

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: P960262

Luminaire Tested: **NAV-SB1C-722-U-T2U**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960262  
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-SB1C-722-U-T2U  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6428.8 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

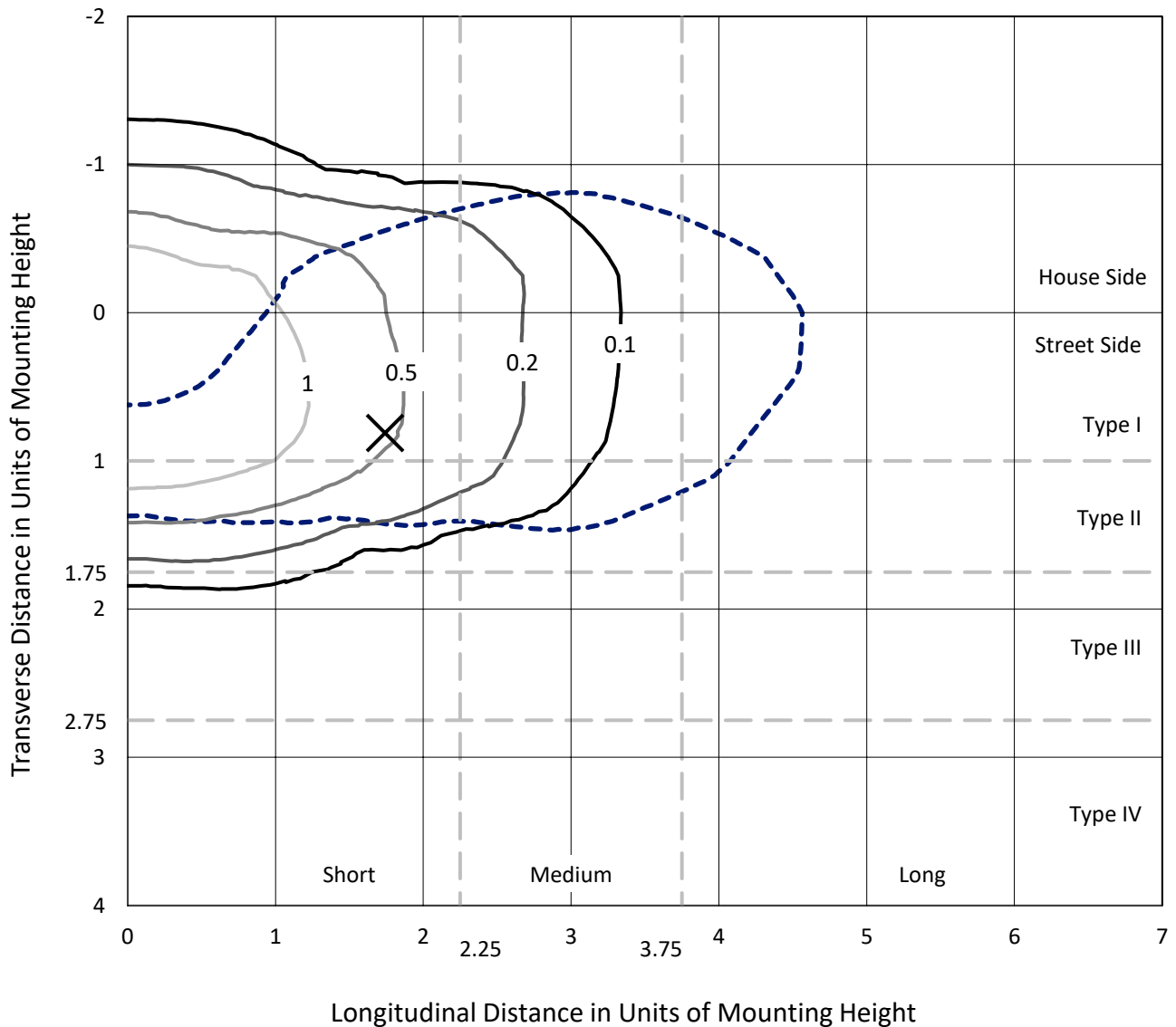
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

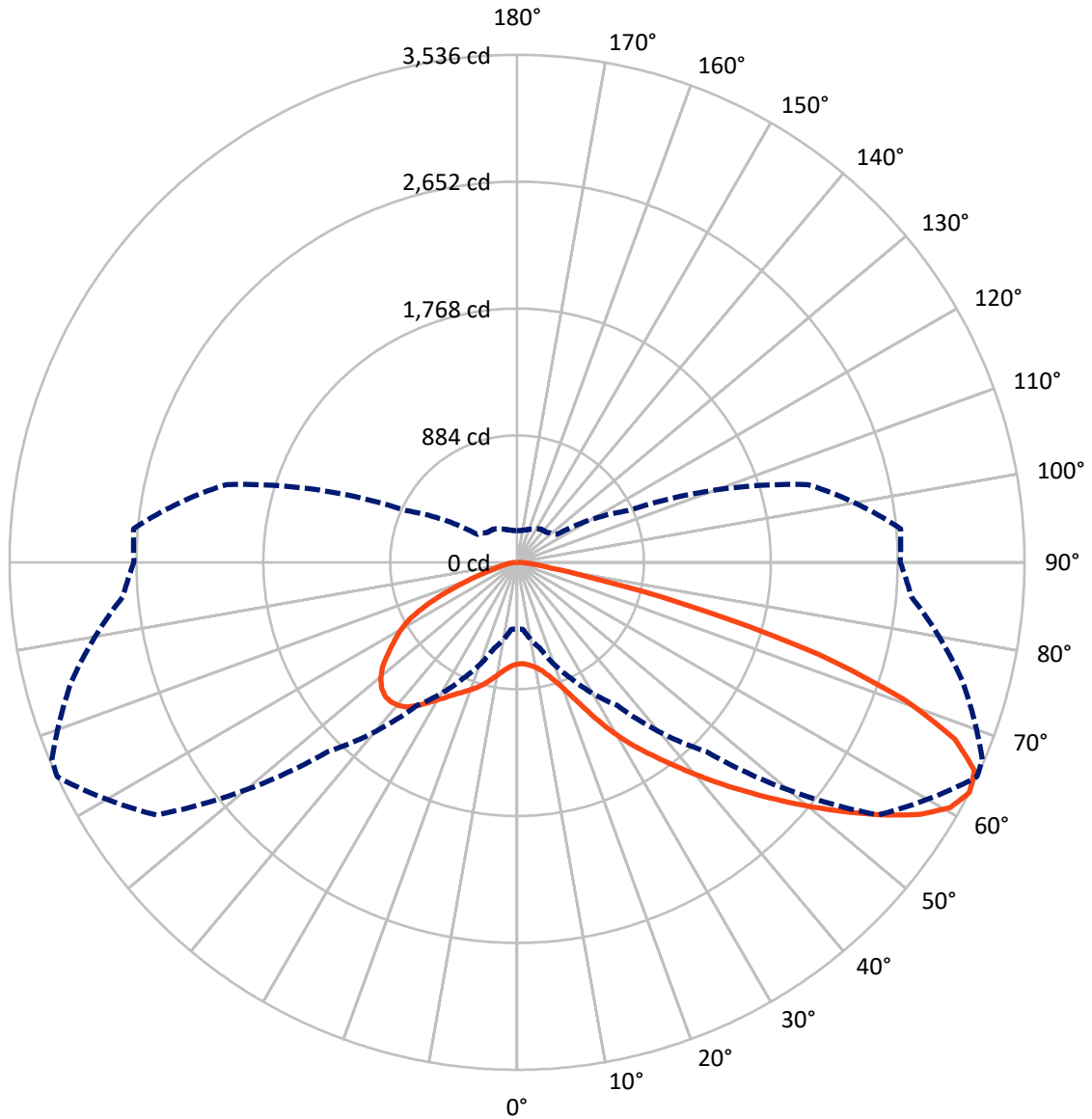
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.8 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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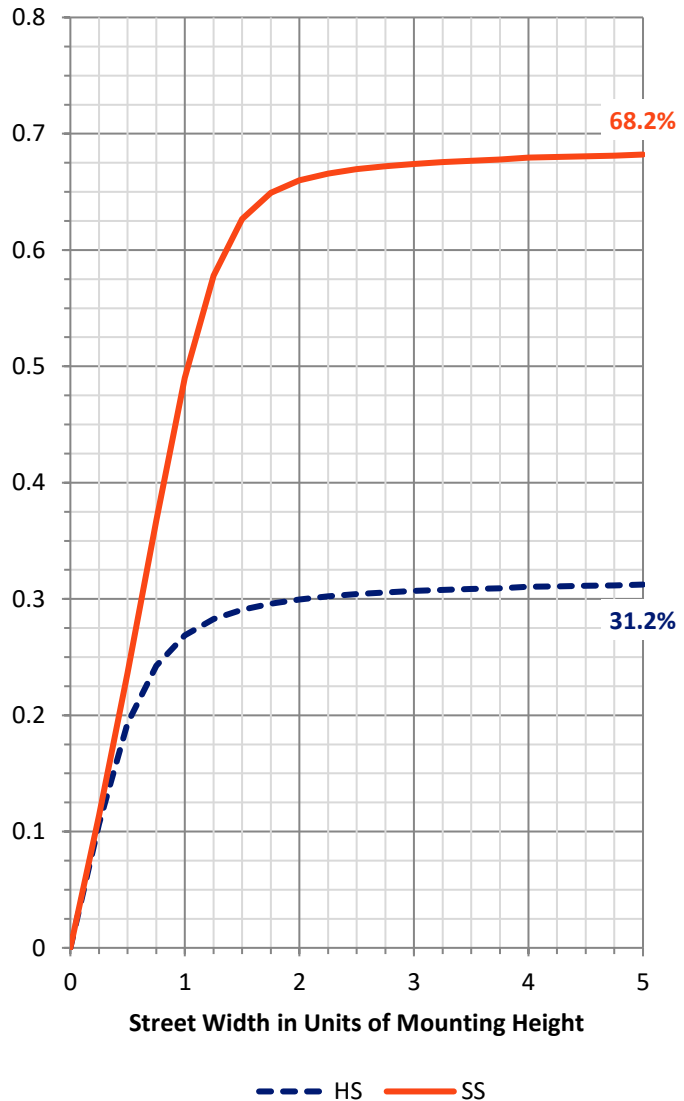
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2028.6	0.0	2028.6
	% Fixture	31.6	0.0	31.6
<b>Street Side</b>	Lumens	4400.1	0.0	4400.1
	% Fixture	68.4	0.0	68.4
<b>Total</b>	Lumens	6428.8	0.0	6428.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.6	1.1
10°-20°	239.5	3.7
20°-30°	485.6	7.6
30°-40°	840.4	13.1
40°-50°	1271.7	19.8
50°-60°	1491.1	23.2
60°-70°	1250.1	19.4
70°-80°	690.1	10.7
80°-90°	89.7	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°	6428.8	100.0
0°-180°	6428.8	100.0

**Coefficient of Utilization**



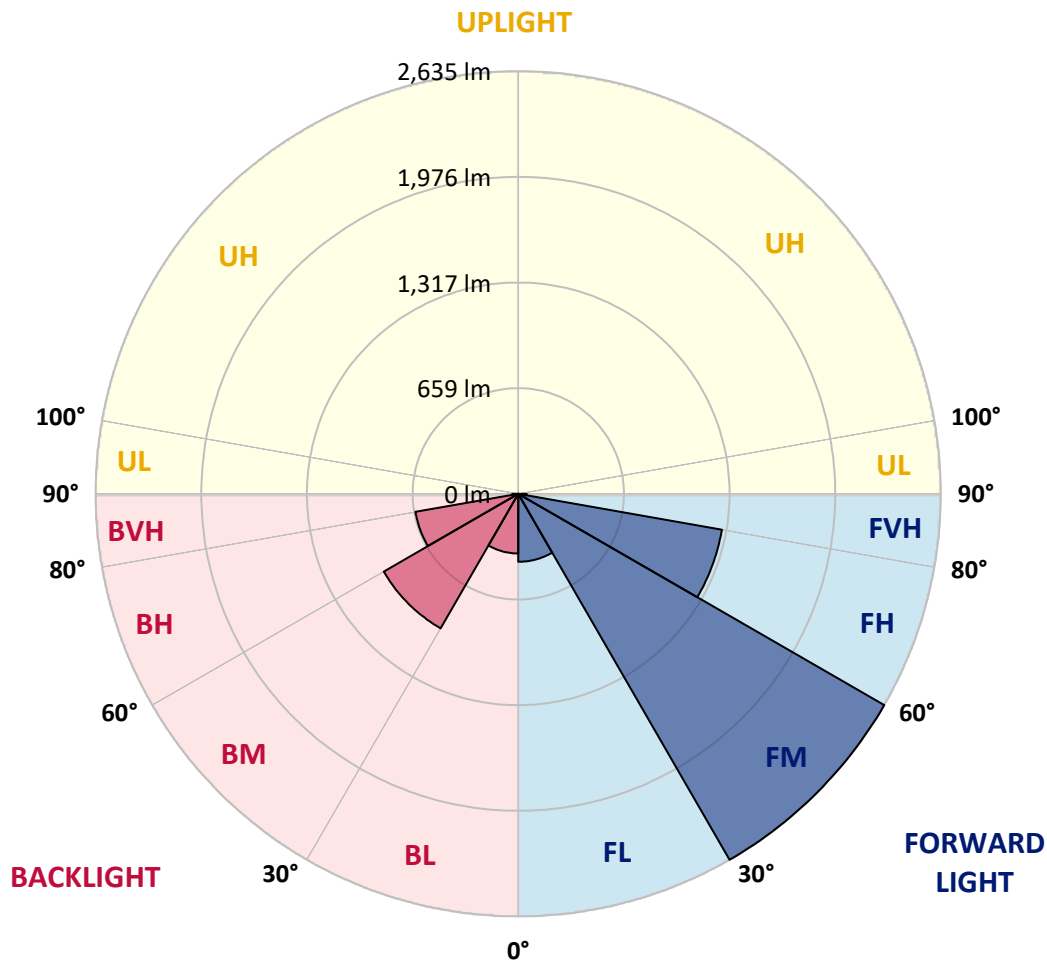
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	423.7	6.6			
FM (30°-60°)	2634.7	41.0			
FH (60°-80°)	1289.4	20.1			G1/1800
FVH (80°-90°)	52.2	0.8			G1/100
BL (0°-30°)	372.0	5.8	B1/500		
BM (30°-60°)	968.4	15.1	B1/1000		
BH (60°-80°)	650.8	10.1	B2/1000		G2/1000
BVH (80°-90°)	37.4	0.6			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 II Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4
2.5°	703.8	701.7	703.5	703.5	704.1	703.8	706.1	706.7	707.8	709.7	709.7
5°	696.8	696.4	699.5	702.1	704.8	707.0	710.1	714.4	715.1	717.4	720.5
7.5°	694.4	692.4	697.1	700.4	706.7	712.5	720.5	727.7	730.7	731.7	737.5
10°	712.5	709.1	713.4	715.4	720.8	726.4	735.7	747.4	750.8	754.8	761.2
12.5°	743.1	739.4	745.8	748.8	753.8	758.8	765.2	776.4	778.2	785.5	791.5
15°	785.2	780.8	784.8	788.4	796.8	801.4	807.8	818.9	818.9	824.5	828.8
17.5°	842.1	836.5	839.5	840.8	846.1	853.2	863.9	873.5	878.5	876.5	870.5
20°	927.2	920.2	920.2	913.6	911.5	917.2	931.2	944.5	949.9	939.5	924.9
22.5°	1054.9	1045.0	1039.2	1016.6	1007.6	1008.3	1022.2	1038.6	1042.9	1024.6	991.6
25°	1217.4	1201.7	1194.0	1160.7	1140.3	1122.7	1133.6	1154.7	1160.7	1138.1	1084.7
27.5°	1379.9	1380.9	1373.5	1333.4	1299.8	1267.4	1261.8	1283.8	1290.1	1264.4	1198.4
30°	1607.6	1583.9	1570.0	1521.9	1473.8	1428.5	1405.2	1414.2	1415.8	1385.2	1308.4
32.5°	1804.1	1798.1	1768.0	1726.0	1664.3	1593.3	1554.3	1540.0	1537.3	1493.5	1402.5
35°	2027.9	2024.6	1992.9	1942.8	1876.2	1777.5	1707.0	1666.0	1662.7	1601.3	1495.6
37.5°	2255.3	2255.3	2224.4	2169.6	2100.6	1977.2	1870.1	1805.1	1794.4	1714.4	1590.3
40°	2436.8	2425.8	2431.5	2408.4	2329.4	2198.3	2051.2	1956.8	1942.5	1846.4	1691.0
42.5°	2539.8	2536.2	2570.2	2595.9	2563.5	2458.8	2250.7	2121.2	2101.2	1991.9	1807.1
45°	2562.9	2558.9	2619.6	2713.6	2759.0	2715.9	2467.5	2294.4	2270.1	2144.0	1931.5
47.5°	2509.8	2501.8	2590.9	2739.3	2884.8	2960.4	2702.3	2482.1	2446.8	2292.0	2059.2
50°	2350.4	2342.7	2477.5	2674.6	2927.1	3126.6	2957.1	2681.3	2627.3	2450.8	2188.3
52.5°	2003.9	2007.6	2218.7	2489.5	2871.4	3230.0	3176.6	2891.1	2826.0	2613.2	2309.4
55°	1561.0	1569.0	1828.4	2126.6	2648.6	3214.3	3326.3	3107.2	3042.5	2766.0	2434.5
57.5°	1117.7	1153.0	1396.2	1691.4	2220.7	2965.7	3359.0	3312.7	3250.0	2932.7	2556.9
60°	724.5	730.7	980.9	1278.5	1691.0	2524.2	3292.6	3468.4	3419.4	3102.9	2659.3
62.5°	464.3	468.6	621.0	894.2	1217.1	1867.4	3069.2	3536.1	3521.1	3215.2	2757.7
65°	341.2	337.8	417.3	591.0	819.8	1151.7	2635.3	3503.4	3533.2	3285.6	2839.0
67.5°	284.8	280.1	319.2	409.3	604.0	654.1	1949.9	3291.0	3399.7	3277.6	2898.7
70°	259.5	255.5	279.2	303.8	471.3	437.9	983.0	2861.1	3028.5	3186.6	2889.1
72.5°	219.8	212.8	245.2	269.8	366.5	335.9	406.2	2197.7	2401.8	2894.7	2752.9
75°	170.5	165.7	193.4	237.5	275.5	262.2	256.9	1334.4	1557.3	2238.7	2408.4
77.5°	135.1	128.7	154.1	185.1	247.8	197.8	187.1	574.7	795.5	1429.2	1802.1
80°	101.7	96.0	117.1	146.5	190.4	149.1	121.1	234.5	299.8	724.1	906.2
82.5°	72.4	67.3	81.7	107.4	128.1	133.8	74.4	131.4	147.8	279.2	202.4
85°	46.3	43.4	54.7	67.3	81.4	86.1	45.4	68.7	75.3	115.1	84.4
87.5°	25.3	20.7	29.3	31.4	37.7	34.3	21.7	25.0	27.1	41.7	35.7
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°	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4	708.4
2.5°	711.1	712.1	715.4	716.5	718.7	721.8	723.8	725.8	725.8	727.7	727.7
5°	720.8	723.1	730.1	733.8	739.7	745.8	749.5	753.8	756.4	757.8	758.5
7.5°	739.4	743.1	753.2	759.4	769.8	778.2	783.8	789.8	791.1	794.8	793.5
10°	764.8	769.2	780.4	792.4	804.8	815.2	820.5	824.8	826.5	827.2	825.5
12.5°	793.8	800.1	814.8	829.5	842.6	851.5	852.8	851.9	847.2	843.2	843.2
15°	829.5	835.2	851.5	867.6	880.2	881.9	873.5	868.2	862.5	861.5	861.5
17.5°	872.2	875.1	890.2	905.9	906.9	901.2	888.9	883.9	878.5	874.8	875.1
20°	921.9	920.9	931.5	938.2	931.2	913.9	895.2	886.8	881.5	877.2	877.5
22.5°	981.2	973.5	972.2	970.6	951.9	915.5	890.2	879.6	871.1	865.2	867.2
25°	1067.6	1038.3	1017.9	1006.7	964.6	906.5	874.2	850.5	834.9	824.5	828.5
27.5°	1175.7	1126.4	1075.0	1047.3	964.6	888.2	835.5	797.1	771.4	760.8	766.1
30°	1278.8	1227.0	1151.4	1096.3	962.3	858.2	773.2	719.8	689.7	679.1	685.4
32.5°	1366.8	1310.5	1232.4	1150.0	956.5	809.4	695.8	636.7	607.7	595.0	601.4
35°	1448.5	1388.5	1313.7	1209.1	941.6	738.1	610.7	565.7	533.3	513.0	519.7
37.5°	1532.3	1460.8	1390.8	1262.4	914.5	654.8	545.3	507.0	468.9	441.6	449.0
40°	1623.3	1537.9	1473.2	1294.1	870.2	575.3	494.7	459.6	419.2	390.2	395.9
42.5°	1729.7	1630.3	1565.0	1310.5	809.4	519.0	461.7	427.2	389.2	365.5	370.2
45°	1840.8	1732.0	1648.6	1310.2	741.8	492.6	450.9	416.9	374.8	350.2	354.2
47.5°	1957.1	1838.4	1721.1	1288.7	683.1	496.3	445.0	394.5	348.2	324.2	327.5
50°	2073.9	1954.9	1791.1	1248.8	658.0	488.3	422.6	363.3	308.5	286.8	288.1
52.5°	2189.6	2078.6	1851.5	1191.8	632.7	458.6	393.9	322.6	292.1	277.2	277.2
55°	2306.0	2201.0	1917.2	1108.6	569.4	423.9	345.8	307.2	279.2	265.5	264.1
57.5°	2422.8	2342.4	1979.5	1025.6	489.6	381.2	319.5	288.5	266.2	254.5	252.5
60°	2544.2	2504.2	2043.8	949.3	410.9	326.6	300.2	273.5	250.8	237.8	236.8
62.5°	2669.3	2682.3	2094.3	850.9	338.6	293.2	282.8	255.5	233.5	221.1	220.8
65°	2795.4	2854.0	2127.3	714.4	274.5	261.5	264.1	235.9	213.5	202.7	202.4
67.5°	2890.4	2977.8	2118.0	540.7	225.1	231.4	240.8	215.1	194.1	185.7	186.1
70°	2901.1	2963.1	2025.9	370.2	188.5	202.1	214.8	194.7	173.1	167.1	167.5
72.5°	2759.0	2763.0	1769.4	241.8	159.4	177.4	187.5	174.1	153.1	147.1	146.8
75°	2386.4	2285.0	1299.1	159.4	133.5	152.4	161.7	152.4	132.1	133.5	128.7
77.5°	1808.1	1618.3	788.8	113.4	111.4	128.1	140.7	134.1	116.7	131.1	115.4
80°	931.5	875.6	351.9	84.8	88.0	102.4	115.7	107.1	92.4	88.0	80.4
82.5°	213.5	248.2	138.8	60.7	63.8	73.7	88.4	80.4	66.4	56.1	55.4
85°	74.7	81.7	61.4	38.0	37.3	46.0	60.1	53.7	45.0	36.0	38.0
87.5°	23.7	31.1	23.1	15.4	16.0	20.7	27.7	25.3	21.0	13.6	14.3
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)