

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: P963424

Luminaire Tested: **NAV-SB3A-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P963424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB3A-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

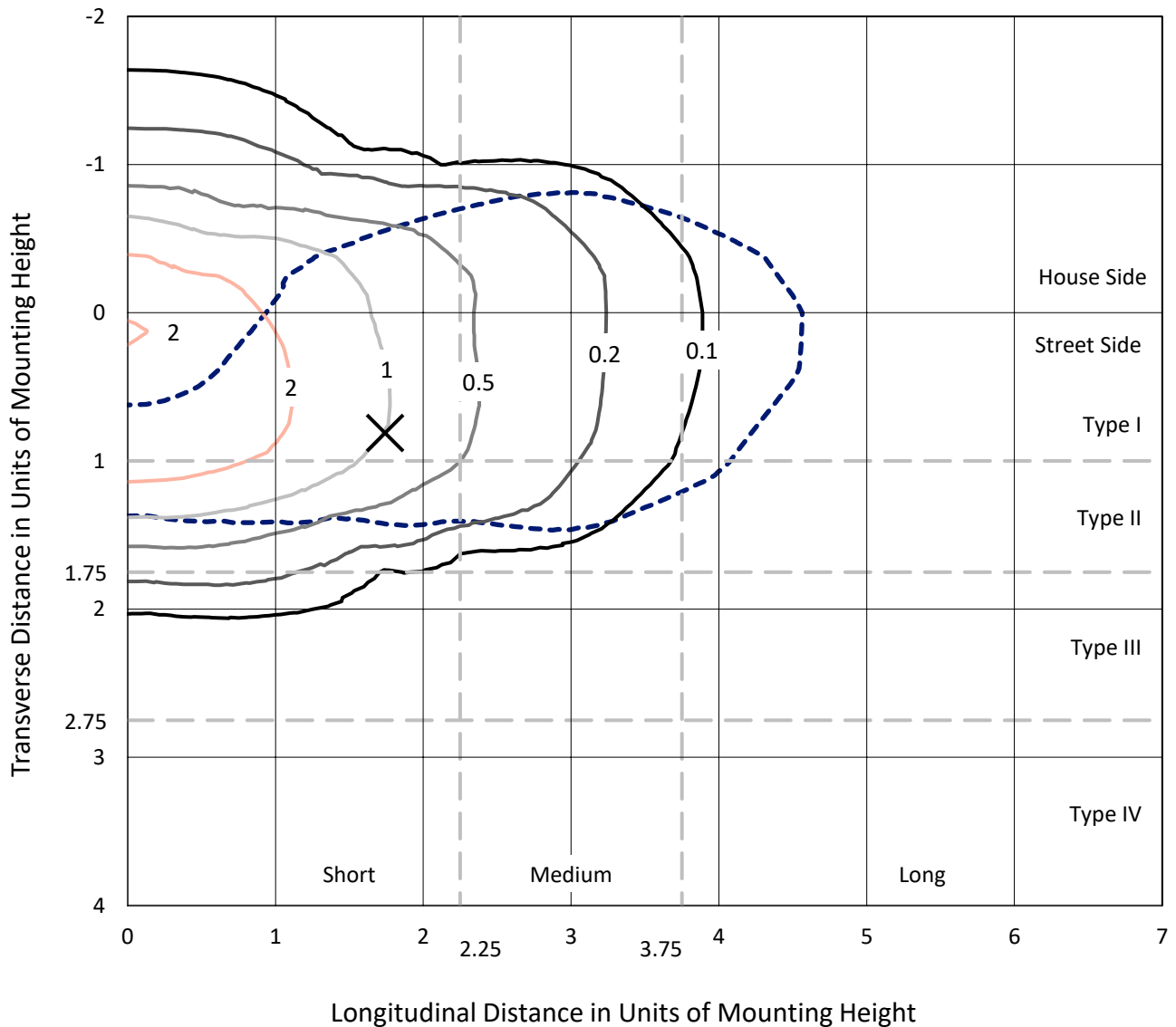
Lumens per Lamp: N/A  
Luminaire Lumens: 11548.7 lumens  
Efficiency: N/A  
Efficacy: 136.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 84.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

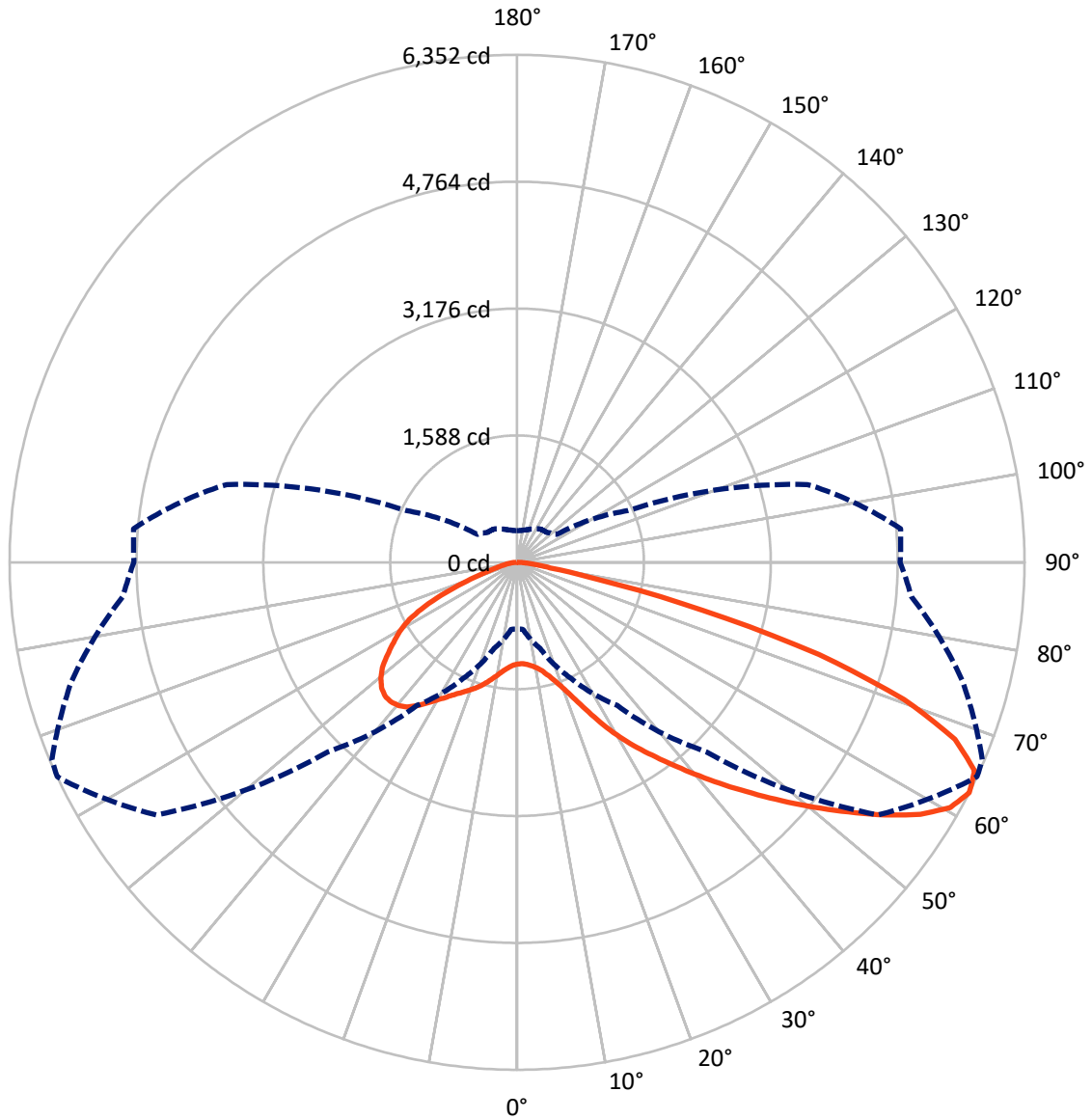
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral      - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3644.3	0.0	3644.3
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	7904.4	0.0	7904.4
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	11548.7	0.0	11548.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	126.9	1.1
10°-20°	430.3	3.7
20°-30°	872.4	7.6
30°-40°	1509.7	13.1
40°-50°	2284.6	19.8
50°-60°	2678.5	23.2
60°-70°	2245.6	19.4
70°-80°	1239.8	10.7
80°-90°	161.0	1.4
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°	11548.7	100.0
0°-180°	11548.7	100.0

**Coefficient of Utilization**



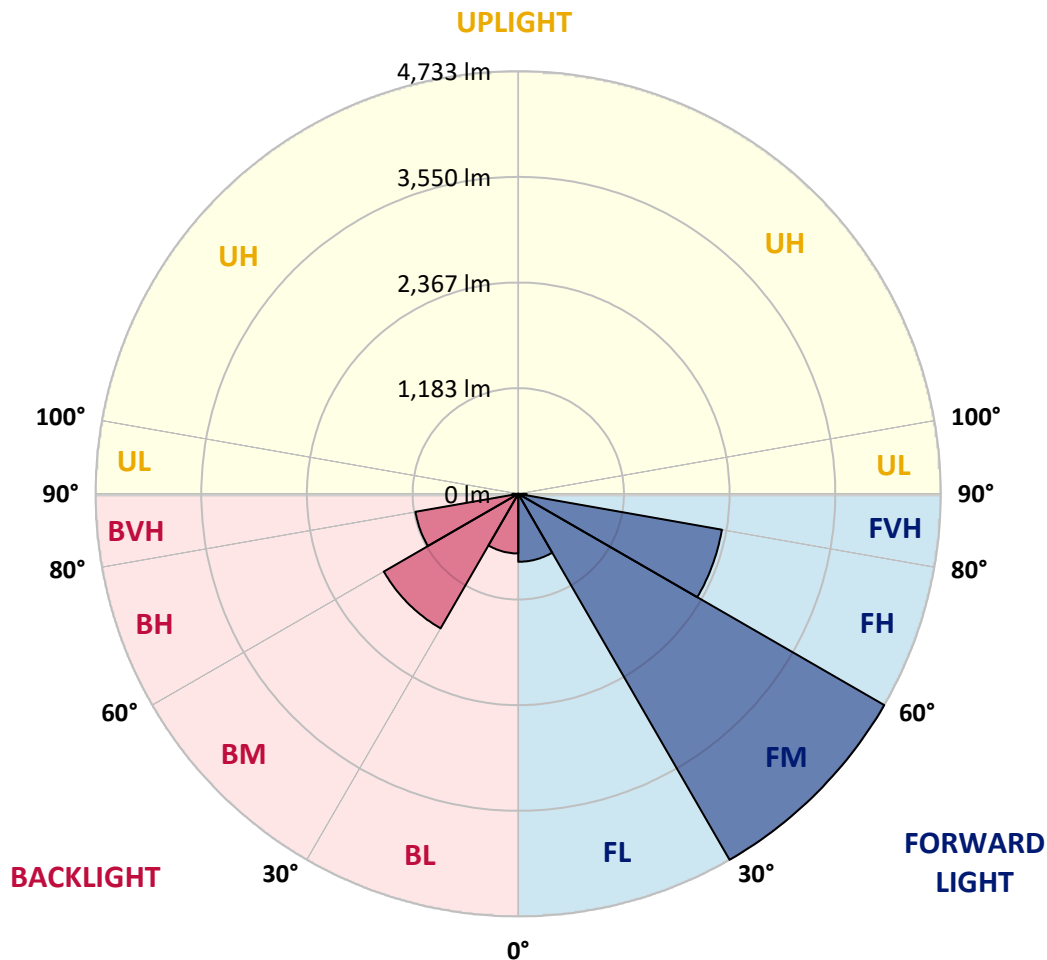
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	761.2	6.6			
FM (30°-60°)	4733.0	41.0			
FH (60°-80°)	2316.3	20.1			G2/5000
FVH (80°-90°)	93.9	0.8			G1/100
BL (0°-30°)	668.3	5.8	B2/1000		
BM (30°-60°)	1739.7	15.1	B2/2500		
BH (60°-80°)	1169.0	10.1	B3/2500		G3/2500
BVH (80°-90°)	67.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6
2.5°	1264.2	1260.6	1263.6	1263.6	1264.8	1264.2	1268.4	1269.7	1271.4	1275.0	1275.0
5°	1251.6	1251.0	1256.4	1261.3	1266.0	1270.2	1275.6	1283.4	1284.6	1288.8	1294.2
7.5°	1247.4	1243.8	1252.2	1258.2	1269.7	1279.8	1294.2	1307.4	1312.7	1314.6	1324.7
10°	1279.8	1273.8	1281.6	1285.1	1294.8	1304.9	1321.7	1342.7	1348.7	1355.9	1367.2
12.5°	1335.0	1328.3	1339.7	1345.1	1354.1	1363.0	1374.4	1394.8	1397.8	1411.0	1421.8
15°	1410.4	1402.6	1409.8	1416.4	1431.4	1439.8	1451.2	1471.0	1471.0	1481.1	1488.9
17.5°	1512.9	1502.6	1508.1	1510.4	1520.1	1532.7	1551.8	1569.2	1578.2	1574.6	1563.8
20°	1665.6	1653.1	1653.1	1641.1	1637.5	1647.7	1672.9	1696.8	1706.4	1687.9	1661.4
22.5°	1895.1	1877.2	1866.9	1826.2	1810.0	1811.3	1836.4	1865.8	1873.6	1840.6	1781.3
25°	2186.9	2158.8	2145.0	2085.1	2048.6	2016.8	2036.6	2074.3	2085.1	2044.4	1948.4
27.5°	2478.8	2480.5	2467.4	2395.4	2335.0	2276.8	2266.6	2306.1	2317.5	2271.4	2152.8
30°	2887.9	2845.4	2820.3	2734.0	2647.7	2566.2	2524.3	2540.5	2543.4	2488.3	2350.5
32.5°	3240.8	3230.1	3176.2	3100.6	2989.8	2862.2	2792.1	2766.3	2761.6	2683.0	2519.4
35°	3642.8	3636.9	3580.0	3490.1	3370.3	3192.9	3066.5	2992.8	2986.8	2876.6	2686.6
37.5°	4051.5	4051.5	3995.8	3897.6	3773.5	3551.8	3359.4	3242.7	3223.5	3079.7	2856.8
40°	4377.5	4357.7	4367.8	4326.5	4184.6	3949.0	3684.9	3515.2	3489.5	3316.9	3037.7
42.5°	4562.6	4556.0	4617.1	4663.2	4605.1	4417.0	4043.1	3810.6	3774.7	3578.2	3246.3
45°	4603.9	4596.7	4705.8	4874.8	4956.3	4879.0	4432.6	4121.6	4077.9	3851.4	3469.7
47.5°	4508.7	4494.3	4654.2	4920.9	5182.1	5318.1	4854.4	4459.0	4395.4	4117.4	3699.2
50°	4222.3	4208.4	4450.5	4804.7	5258.2	5616.5	5312.2	4816.7	4719.6	4402.6	3931.1
52.5°	3599.7	3606.4	3985.6	4472.1	5158.2	5802.2	5706.4	5193.5	5076.7	4694.4	4148.6
55°	2804.1	2818.4	3284.6	3820.3	4757.9	5774.1	5975.4	5581.7	5465.5	4968.8	4373.3
57.5°	2007.8	2071.3	2508.1	3038.3	3989.2	5327.7	6034.2	5950.8	5838.2	5268.4	4593.1
60°	1301.3	1312.7	1762.1	2296.6	3037.7	4534.4	5914.9	6230.7	6142.6	5574.0	4777.1
62.5°	834.0	841.8	1115.6	1606.4	2186.3	3354.7	5513.5	6352.3	6325.3	5775.9	4953.8
65°	612.9	606.9	749.6	1061.7	1472.7	2068.9	4734.0	6293.6	6346.9	5902.4	5100.1
67.5°	511.7	503.3	573.4	735.1	1085.1	1175.0	3502.7	5911.9	6107.3	5887.9	5207.3
70°	466.2	459.0	501.5	545.8	846.6	786.7	1765.8	5139.6	5440.4	5724.3	5189.9
72.5°	394.8	382.2	440.3	484.7	658.5	603.3	729.8	3947.9	4314.5	5200.1	4945.4
75°	306.2	297.8	347.5	426.6	494.9	471.0	461.4	2397.3	2797.4	4021.6	4326.5
77.5°	242.6	231.2	276.9	332.5	445.2	355.3	336.1	1032.4	1429.0	2567.4	3237.3
80°	182.8	172.5	210.3	263.0	342.1	267.8	217.5	421.2	538.6	1300.7	1627.9
82.5°	130.0	121.1	146.8	192.9	230.1	240.3	133.7	236.1	265.5	501.5	363.7
85°	83.3	77.9	98.3	121.1	146.2	154.6	81.5	123.4	135.4	206.7	151.6
87.5°	45.5	37.1	52.7	56.3	67.8	61.7	38.9	44.9	48.5	74.9	64.1
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°	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6	1272.6
2.5°	1277.5	1279.2	1285.1	1287.0	1291.2	1296.6	1300.2	1303.8	1303.8	1307.4	1307.4
5°	1294.8	1299.0	1311.6	1318.1	1328.9	1339.7	1346.3	1354.1	1358.8	1361.3	1362.5
7.5°	1328.3	1335.0	1352.9	1364.3	1382.8	1397.8	1408.0	1418.8	1421.2	1427.8	1425.4
10°	1373.9	1381.7	1402.0	1423.6	1445.8	1464.3	1473.9	1481.7	1484.7	1485.9	1482.9
12.5°	1426.0	1437.4	1463.7	1490.1	1513.5	1529.6	1532.1	1530.2	1521.8	1514.6	1514.6
15°	1490.1	1500.3	1529.6	1558.4	1581.2	1584.1	1569.2	1559.6	1549.4	1547.6	1547.6
17.5°	1566.8	1572.1	1599.2	1627.3	1629.1	1618.9	1596.7	1587.7	1578.2	1571.6	1572.1
20°	1656.1	1654.2	1673.4	1685.4	1672.9	1641.7	1608.1	1593.2	1583.6	1575.8	1576.3
22.5°	1762.7	1749.0	1746.5	1743.5	1710.0	1644.7	1599.2	1579.9	1565.0	1554.2	1557.8
25°	1917.9	1865.2	1828.6	1808.3	1732.8	1628.5	1570.4	1527.9	1499.7	1481.1	1488.3
27.5°	2112.0	2023.4	1931.1	1881.4	1732.8	1595.5	1500.9	1432.0	1385.9	1366.6	1376.3
30°	2297.1	2204.3	2068.3	1969.4	1728.6	1541.6	1388.9	1292.9	1239.0	1219.9	1231.2
32.5°	2455.4	2354.1	2213.9	2065.9	1718.4	1454.2	1249.9	1143.8	1091.6	1068.9	1080.2
35°	2602.2	2494.3	2360.1	2172.0	1691.5	1325.9	1097.1	1016.2	958.1	921.5	933.5
37.5°	2752.5	2624.3	2498.5	2267.8	1642.9	1176.2	979.6	910.7	842.4	793.2	806.5
40°	2916.1	2762.7	2646.4	2324.7	1563.2	1033.5	888.6	825.6	753.2	701.0	711.2
42.5°	3107.3	2928.7	2811.3	2354.1	1454.2	932.3	829.2	767.5	699.3	656.7	665.0
45°	3306.8	3111.4	2961.6	2353.5	1332.5	885.0	810.1	749.0	673.4	629.1	636.3
47.5°	3515.9	3302.6	3091.7	2315.2	1227.0	891.5	799.3	708.8	625.6	582.4	588.3
50°	3725.6	3511.6	3217.5	2243.2	1182.1	877.2	759.1	652.5	554.2	515.3	517.6
52.5°	3933.4	3734.0	3325.9	2140.8	1136.6	823.8	707.6	579.4	524.9	497.9	497.9
55°	4142.5	3953.8	3444.0	1991.6	1022.7	761.6	621.4	551.9	501.5	476.9	474.6
57.5°	4352.3	4207.9	3556.0	1842.4	879.6	684.8	574.0	518.2	478.2	457.2	453.6
60°	4570.4	4498.5	3671.7	1705.2	738.2	586.6	539.3	491.3	450.6	427.2	425.4
62.5°	4795.1	4818.4	3762.2	1528.5	608.1	526.6	508.1	459.0	419.4	397.3	396.7
65°	5021.6	5127.0	3821.4	1283.4	493.1	469.8	474.6	423.6	383.5	364.3	363.7
67.5°	5192.3	5349.3	3804.7	971.2	404.5	415.8	432.6	386.4	348.7	333.7	334.4
70°	5211.5	5322.9	3639.3	665.0	338.6	363.1	385.8	349.9	311.0	300.2	300.7
72.5°	4956.3	4963.5	3178.5	434.4	286.4	318.8	336.7	312.7	275.0	264.2	263.6
75°	4287.0	4104.8	2333.7	286.4	239.6	273.8	290.6	273.8	237.3	239.6	231.2
77.5°	3248.0	2907.1	1417.0	203.7	200.1	230.1	252.9	240.9	209.7	235.4	207.4
80°	1673.4	1572.8	632.1	152.2	158.2	184.0	207.9	192.3	165.9	158.2	144.4
82.5°	383.5	445.8	249.3	109.1	114.4	132.4	158.8	144.4	119.2	100.7	99.4
85°	134.2	146.8	110.3	68.3	67.1	82.7	107.8	96.5	80.9	64.7	68.3
87.5°	42.5	55.8	41.3	27.6	28.8	37.1	49.7	45.5	37.7	24.6	25.7
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)