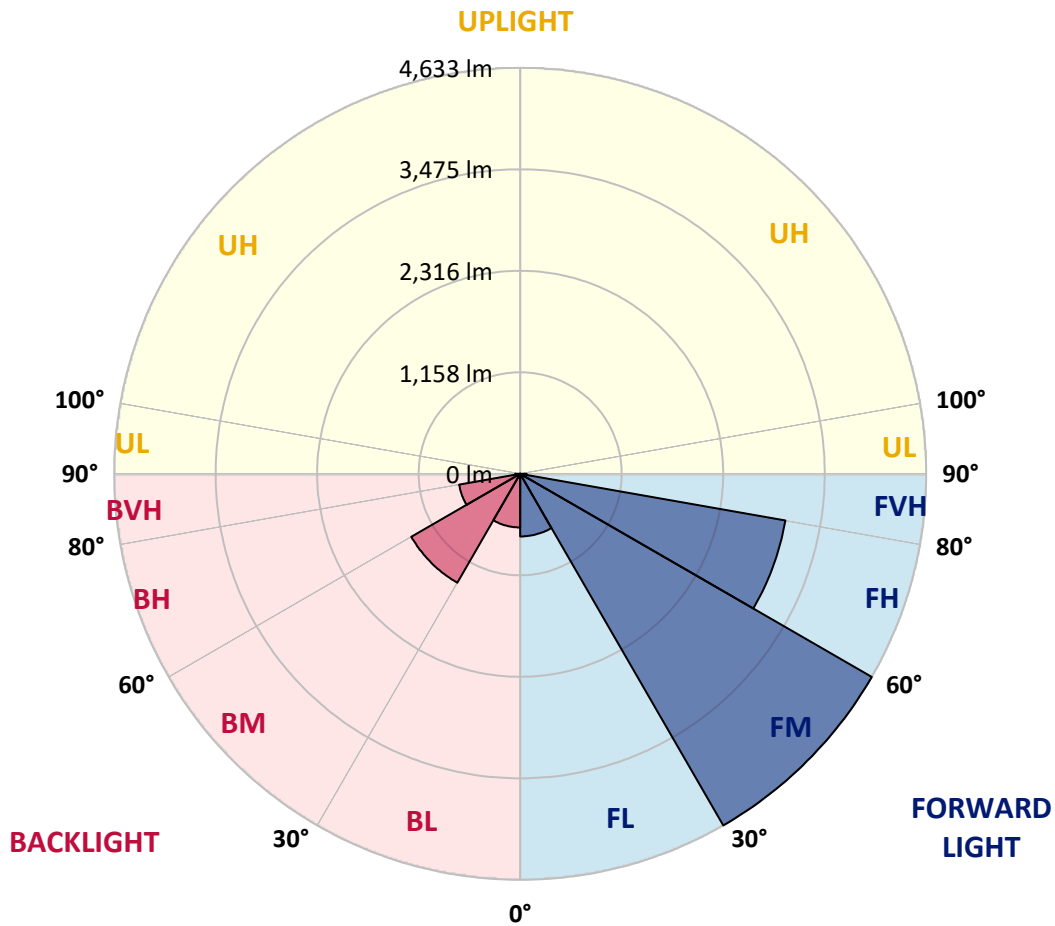
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	714.4	6.3			
FM (30°-60°)	4632.7	41.0			
FH (60°-80°)	3073.0	27.2			G2/5000
FVH (80°-90°)	74.0	0.7			G1/100
BL (0°-30°)	612.3	5.4	B2/1000		
BM (30°-60°)	1434.7	12.7	B2/2500		
BH (60°-80°)	707.4	6.3	B2/1000		G2/1000
BVH (80°-90°)	56.5	0.5			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 III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9
2.5°	1240.8	1247.9	1246.2	1243.2	1242.6	1243.8	1245.6	1247.3	1246.7	1249.7	1254.5
5°	1237.2	1244.4	1243.8	1243.8	1246.2	1250.9	1253.9	1256.8	1253.9	1257.4	1264.0
7.5°	1239.6	1245.0	1247.3	1249.7	1255.7	1264.6	1271.7	1278.2	1274.7	1278.8	1287.1
10°	1269.9	1274.1	1276.4	1276.4	1280.6	1290.7	1297.8	1309.7	1306.7	1313.3	1324.0
12.5°	1325.2	1329.3	1329.3	1326.9	1329.9	1336.4	1338.8	1351.9	1346.5	1357.2	1367.9
15°	1392.9	1401.2	1394.6	1390.5	1391.7	1398.2	1397.6	1407.7	1402.4	1411.3	1420.8
17.5°	1467.7	1478.4	1467.7	1467.1	1464.7	1471.9	1472.5	1481.4	1471.9	1478.4	1484.9
20°	1556.2	1571.1	1562.1	1565.1	1559.8	1562.7	1565.7	1578.8	1563.9	1568.7	1566.9
22.5°	1680.9	1698.8	1689.3	1700.5	1697.0	1694.6	1694.0	1717.2	1694.0	1695.8	1678.6
25°	1862.7	1884.1	1867.4	1882.9	1882.9	1890.6	1899.5	1929.2	1890.6	1879.3	1834.8
27.5°	2131.2	2152.6	2119.9	2129.4	2126.4	2145.4	2135.9	2209.6	2168.0	2149.6	2059.9
30°	2454.3	2492.3	2430.5	2428.2	2425.2	2455.5	2469.1	2517.8	2475.7	2457.3	2349.2
32.5°	2803.5	2843.3	2769.7	2748.3	2737.0	2755.4	2744.1	2783.4	2754.2	2725.7	2592.1
35°	3173.0	3212.2	3142.1	3100.5	3055.4	3016.8	2976.4	2986.5	2959.2	2915.8	2777.4
37.5°	3522.3	3594.1	3519.9	3475.3	3392.2	3316.7	3203.9	3157.0	3131.4	3091.6	2952.0
40°	3878.0	3919.0	3862.6	3824.6	3734.3	3616.1	3435.5	3336.3	3301.9	3263.3	3145.1
42.5°	4140.0	4179.2	4148.9	4122.8	4052.1	3914.9	3681.4	3557.3	3507.4	3464.0	3363.7
45°	4347.9	4377.0	4358.0	4367.5	4337.2	4204.1	3936.2	3794.3	3742.6	3689.8	3610.8
47.5°	4431.6	4462.5	4492.8	4549.2	4600.9	4502.9	4210.1	4050.9	3996.2	3942.2	3864.4
50°	4422.1	4453.6	4541.5	4661.5	4821.9	4789.2	4498.7	4324.1	4273.6	4211.9	4140.0
52.5°	4346.1	4381.7	4494.6	4694.2	4949.6	5003.6	4792.8	4606.2	4558.7	4485.1	4413.2
55°	4146.5	4167.9	4337.2	4619.9	4979.9	5153.3	5080.8	4906.8	4859.3	4756.5	4678.1
57.5°	3776.5	3807.4	4053.9	4419.7	4903.8	5254.9	5333.9	5222.8	5177.1	5029.2	4947.2
60°	3293.6	3342.9	3625.0	4083.6	4710.2	5254.3	5563.7	5533.4	5495.4	5297.6	5212.1
62.5°	2747.1	2804.1	3075.6	3608.4	4371.6	5105.2	5707.5	5793.6	5774.0	5545.3	5436.0
65°	2109.8	2149.0	2419.2	2993.6	3844.8	4785.0	5724.1	5971.2	5974.8	5733.6	5553.0
67.5°	1404.7	1517.6	1752.2	2246.4	3139.1	4261.7	5578.0	6000.3	6034.8	5798.4	5494.2
70°	685.4	833.9	1063.8	1460.0	2246.4	3459.3	5196.1	5761.5	5838.1	5609.5	5143.8
72.5°	284.5	332.6	458.0	720.5	1289.5	2334.3	4428.7	5114.1	5256.1	4970.4	4324.7
75°	191.9	207.9	261.9	369.5	587.4	1151.1	3193.8	3813.3	4042.0	3753.9	3068.5
77.5°	147.9	158.0	190.7	258.4	349.3	435.4	1709.5	2298.1	2416.3	2236.9	1596.6
80°	116.4	124.1	142.6	188.3	247.7	232.8	582.7	1041.2	1109.5	930.8	513.2
82.5°	101.0	103.9	102.2	127.7	164.5	136.0	191.3	384.3	424.1	307.7	167.5
85°	73.1	81.4	84.9	79.0	87.3	68.9	78.4	136.0	149.7	133.6	94.4
87.5°	29.7	44.0	54.1	51.1	32.1	19.6	24.4	39.8	45.7	49.9	30.9
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°	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9	1253.9
2.5°	1255.1	1259.2	1262.2	1265.8	1268.1	1271.7	1278.8	1283.0	1283.6	1286.5	1285.9
5°	1266.3	1272.3	1278.8	1288.3	1299.0	1307.9	1321.6	1331.1	1334.7	1337.6	1337.0
7.5°	1290.7	1299.0	1310.9	1327.5	1343.0	1354.8	1371.5	1382.8	1394.1	1398.2	1398.8
10°	1326.9	1338.8	1356.0	1378.6	1395.2	1410.7	1427.9	1437.4	1448.7	1453.4	1455.8
12.5°	1372.1	1384.5	1407.1	1438.6	1454.0	1464.7	1470.7	1468.3	1470.7	1474.8	1476.0
15°	1423.7	1437.4	1463.0	1496.8	1507.5	1498.0	1484.9	1473.0	1471.3	1472.5	1476.6
17.5°	1484.9	1495.0	1524.7	1553.2	1545.5	1506.3	1477.8	1458.8	1449.3	1446.3	1450.5
20°	1570.5	1570.5	1594.8	1612.6	1561.0	1494.4	1449.9	1419.0	1399.4	1391.1	1389.3
22.5°	1674.4	1664.9	1680.3	1667.9	1558.0	1461.2	1399.4	1345.9	1316.2	1304.4	1302.6
25°	1806.3	1795.0	1790.8	1713.6	1536.6	1408.3	1307.9	1243.2	1217.0	1210.5	1211.7
27.5°	2005.2	1976.7	1922.7	1738.6	1497.4	1325.2	1201.0	1141.0	1126.2	1126.8	1128.5
30°	2270.2	2213.1	2080.7	1742.7	1433.3	1207.5	1091.7	1049.0	1041.8	1044.8	1054.9
32.5°	2515.5	2461.4	2242.2	1723.7	1334.7	1092.3	993.7	965.2	954.5	958.1	962.8
35°	2707.9	2693.1	2391.9	1697.0	1213.5	984.2	905.8	881.5	860.7	855.9	859.5
37.5°	2889.7	2883.7	2504.2	1659.6	1093.5	907.6	835.1	803.0	772.8	756.1	756.7
40°	3089.2	3083.3	2577.8	1601.9	987.2	841.1	771.6	729.4	692.0	661.7	664.7
42.5°	3313.8	3278.7	2612.9	1519.4	896.9	784.6	719.9	662.9	613.6	585.7	587.4
45°	3559.1	3480.1	2612.3	1414.2	820.9	733.0	664.7	583.9	538.1	512.0	510.8
47.5°	3819.2	3672.5	2580.2	1297.8	747.2	675.9	579.1	517.3	487.1	471.0	467.5
50°	4087.7	3852.5	2525.6	1164.2	671.8	611.2	525.7	483.5	460.3	445.5	440.1
52.5°	4340.1	4015.8	2459.6	1012.7	595.2	548.2	501.9	469.2	444.9	428.3	421.1
55°	4574.8	4156.6	2366.4	857.7	532.8	506.1	490.6	463.3	435.4	415.8	408.1
57.5°	4783.3	4248.1	2205.4	712.2	488.2	477.0	478.7	453.2	421.1	404.5	393.8
60°	4956.7	4315.2	1967.2	577.3	452.0	448.4	460.3	434.2	396.8	377.8	369.5
62.5°	5060.6	4314.0	1675.0	472.8	421.1	422.3	436.0	410.4	372.4	354.6	349.3
65°	5051.7	4208.3	1354.3	404.5	391.4	392.6	410.4	384.3	352.2	341.5	340.9
67.5°	4872.9	3950.5	1038.9	359.9	358.8	364.1	384.9	366.5	339.8	338.6	340.3
70°	4388.9	3415.3	748.4	324.3	324.9	332.6	359.9	355.2	333.2	335.6	335.0
72.5°	3519.3	2604.0	502.5	286.9	287.5	300.0	336.2	346.3	326.7	358.2	362.9
75°	2343.8	1623.9	323.1	247.1	247.7	263.7	315.4	329.1	308.9	357.0	359.9
77.5°	1126.2	730.0	234.0	207.9	207.9	222.7	272.6	294.6	263.1	277.4	254.2
80°	389.1	274.4	184.1	167.5	163.9	174.0	229.9	255.4	226.9	209.1	196.0
82.5°	153.2	142.6	147.9	130.1	118.2	124.7	178.8	210.9	166.9	150.9	150.3
85°	87.9	92.7	104.5	86.1	68.3	76.6	131.3	151.5	125.9	111.1	113.4
87.5°	23.8	32.7	48.1	44.5	30.9	32.7	62.4	83.7	72.5	55.8	57.6
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)