

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: P959723

Luminaire Tested: **NAV-SB1B-722-U-SL3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959723  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-722-U-SL3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4661.7 lumens  
Efficiency: N/A  
Efficacy: 117.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

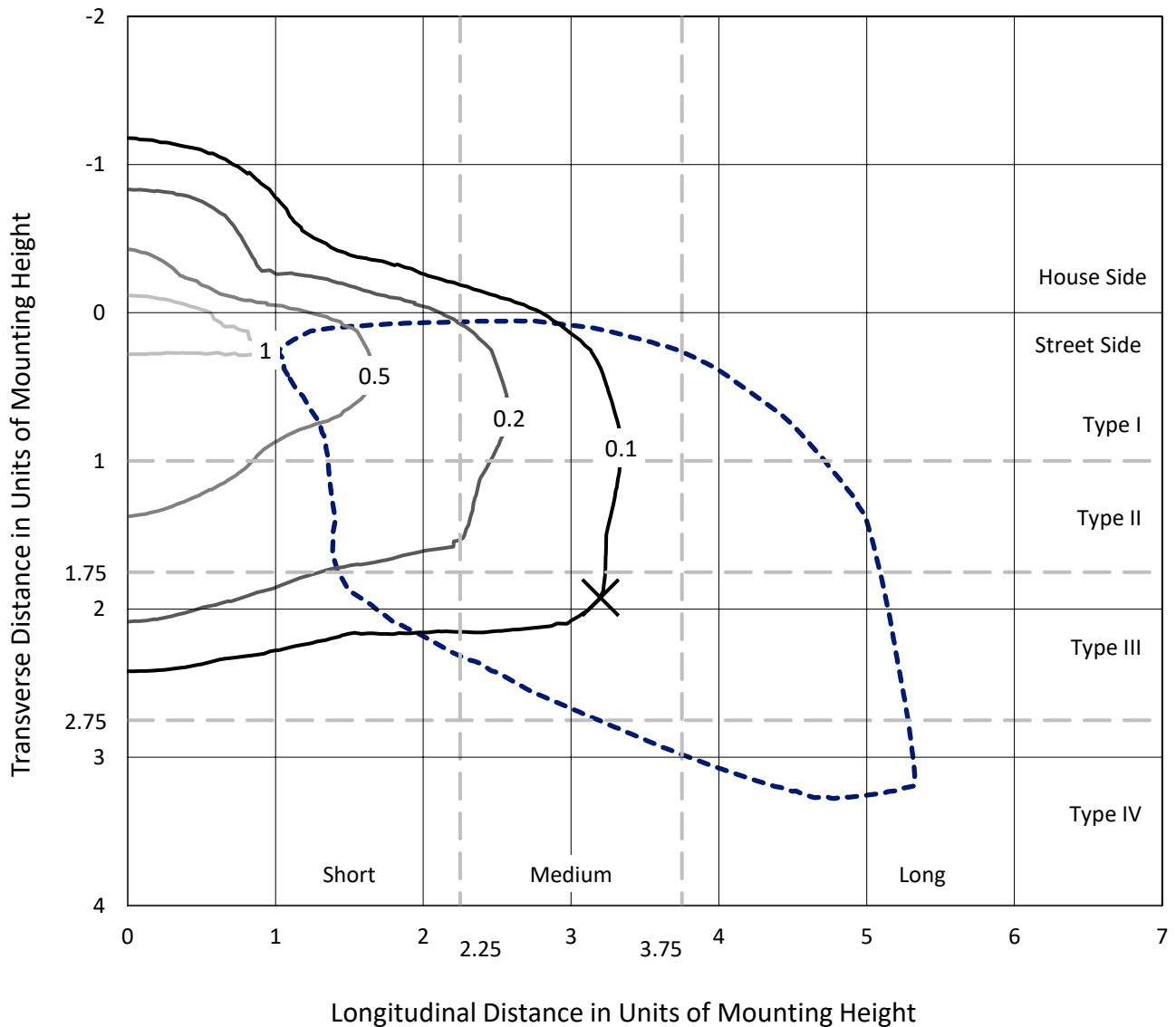
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

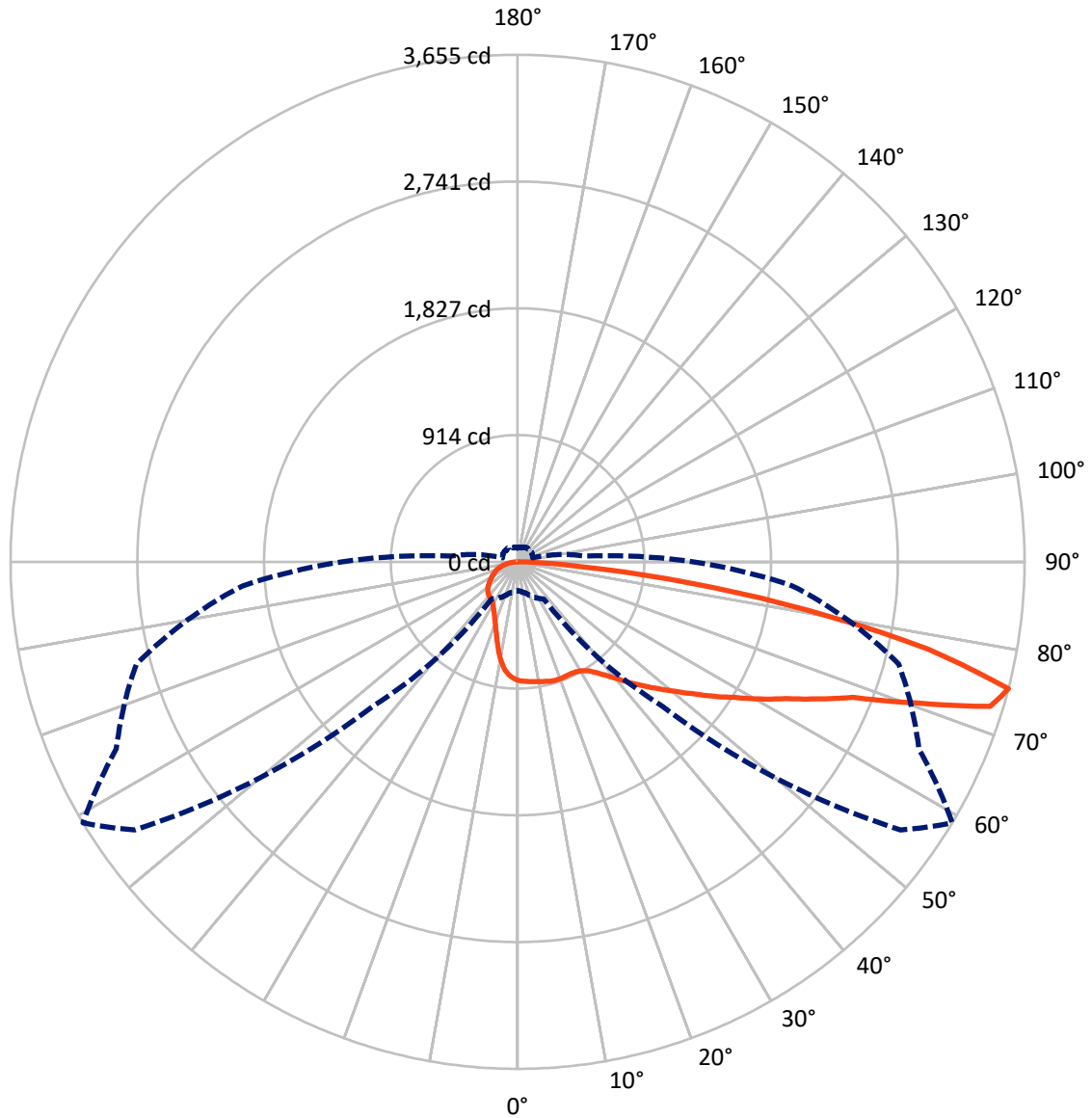
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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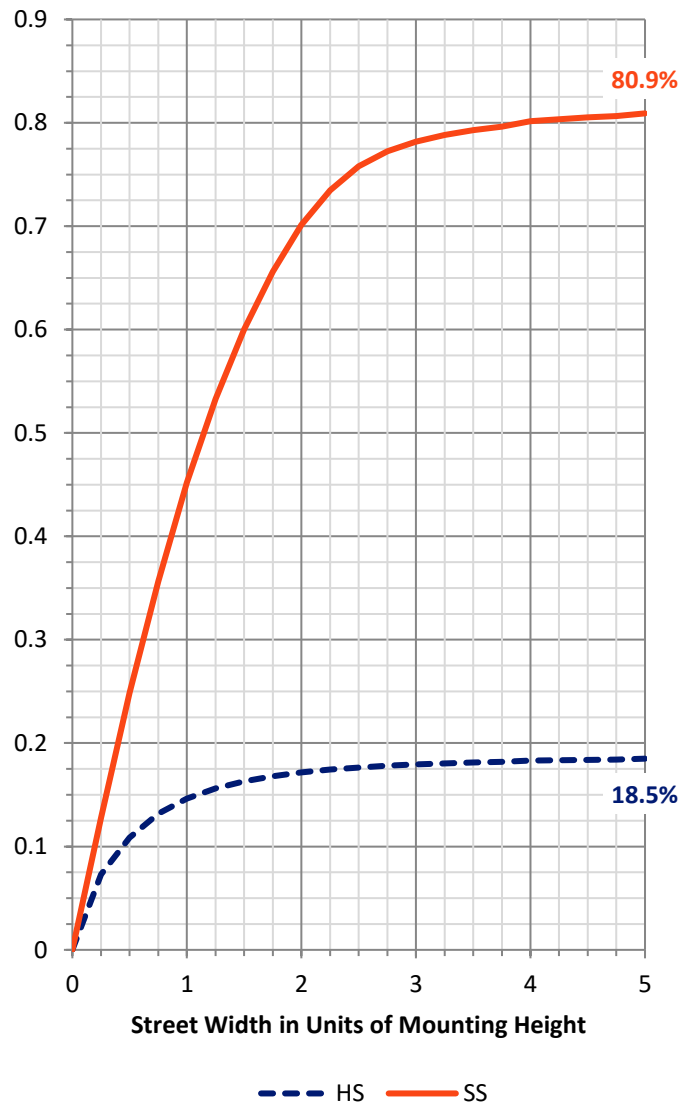
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	874.3	0.0	874.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	3787.4	0.0	3787.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	4661.7	0.0	4661.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.7	1.6
10°-20°	196.1	4.2
20°-30°	297.9	6.4
30°-40°	442.8	9.5
40°-50°	658.5	14.1
50°-60°	893.8	19.2
60°-70°	1091.2	23.4
70°-80°	856.4	18.4
80°-90°	148.3	3.2
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°	4661.7	100.0
0°-180°	4661.7	100.0

**Coefficient of Utilization**

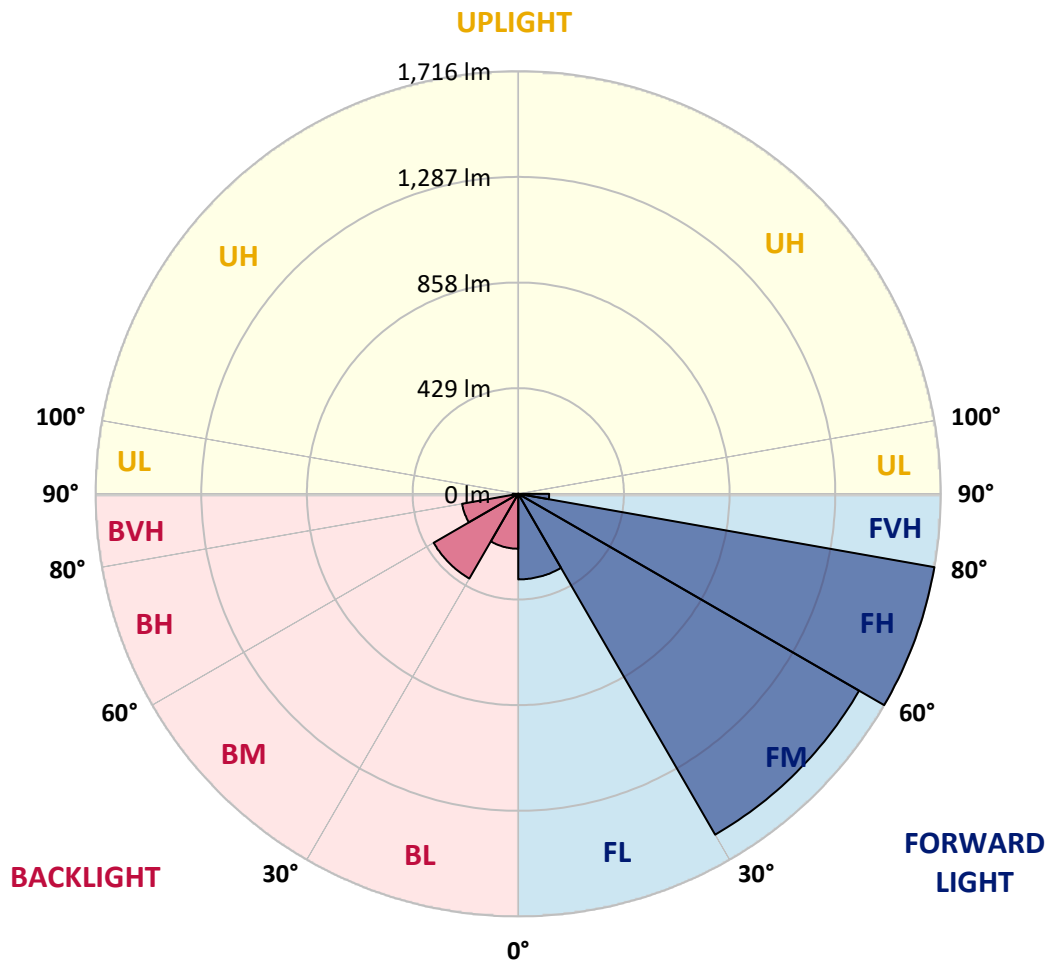


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.6	7.5			
FM (30°-60°)	1598.2	34.3			
FH (60°-80°)	1715.9	36.8			G1/1800
FVH (80°-90°)	125.6	2.7			G2/225
BL (0°-30°)	223.1	4.8	B1/500		
BM (30°-60°)	396.9	8.5	B1/1000		
BH (60°-80°)	231.7	5.0	B1/500		G1/500
BVH (80°-90°)	22.7	0.5			G1/100
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 Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7
2.5°	862.9	859.9	862.9	861.6	861.2	860.2	860.4	862.1	861.2	862.4	858.1
5°	857.1	855.4	858.4	857.6	860.9	861.4	864.7	866.6	868.0	868.2	864.9
7.5°	847.6	845.8	850.1	853.6	860.7	862.6	869.4	872.7	874.4	877.5	872.7
10°	812.7	812.0	822.6	835.8	852.4	862.6	873.0	878.4	881.2	889.3	883.8
12.5°	751.1	752.0	765.9	791.4	824.5	857.6	877.0	885.0	889.3	899.2	896.8
15°	692.2	691.9	706.9	734.3	780.6	835.6	878.9	892.8	900.1	914.8	912.9
17.5°	658.0	657.0	667.6	688.4	731.5	801.8	873.9	897.0	912.6	931.1	929.4
20°	651.8	649.7	655.3	665.5	696.2	764.6	860.9	897.0	922.6	946.7	945.7
22.5°	674.6	671.4	669.0	667.8	681.3	734.0	846.1	894.0	937.4	969.0	967.2
25°	720.5	715.4	704.0	692.6	688.6	720.3	833.1	893.3	959.5	999.1	992.6
27.5°	794.7	788.4	765.2	738.0	713.7	727.2	827.3	897.8	983.8	1030.9	1017.9
30°	886.7	880.0	850.6	809.0	765.4	753.4	834.6	911.0	1014.9	1073.3	1047.8
32.5°	969.2	961.8	936.6	894.3	835.4	798.5	857.6	936.4	1063.7	1132.2	1092.6
35°	1042.4	1033.7	1011.2	972.0	921.1	861.9	899.2	981.2	1133.2	1228.1	1153.5
37.5°	1114.2	1103.9	1079.3	1037.9	1002.3	946.4	956.7	1038.9	1225.5	1344.4	1234.3
40°	1194.4	1179.7	1149.8	1108.9	1074.3	1045.5	1032.2	1109.7	1319.3	1474.3	1335.2
42.5°	1272.2	1258.2	1222.5	1187.7	1144.3	1136.0	1119.7	1192.5	1421.9	1617.0	1437.5
45°	1356.0	1339.2	1296.0	1251.8	1224.6	1196.2	1204.5	1275.2	1522.4	1762.5	1544.8
47.5°	1434.4	1415.6	1364.7	1315.6	1300.5	1246.8	1282.2	1366.2	1627.0	1909.9	1651.1
50°	1476.8	1458.3	1415.8	1371.4	1359.7	1309.3	1366.4	1466.3	1736.7	2056.9	1753.2
52.5°	1512.2	1492.1	1436.6	1412.1	1408.6	1377.3	1470.3	1580.7	1846.2	2186.7	1851.8
55°	1549.8	1527.5	1456.7	1434.7	1450.8	1453.4	1593.5	1710.3	1962.1	2313.4	1944.7
57.5°	1593.2	1564.9	1476.1	1453.8	1491.9	1542.7	1734.8	1844.7	2075.9	2430.8	2027.6
60°	1634.1	1605.5	1513.2	1484.1	1536.3	1646.4	1897.1	2007.5	2204.8	2535.3	2105.8
62.5°	1642.0	1618.5	1542.7	1542.5	1596.4	1767.2	2089.3	2171.7	2317.4	2638.7	2176.0
65°	1503.2	1488.3	1443.5	1540.3	1682.7	1941.2	2303.1	2381.9	2460.6	2729.0	2237.7
67.5°	1144.0	1146.1	1142.8	1329.6	1612.9	2191.2	2612.8	2606.8	2637.4	2830.2	2308.6
70°	523.2	534.9	611.6	917.9	1292.2	2220.1	3124.9	3046.9	2859.3	2961.4	2370.1
72.5°	282.6	291.6	323.0	444.6	776.9	1973.8	3507.6	3563.0	3154.5	3049.7	2302.7
75°	207.4	212.4	234.2	282.6	326.3	1467.1	3370.4	3654.8	3191.3	2843.8	1988.4
77.5°	155.2	157.4	175.3	224.0	167.0	773.4	2693.1	3026.8	2731.9	2336.5	1468.8
80°	112.6	115.1	128.4	168.0	117.2	282.9	1849.2	2124.5	1871.0	1489.3	732.1
82.5°	77.7	78.7	84.5	114.4	81.8	109.9	1049.3	1245.9	1044.5	522.6	197.6
85°	46.9	48.2	50.6	66.7	46.4	52.2	452.9	468.4	312.2	124.8	61.4
87.5°	19.3	20.6	22.5	28.1	18.3	14.6	74.7	93.8	58.4	36.6	19.1
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°	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7	855.7
2.5°	856.9	855.2	850.3	843.9	837.8	830.4	827.1	824.3	821.7	817.0	814.8
5°	862.1	857.4	844.6	828.1	809.2	788.7	768.6	754.8	743.0	734.3	727.0
7.5°	870.2	861.2	837.8	804.0	760.9	716.7	676.8	648.5	627.2	619.4	605.9
10°	878.4	867.7	827.1	767.4	692.9	624.9	572.1	542.9	525.8	520.4	511.8
12.5°	888.3	872.5	810.3	716.5	616.9	542.4	496.3	479.2	470.5	467.4	468.2
15°	902.5	876.5	784.9	652.7	544.5	482.3	452.4	440.6	436.1	435.8	436.9
17.5°	913.3	877.2	745.6	584.6	488.7	445.9	421.3	416.8	419.8	424.4	426.1
20°	925.4	870.4	693.9	522.3	449.7	414.0	403.7	406.7	414.0	420.6	422.8
22.5°	933.9	858.1	631.5	474.0	415.7	395.8	395.2	401.5	405.5	408.8	410.5
25°	941.4	837.3	565.3	433.4	388.0	384.7	390.2	388.2	385.4	388.2	389.9
27.5°	946.9	804.5	506.0	397.7	368.4	377.2	373.9	369.4	369.1	370.6	373.2
30°	945.2	760.6	457.5	363.9	354.5	363.2	355.4	354.5	353.8	354.5	357.3
32.5°	945.2	710.7	420.0	340.5	345.8	342.6	341.8	340.1	337.0	336.8	340.1
35°	950.5	660.8	388.0	328.0	338.6	330.8	331.3	327.0	320.7	317.8	320.7
37.5°	961.2	620.6	356.1	322.0	325.7	325.5	323.5	316.2	305.1	295.7	298.9
40°	987.3	608.8	334.3	319.3	319.7	322.8	317.4	303.4	278.4	262.8	264.9
42.5°	1028.2	628.7	329.5	312.4	315.7	318.8	308.4	275.8	258.1	248.8	248.8
45°	1080.0	663.3	339.8	302.7	306.2	311.5	280.8	265.3	257.3	257.6	258.8
47.5°	1145.7	699.7	358.9	294.2	292.4	295.4	262.6	253.1	242.0	244.8	251.7
50°	1221.8	736.6	376.9	282.6	277.1	267.3	250.8	241.8	227.8	221.2	222.9
52.5°	1304.0	772.1	384.2	268.5	260.6	249.3	242.7	231.8	214.6	203.9	203.7
55°	1382.0	804.5	376.2	251.7	244.1	235.2	234.2	227.4	209.1	194.1	194.1
57.5°	1455.7	831.6	356.1	234.7	227.2	221.9	228.7	225.4	202.3	183.1	182.0
60°	1518.2	850.1	327.0	217.4	212.2	209.4	219.7	218.6	192.8	171.3	170.6
62.5°	1567.8	857.4	294.9	200.9	199.6	194.6	207.2	207.2	180.8	159.7	159.0
65°	1606.7	850.3	262.3	184.6	187.1	179.6	191.9	190.3	168.0	149.4	148.4
67.5°	1641.0	827.3	226.2	168.5	174.2	164.7	175.8	172.3	154.0	139.2	138.2
70°	1656.4	773.7	185.1	152.5	159.5	150.3	159.7	153.2	138.2	128.1	126.2
72.5°	1533.5	643.0	145.7	135.7	141.7	134.2	142.5	134.9	121.2	116.6	112.9
75°	1268.6	482.5	112.1	117.4	121.9	116.1	121.7	116.1	103.5	106.8	97.6
77.5°	921.4	325.7	85.8	98.1	100.0	97.1	101.8	95.5	84.3	83.5	79.7
80°	458.2	190.9	67.2	77.5	76.8	74.7	80.3	77.3	67.8	71.8	70.9
82.5°	132.6	81.8	48.9	54.4	52.9	53.4	57.4	58.9	88.3	87.5	89.5
85°	41.6	32.1	29.3	30.3	28.8	29.6	33.8	67.2	62.2	36.4	39.4
87.5°	10.8	11.1	7.3	7.8	8.0	9.5	10.8	40.9	19.6	12.8	13.5
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)