

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: P962378

Luminaire Tested: **NAV-SB2C-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962378
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2C-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9768.2 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

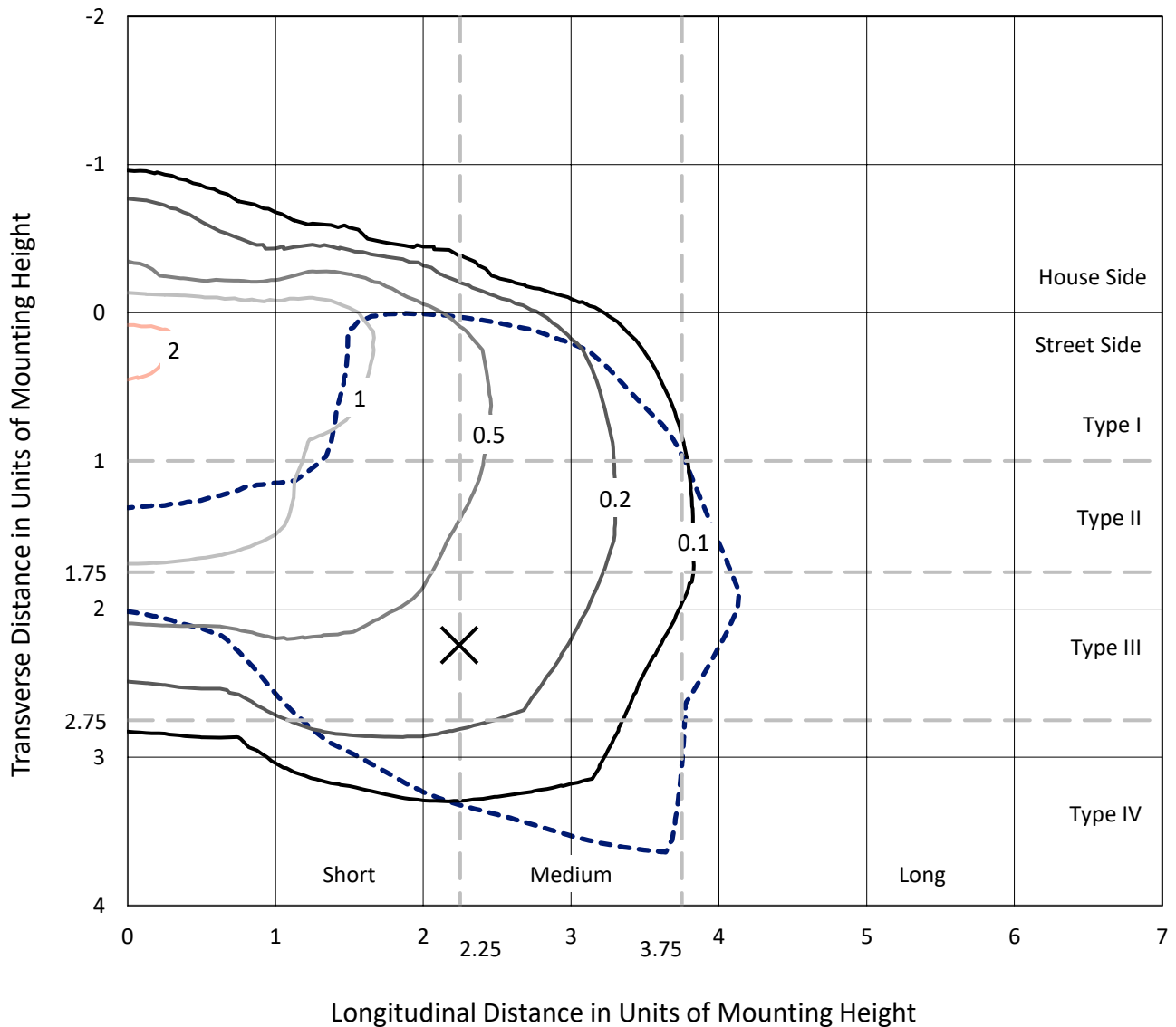
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

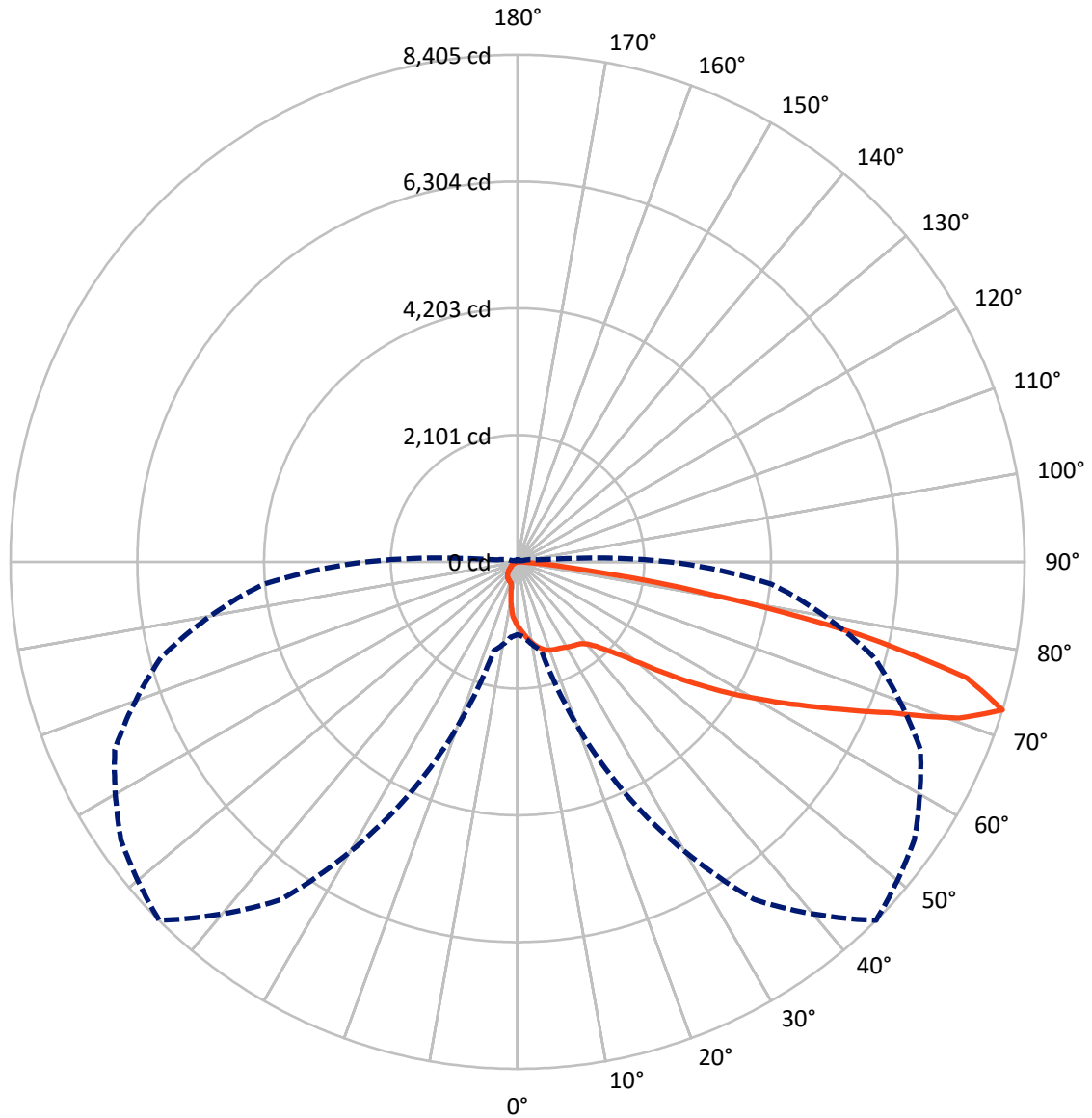
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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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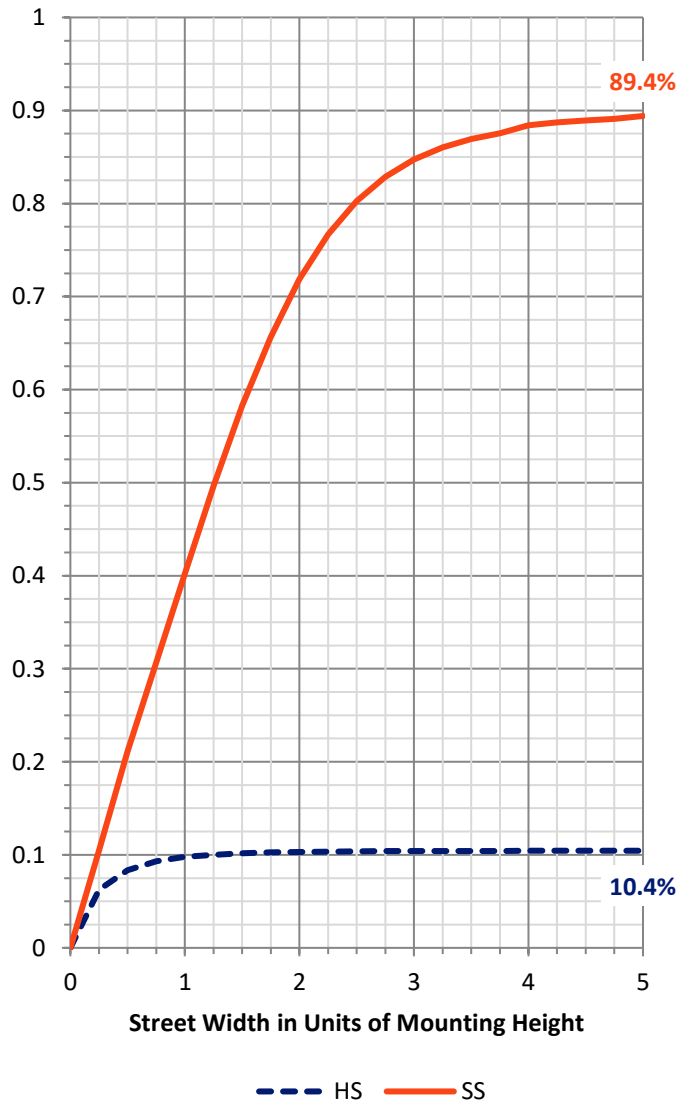
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1026.4	0.0	1026.4
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	8741.9	0.0	8741.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	9768.2	0.0	9768.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.8	1.0
10°-20°	294.7	3.0
20°-30°	483.9	5.0
30°-40°	686.3	7.0
40°-50°	1134.4	11.6
50°-60°	2037.8	20.9
60°-70°	2829.5	29.0
70°-80°	2052.5	21.0
80°-90°	148.4	1.5
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°	9768.2	100.0
0°-180°	9768.2	100.0

Coefficient of Utilization

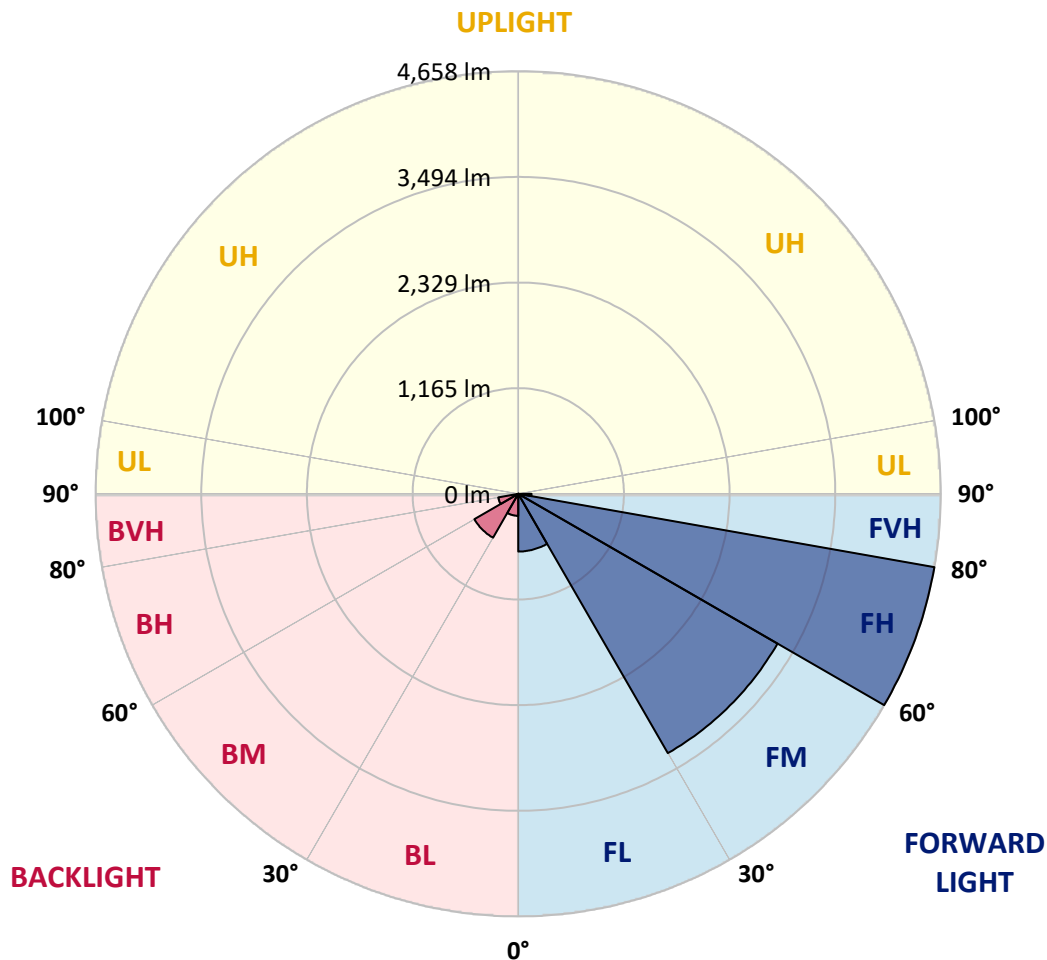


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.3	6.5			
FM (30°-60°)	3300.2	33.8			
FH (60°-80°)	4658.2	47.7			G2/5000
FVH (80°-90°)	147.1	1.5			G2/225
BL (0°-30°)	243.1	2.5	B1/500		
BM (30°-60°)	558.2	5.7	B1/1000		
BH (60°-80°)	223.8	2.3	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1
2.5°	1168.8	1170.9	1169.5	1161.4	1148.1	1140.8	1136.8	1123.5	1114.8	1099.5	1083.4
5°	1276.1	1284.1	1279.5	1263.5	1238.2	1220.2	1214.8	1187.5	1162.8	1134.2	1100.8
7.5°	1390.2	1394.2	1385.5	1364.8	1330.9	1300.1	1295.5	1257.5	1218.1	1174.1	1128.8
10°	1488.8	1493.5	1480.2	1450.2	1411.5	1373.5	1366.8	1324.8	1278.2	1224.2	1166.1
12.5°	1571.5	1576.2	1558.8	1522.8	1480.2	1440.8	1434.2	1390.2	1338.9	1278.8	1206.8
15°	1634.2	1642.9	1619.5	1580.9	1534.8	1495.5	1492.2	1448.8	1398.8	1332.2	1255.5
17.5°	1670.9	1679.6	1657.5	1610.9	1571.5	1538.2	1534.2	1498.1	1451.5	1387.5	1302.9
20°	1676.9	1684.9	1661.5	1620.8	1588.2	1561.5	1559.5	1533.5	1499.5	1438.2	1354.1
22.5°	1658.9	1668.9	1647.6	1614.9	1592.2	1578.2	1575.5	1560.9	1541.5	1489.5	1402.2
25°	1640.2	1648.2	1632.2	1603.5	1591.5	1590.2	1592.2	1589.6	1585.6	1541.5	1458.2
27.5°	1638.9	1647.6	1629.5	1602.2	1595.5	1609.6	1611.5	1624.2	1627.5	1588.9	1512.2
30°	1650.2	1656.2	1638.9	1610.2	1606.9	1638.9	1639.5	1662.2	1667.6	1628.8	1565.5
32.5°	1674.8	1681.5	1664.2	1622.2	1617.6	1662.2	1664.2	1694.2	1702.8	1671.6	1621.6
35°	1732.9	1740.9	1720.9	1655.6	1638.9	1684.2	1690.2	1725.6	1742.9	1716.9	1679.6
37.5°	1877.6	1854.2	1826.9	1722.9	1687.6	1718.9	1728.9	1770.2	1800.9	1770.9	1748.9
40°	2237.0	2163.6	2078.3	1837.5	1772.8	1792.9	1800.9	1842.2	1884.3	1854.9	1844.2
42.5°	2776.3	2689.7	2552.4	2101.6	1901.6	1911.5	1917.6	1953.5	2012.9	1989.6	1992.3
45°	3257.0	3225.8	3085.8	2552.4	2142.2	2092.9	2100.2	2118.9	2206.3	2197.6	2214.9
47.5°	3626.4	3608.4	3500.5	3069.7	2549.0	2315.0	2335.7	2344.3	2470.4	2501.0	2547.6
50°	3910.5	3903.8	3807.2	3529.8	3080.4	2642.3	2649.6	2631.0	2819.7	2895.7	2984.4
52.5°	4178.5	4201.2	4129.8	3957.1	3647.8	3071.0	3069.7	2981.7	3236.4	3351.0	3502.4
55°	4420.5	4428.5	4435.9	4393.3	4218.5	3559.1	3546.4	3402.4	3719.8	3838.5	4002.5
57.5°	4647.9	4651.2	4716.5	4804.0	4812.6	4083.2	4059.8	3887.1	4247.9	4332.6	4433.2
60°	4800.6	4816.0	4953.9	5196.6	5302.6	4623.9	4611.3	4435.2	4785.2	4824.6	4805.9
62.5°	4580.5	4673.9	5022.0	5503.3	5765.4	5223.3	5217.4	5051.9	5350.7	5318.6	5158.6
65°	3707.8	3865.8	4477.9	5710.7	6219.4	5892.7	5901.4	5725.3	5931.4	5827.4	5445.3
67.5°	2593.7	2760.3	3484.4	5727.4	6726.9	6678.8	6728.8	6452.8	6548.1	6314.8	5513.4
70°	1793.5	1879.5	2350.9	5368.6	7122.2	7761.6	7760.3	7346.3	7161.6	6536.8	5166.6
72.5°	1206.1	1250.8	1526.8	4259.2	6831.5	8405.0	8366.4	8029.0	7368.2	6113.4	4221.2
75°	508.7	541.4	706.7	2393.6	5404.6	7689.7	7584.9	7095.6	6546.8	4813.9	2633.6
77.5°	161.3	175.4	278.7	856.8	2977.0	5780.1	5669.4	4431.2	4387.9	2415.0	962.8
80°	76.7	89.4	156.7	344.1	1171.5	3143.7	3128.4	2010.2	1887.5	652.1	193.3
82.5°	33.3	39.4	86.7	184.0	524.1	1121.5	1144.1	684.1	566.1	247.3	59.3
85°	10.7	14.0	40.0	84.7	221.4	278.7	275.4	162.7	228.1	134.7	20.7
87.5°	0.0	0.0	13.3	19.4	22.7	16.0	18.0	14.0	63.3	37.3	7.4
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°	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1	1070.1
2.5°	1075.4	1064.8	1046.1	1028.8	1013.4	998.1	988.8	975.5	974.2	974.2	977.4
5°	1082.8	1065.5	1032.2	996.8	956.1	917.5	878.7	841.4	829.4	820.7	824.8
7.5°	1104.1	1076.8	1024.1	956.7	879.4	794.8	735.4	671.4	646.8	633.4	635.4
10°	1134.8	1097.5	1017.4	899.4	774.1	658.8	574.1	504.7	478.1	466.7	466.7
12.5°	1168.8	1122.8	1005.4	828.1	658.8	520.7	438.1	406.0	402.0	402.0	402.0
15°	1209.5	1153.4	984.8	744.0	538.0	412.0	382.7	384.1	388.1	390.7	390.7
17.5°	1251.5	1186.1	952.1	650.1	431.4	370.7	371.4	373.4	376.7	379.4	379.4
20°	1296.8	1218.8	908.8	550.1	370.0	358.7	360.7	362.7	365.4	366.7	367.4
22.5°	1345.5	1249.5	857.4	452.0	349.4	348.7	349.4	351.4	354.8	354.8	356.1
25°	1397.5	1283.5	798.8	380.7	338.7	338.7	340.0	341.3	344.1	344.1	344.7
27.5°	1450.9	1314.9	736.8	343.4	329.3	328.7	328.7	330.7	332.0	332.7	333.3
30°	1509.5	1351.5	674.8	335.4	322.1	318.7	316.7	318.1	319.4	320.0	321.3
32.5°	1569.5	1386.8	619.4	338.7	314.7	308.7	302.1	300.7	300.7	303.4	305.3
35°	1636.2	1425.5	576.8	350.0	310.7	294.1	283.4	277.4	278.1	282.1	284.0
37.5°	1716.3	1472.2	545.4	360.1	308.0	277.4	260.0	252.7	248.0	252.7	251.3
40°	1820.9	1540.9	522.8	368.1	304.7	258.0	234.7	222.7	214.0	216.7	215.4
42.5°	1974.9	1648.9	514.0	368.7	297.4	235.3	208.7	192.7	180.0	180.7	178.0
45°	2190.9	1819.6	558.7	360.1	281.4	210.7	181.3	160.0	152.0	150.1	147.4
47.5°	2487.0	2068.2	662.0	342.0	258.0	186.7	154.7	136.6	130.7	127.3	125.4
50°	2883.7	2387.6	776.7	322.1	234.7	164.0	132.6	121.4	117.4	114.0	113.4
52.5°	3343.8	2711.6	870.7	302.1	211.4	144.0	118.7	112.0	108.6	106.0	105.4
55°	3765.8	2935.0	865.4	280.7	188.7	128.0	108.6	104.7	100.7	98.0	96.7
57.5°	4028.5	2966.4	713.4	257.4	162.7	115.3	99.3	96.7	92.0	88.7	88.0
60°	4149.2	2787.7	500.1	226.7	136.6	103.3	89.4	88.0	82.0	77.4	76.1
62.5°	4171.1	2455.6	333.3	188.7	114.0	92.0	79.3	77.4	69.4	61.3	57.3
65°	4081.9	1980.9	230.7	147.4	97.4	80.1	68.0	64.0	55.4	47.4	44.7
67.5°	3799.2	1390.8	160.7	106.0	82.7	63.3	54.0	52.7	46.0	39.4	37.3
70°	3281.0	792.7	107.3	79.3	65.3	43.4	42.6	44.0	37.3	32.0	29.3
72.5°	2515.7	362.7	66.6	58.0	44.7	29.3	34.0	34.6	28.7	24.0	21.3
75°	1480.8	155.4	42.0	37.3	22.7	19.4	24.7	25.3	19.4	15.4	13.3
77.5°	504.1	58.6	26.6	22.0	11.4	10.7	16.0	16.0	10.7	6.0	4.7
80°	114.7	22.0	13.3	8.7	5.3	4.7	5.3	4.7	2.7	0.7	0.0
82.5°	32.7	8.7	5.3	3.4	2.0	2.0	0.7	0.0	0.0	0.0	0.0
85°	9.3	4.0	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)