

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: P963432

Luminaire Tested: **NAV-SB3A-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P963432
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-SB3A-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 350mA 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: 8778.1 lumens
Efficiency: N/A
Efficacy: 103.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

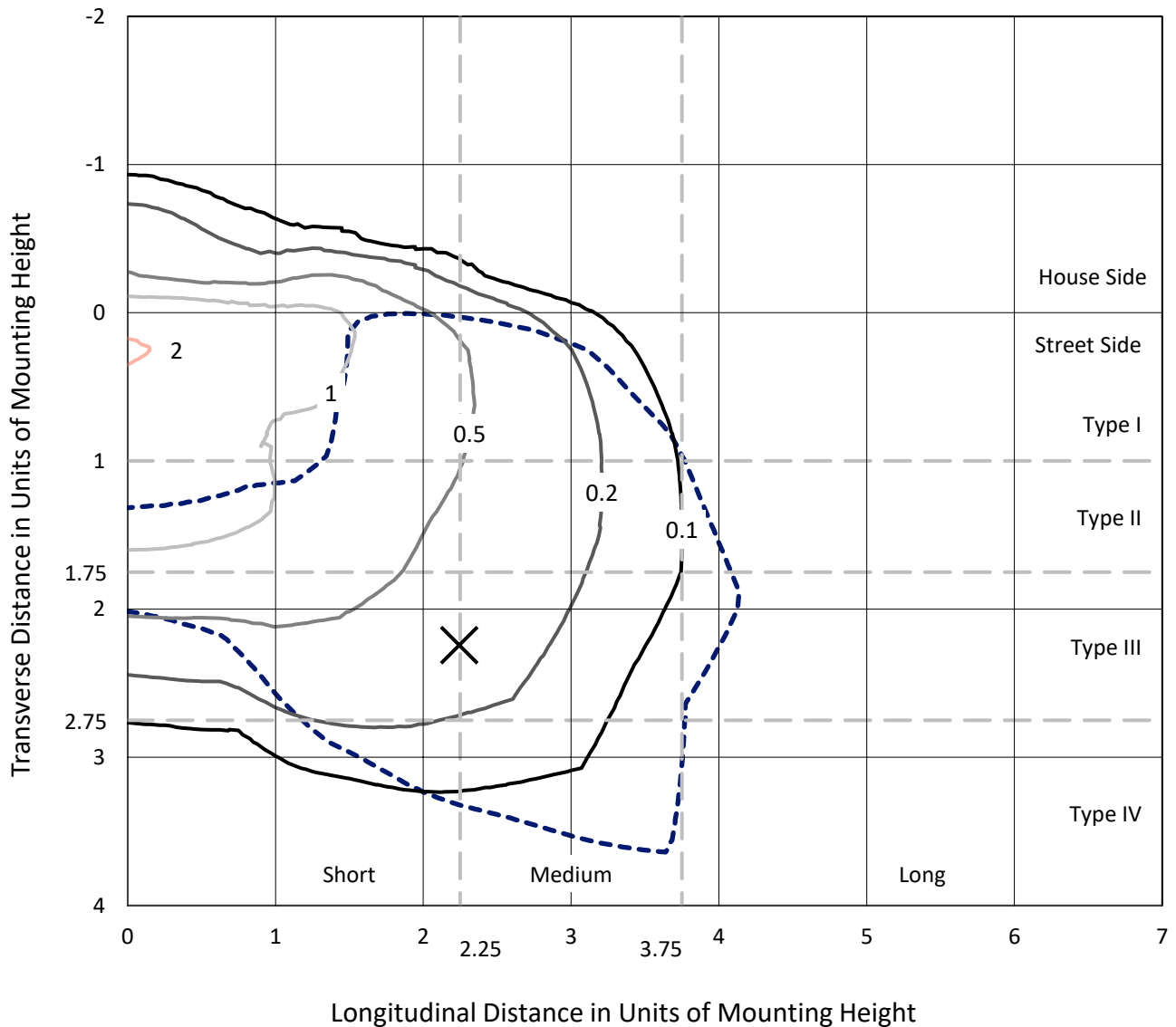
Input Watts (W): 84.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

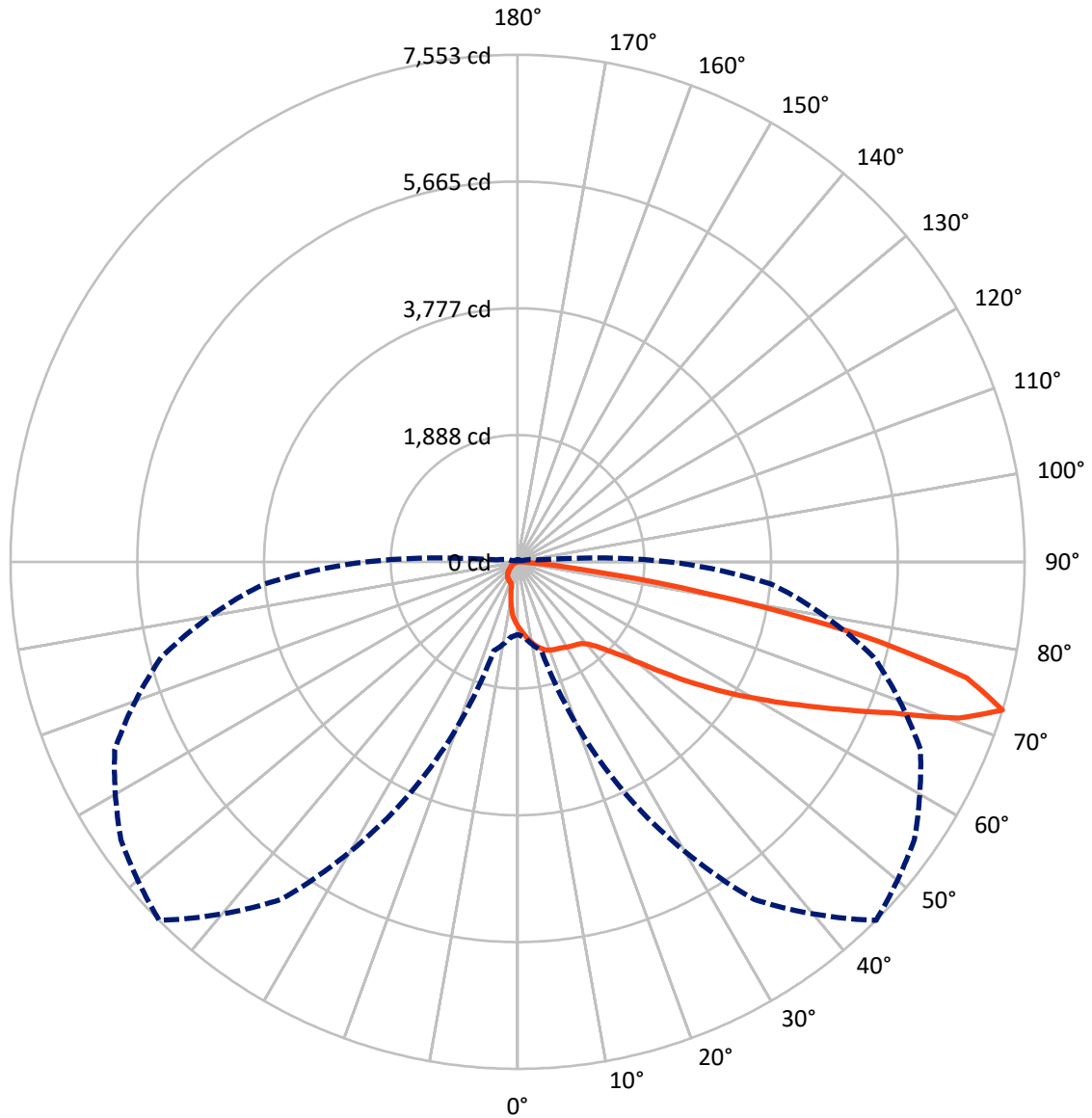
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 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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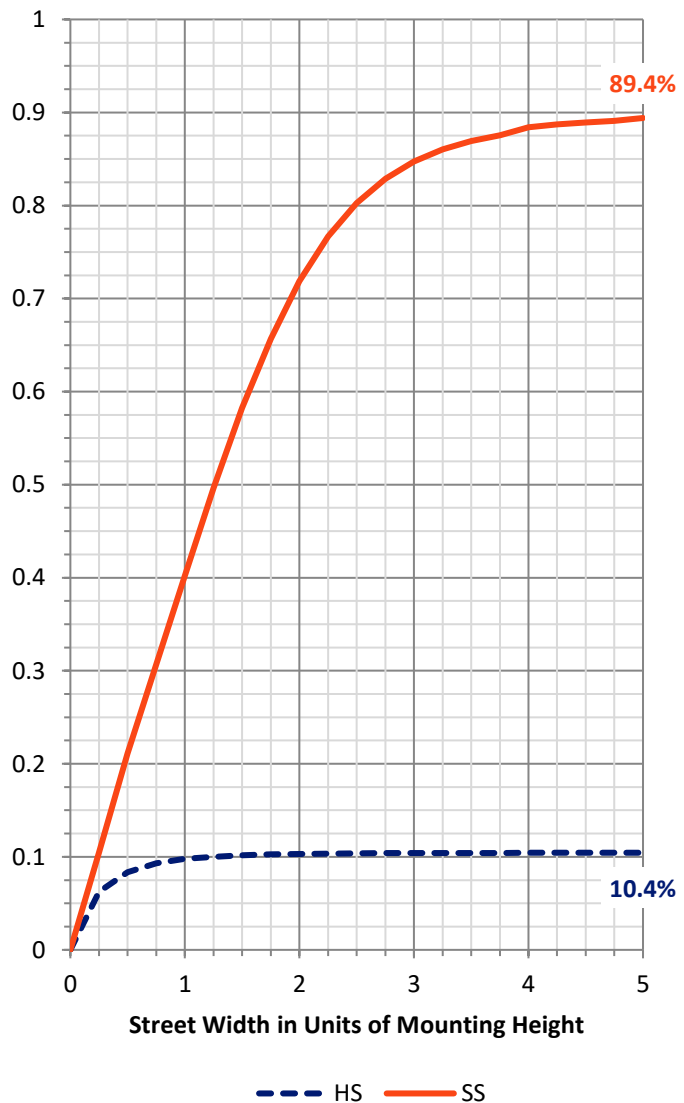
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	922.3	0.0	922.3
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	7855.8	0.0	7855.8
	% Fixture	89.5	0.0	89.5
Total	Lumens	8778.1	0.0	8778.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.6	1.0
10°-20°	264.8	3.0
20°-30°	434.9	5.0
30°-40°	616.7	7.0
40°-50°	1019.4	11.6
50°-60°	1831.2	20.9
60°-70°	2542.7	29.0
70°-80°	1844.4	21.0
80°-90°	133.3	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°	8778.1	100.0
0°-180°	8778.1	100.0

Coefficient of Utilization



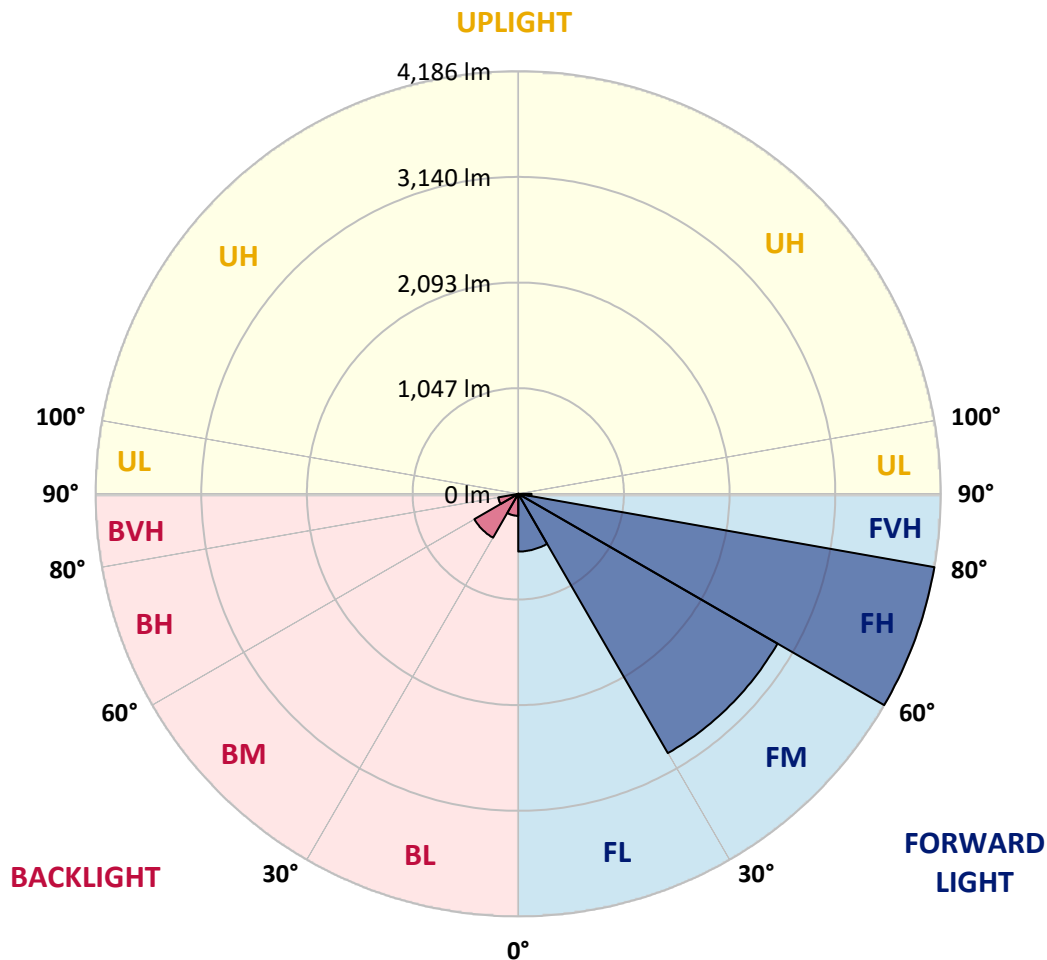
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	571.8	6.5			
FM (30°-60°)	2965.7	33.8			
FH (60°-80°)	4186.0	47.7			G2/5000
FVH (80°-90°)	132.2	1.5			G2/225
BL (0°-30°)	218.5	2.5	B1/500		
BM (30°-60°)	501.6	5.7	B1/1000		
BH (60°-80°)	201.1	2.3	B1/500		G1/500
BVH (80°-90°)	1.1	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°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	1050.3	1052.2	1050.9	1043.8	1031.8	1025.2	1021.6	1009.6	1001.8	988.0	973.6
5°	1146.8	1153.9	1149.8	1135.4	1112.6	1096.4	1091.7	1067.1	1045.0	1019.2	989.2
7.5°	1249.3	1252.9	1245.1	1226.5	1196.0	1168.4	1164.2	1130.1	1094.7	1055.1	1014.3
10°	1337.9	1342.1	1330.1	1303.2	1268.4	1234.3	1228.3	1190.5	1148.6	1100.0	1048.0
12.5°	1412.2	1416.4	1400.9	1368.5	1330.1	1294.8	1288.8	1249.3	1203.1	1149.2	1084.4
15°	1468.5	1476.3	1455.4	1420.6	1379.2	1343.9	1340.9	1302.0	1257.1	1197.1	1128.2
17.5°	1501.5	1509.3	1489.5	1447.6	1412.2	1382.3	1378.7	1346.3	1304.4	1246.9	1170.8
20°	1506.9	1514.1	1493.1	1456.5	1427.2	1403.2	1401.5	1378.1	1347.6	1292.4	1216.9
22.5°	1490.8	1499.7	1480.5	1451.2	1430.8	1418.2	1415.8	1402.6	1385.3	1338.5	1260.0
25°	1473.9	1481.1	1466.8	1440.9	1430.2	1429.1	1430.8	1428.4	1424.9	1385.3	1310.4
27.5°	1472.7	1480.5	1464.3	1439.8	1433.8	1446.4	1448.2	1459.6	1462.6	1427.8	1358.9
30°	1483.0	1488.3	1472.7	1447.0	1444.0	1472.7	1473.3	1493.7	1498.6	1463.8	1406.8
32.5°	1505.1	1511.1	1495.5	1457.8	1453.6	1493.7	1495.5	1522.4	1530.2	1502.1	1457.1
35°	1557.2	1564.5	1546.4	1487.7	1472.7	1513.5	1518.8	1550.6	1566.2	1542.8	1509.3
37.5°	1687.3	1666.2	1641.7	1548.3	1516.5	1544.7	1553.6	1590.8	1618.4	1591.4	1571.6
40°	2010.2	1944.3	1867.5	1651.3	1593.2	1611.2	1618.4	1655.5	1693.2	1666.9	1657.3
42.5°	2495.0	2417.1	2293.6	1888.6	1708.8	1717.8	1723.2	1755.5	1808.9	1787.9	1790.3
45°	2926.9	2898.8	2772.9	2293.6	1925.2	1880.8	1887.3	1904.1	1982.7	1974.9	1990.4
47.5°	3258.9	3242.7	3145.6	2758.6	2290.6	2080.3	2098.9	2106.7	2219.9	2247.5	2289.4
50°	3514.1	3508.1	3421.2	3172.0	2768.1	2374.5	2381.1	2364.3	2533.9	2602.2	2681.9
52.5°	3755.0	3775.4	3711.2	3556.0	3278.1	2759.7	2758.6	2679.5	2908.3	3011.4	3147.4
55°	3972.5	3979.7	3986.2	3947.9	3791.0	3198.3	3186.9	3057.6	3342.7	3449.4	3596.8
57.5°	4176.8	4179.7	4238.5	4317.0	4324.8	3669.3	3648.3	3493.1	3817.3	3893.4	3983.9
60°	4314.0	4327.8	4451.8	4669.9	4765.1	4155.2	4143.9	3985.6	4300.2	4335.5	4318.7
62.5°	4116.3	4200.1	4512.9	4945.5	5181.0	4693.9	4688.5	4539.8	4808.3	4779.6	4635.8
65°	3332.0	3473.9	4023.9	5131.9	5589.0	5295.5	5303.2	5145.0	5330.2	5236.7	4893.3
67.5°	2330.7	2480.5	3131.3	5146.8	6044.9	6001.8	6046.8	5798.7	5884.4	5674.7	4954.5
70°	1611.7	1689.0	2112.6	4824.5	6400.3	6974.9	6973.7	6601.6	6435.7	5874.2	4642.9
72.5°	1083.9	1124.0	1372.1	3827.5	6139.0	7553.1	7518.3	7215.2	6621.4	5493.7	3793.3
75°	457.2	486.6	635.1	2151.0	4856.9	6910.1	6816.1	6376.3	5883.2	4326.0	2366.7
77.5°	145.0	157.5	250.4	769.9	2675.2	5194.2	5094.7	3982.0	3943.1	2170.1	865.2
80°	68.9	80.3	140.8	309.1	1052.8	2825.1	2811.3	1806.5	1696.3	586.0	173.7
82.5°	29.9	35.4	77.9	165.3	471.0	1007.8	1028.2	614.7	508.7	222.3	53.3
85°	9.6	12.6	36.0	76.1	199.0	250.4	247.4	146.2	204.9	121.1	18.6
87.5°	0.0	0.0	12.0	17.4	20.4	14.3	16.2	12.6	56.9	33.5	6.6
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°	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7	961.7
2.5°	966.5	956.8	940.1	924.6	910.7	897.0	888.6	876.6	875.4	875.4	878.4
5°	973.0	957.5	927.5	895.7	859.2	824.4	789.7	756.1	745.4	737.6	741.2
7.5°	992.2	967.6	920.3	859.8	790.3	714.2	660.9	603.3	581.2	569.2	571.0
10°	1019.8	986.3	914.3	808.3	695.7	591.9	515.9	453.6	429.6	419.4	419.4
12.5°	1050.3	1009.0	903.5	744.2	591.9	467.9	393.7	364.9	361.3	361.3	361.3
15°	1086.9	1036.6	885.0	668.7	483.5	370.3	343.9	345.1	348.7	351.1	351.1
17.5°	1124.6	1065.9	855.6	584.1	387.7	333.1	333.7	335.5	338.6	340.9	340.9
20°	1165.4	1095.3	816.6	494.4	332.5	322.4	324.1	326.0	328.3	329.5	330.2
22.5°	1209.1	1122.8	770.5	406.2	314.0	313.3	314.0	315.8	318.8	318.8	320.0
25°	1255.8	1153.4	717.8	342.1	304.4	304.4	305.6	306.8	309.1	309.1	309.8
27.5°	1303.8	1181.5	662.0	308.5	296.0	295.4	295.4	297.1	298.4	299.0	299.6
30°	1356.5	1214.5	606.4	301.3	289.4	286.4	284.6	285.8	287.0	287.6	288.8
32.5°	1410.4	1246.3	556.6	304.4	282.8	277.4	271.4	270.2	270.2	272.6	274.4
35°	1470.4	1281.0	518.2	314.6	279.2	264.2	254.6	249.3	249.9	253.5	255.2
37.5°	1542.2	1323.0	490.2	323.6	276.9	249.3	233.7	227.0	222.9	227.0	225.9
40°	1636.3	1384.7	469.8	330.8	273.8	231.9	210.9	200.1	192.3	194.7	193.5
42.5°	1774.7	1481.7	462.0	331.4	267.2	211.5	187.6	173.1	161.7	162.4	160.0
45°	1968.8	1635.1	502.1	323.6	252.9	189.3	163.0	143.8	136.6	134.8	132.4
47.5°	2234.9	1858.6	595.0	307.4	231.9	167.8	139.0	122.8	117.5	114.4	112.6
50°	2591.4	2145.6	698.0	289.4	210.9	147.4	119.2	109.1	105.5	102.5	101.9
52.5°	3004.8	2436.8	782.5	271.4	189.9	129.5	106.7	100.7	97.7	95.2	94.7
55°	3384.0	2637.5	777.7	252.3	169.5	115.0	97.7	94.1	90.5	88.0	86.9
57.5°	3620.2	2665.7	641.1	231.2	146.2	103.6	89.3	86.9	82.7	79.6	79.1
60°	3728.6	2505.1	449.4	203.7	122.8	92.9	80.3	79.1	73.7	69.5	68.3
62.5°	3748.4	2206.7	299.6	169.5	102.5	82.7	71.3	69.5	62.3	55.1	51.6
65°	3668.1	1780.1	207.4	132.4	87.4	71.9	61.1	57.5	49.7	42.5	40.2
67.5°	3414.1	1249.9	144.4	95.2	74.3	56.9	48.5	47.4	41.3	35.4	33.5
70°	2948.5	712.4	96.5	71.3	58.7	38.9	38.3	39.6	33.5	28.8	26.3
72.5°	2260.6	326.0	60.0	52.2	40.2	26.3	30.5	31.2	25.7	21.5	19.2
75°	1330.8	139.6	37.7	33.5	20.4	17.4	22.1	22.8	17.4	13.7	12.0
77.5°	452.9	52.7	24.0	19.8	10.1	9.6	14.3	14.3	9.6	5.4	4.2
80°	103.0	19.8	12.0	7.8	4.8	4.2	4.8	4.2	2.4	0.6	0.0
82.5°	29.3	7.8	4.8	3.0	1.8	1.8	0.6	0.0	0.0	0.0	0.0
85°	8.4	3.6	1.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	0.6	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)