

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: P960269

Luminaire Tested: **NAV-SB1C-722-U-T4FT**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960269  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1C-722-U-T4FT  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6269.9 lumens  
Efficiency: N/A  
Efficacy: 115.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

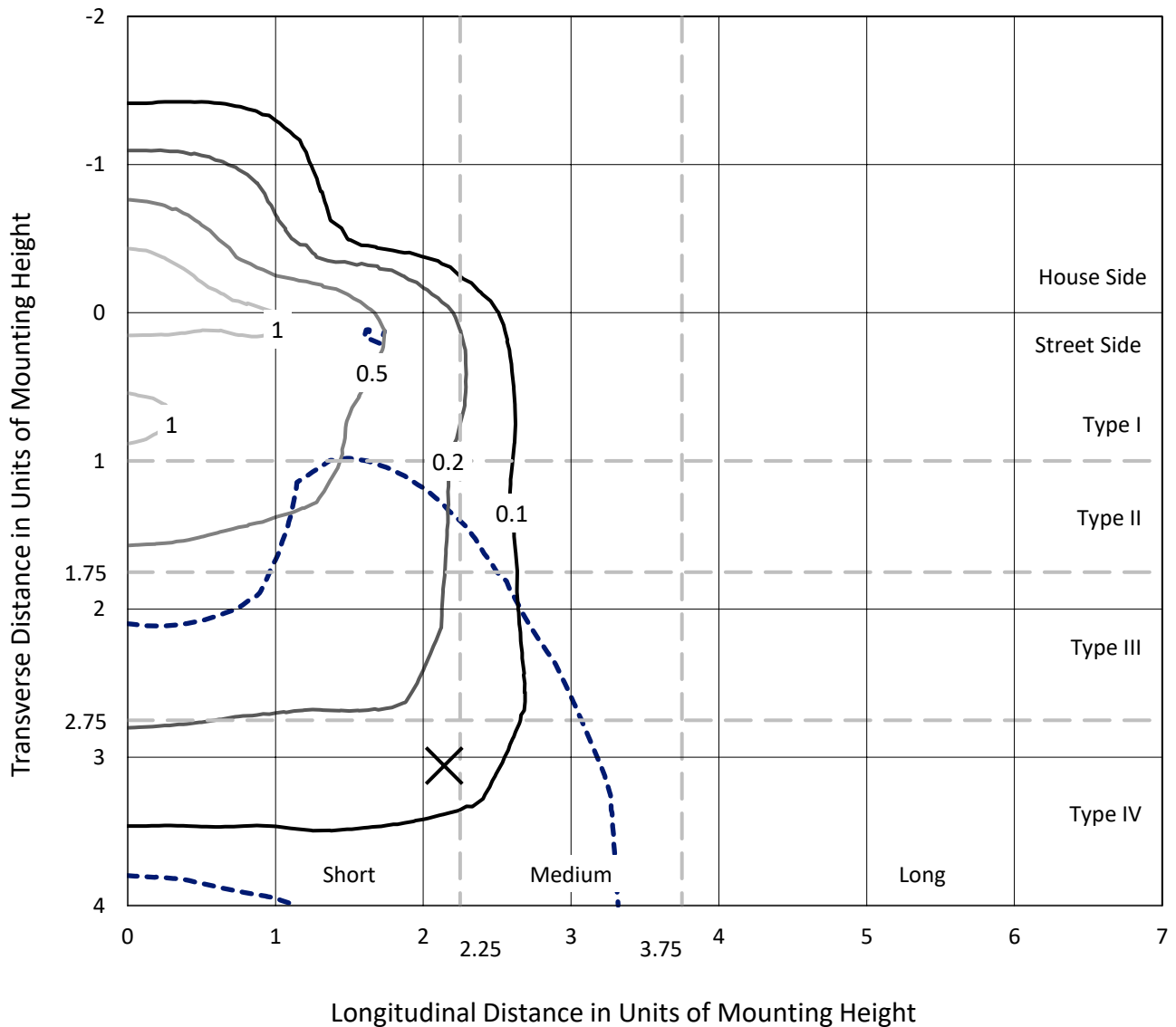
Input Watts (W): 54.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

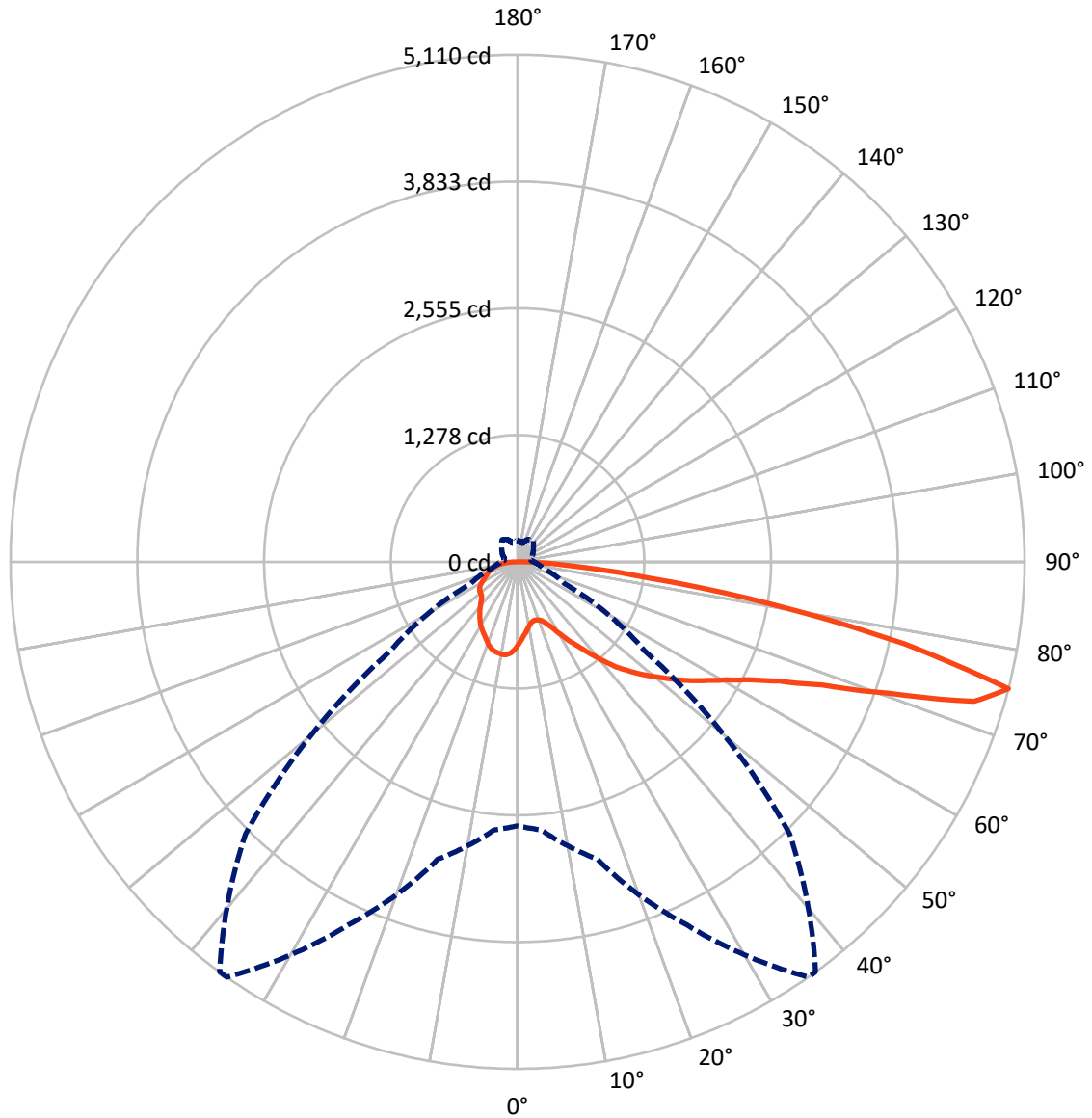
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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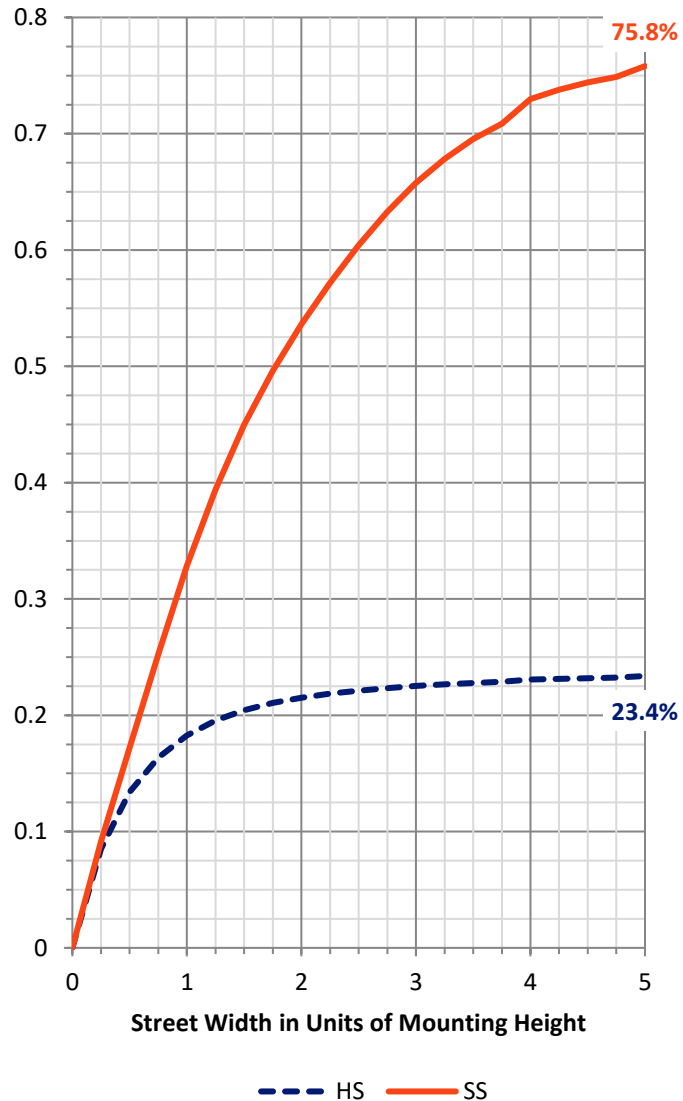
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1492.1	0.0	1492.1
	% Fixture	23.8	0.0	23.8
<b>Street Side</b>	Lumens	4777.8	0.0	4777.8
	% Fixture	76.2	0.0	76.2
<b>Total</b>	Lumens	6269.9	0.0	6269.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	79.1	1.3
10°-20°	228.2	3.6
20°-30°	383.2	6.1
30°-40°	595.5	9.5
40°-50°	883.9	14.1
50°-60°	1220.2	19.5
60°-70°	1480.4	23.6
70°-80°	1223.5	19.5
80°-90°	176.0	2.8
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°	6269.9	100.0
0°-180°	6269.9	100.0

**Coefficient of Utilization**

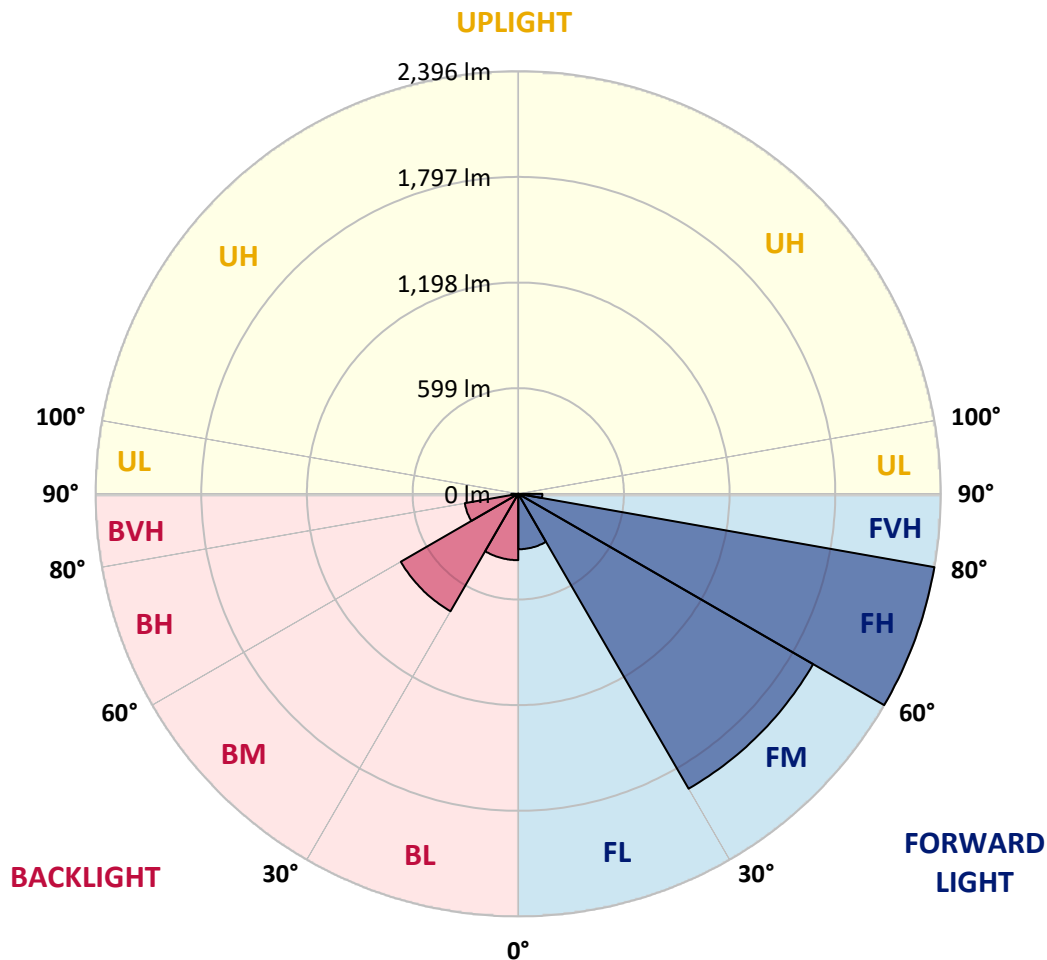


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	314.4	5.0			
FM (30°-60°)	1930.8	30.8			
FH (60°-80°)	2396.3	38.2			G2/5000
FVH (80°-90°)	136.3	2.2			G2/225
BL (0°-30°)	376.0	6.0	B1/500		
BM (30°-60°)	768.8	12.3	B1/1000		
BH (60°-80°)	307.6	4.9	B1/500		G1/500
BVH (80°-90°)	39.6	0.6			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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	835.5	835.5	835.5	835.5	835.5	835.5	835.5	835.5	835.5	835.5	835.5
2.5°	770.4	775.2	777.3	776.2	781.3	780.6	787.7	796.5	808.7	820.6	837.8
5°	711.1	716.2	720.6	724.7	734.5	737.6	748.8	765.7	788.0	810.8	839.3
7.5°	655.9	660.3	667.1	674.6	691.2	694.1	712.8	739.2	770.4	803.6	843.0
10°	610.8	615.2	622.3	630.8	651.5	655.2	679.0	714.1	754.8	796.8	847.1
12.5°	591.4	592.9	596.9	605.4	623.3	625.7	651.8	692.2	739.5	791.8	853.1
15°	590.4	593.2	593.5	597.9	612.8	613.9	637.9	677.9	730.1	790.8	862.3
17.5°	600.6	602.7	599.6	602.3	614.9	616.5	635.5	671.2	727.0	795.2	877.9
20°	627.7	629.5	620.2	616.5	625.7	627.1	645.6	675.5	730.1	804.3	899.2
22.5°	685.3	686.3	664.0	648.7	649.4	650.1	666.4	693.5	742.0	820.9	926.4
25°	775.2	774.5	738.9	709.4	692.5	688.7	699.6	722.6	762.0	843.0	961.2
27.5°	880.3	875.1	839.6	795.5	758.6	753.2	750.8	760.7	790.5	872.1	1004.0
30°	998.9	994.1	955.8	898.2	847.1	838.2	815.9	810.8	832.8	911.7	1063.3
32.5°	1129.0	1126.0	1080.2	1010.4	942.0	931.7	894.1	880.6	897.9	971.8	1145.9
35°	1238.2	1235.4	1197.5	1125.7	1041.9	1029.4	991.1	975.8	984.6	1048.7	1254.1
37.5°	1336.8	1335.5	1302.9	1246.3	1159.9	1144.6	1101.6	1096.5	1094.8	1150.0	1385.3
40°	1428.3	1425.0	1391.0	1361.2	1297.1	1283.3	1245.3	1240.9	1228.1	1274.8	1533.7
42.5°	1529.7	1520.9	1471.7	1457.9	1440.5	1429.1	1406.3	1407.0	1378.5	1415.4	1691.0
45°	1612.4	1607.3	1556.8	1548.7	1567.3	1562.5	1582.2	1587.3	1532.1	1562.9	1854.4
47.5°	1701.2	1696.5	1653.7	1648.0	1698.4	1699.9	1769.4	1771.0	1681.8	1716.1	2018.1
50°	1810.7	1803.9	1761.6	1768.6	1825.2	1830.3	1957.4	1945.9	1819.8	1871.6	2180.5
52.5°	1882.8	1886.9	1877.8	1889.3	1966.6	1971.3	2142.5	2113.0	1956.4	2025.2	2339.8
55°	1936.1	1944.2	1972.7	1999.2	2115.7	2120.4	2317.0	2272.0	2069.6	2167.6	2489.6
57.5°	2004.6	1993.0	2046.2	2097.8	2257.4	2270.0	2486.9	2425.1	2169.9	2290.3	2592.3
60°	2102.9	2094.7	2136.1	2212.4	2416.0	2436.0	2666.5	2563.1	2243.5	2387.5	2612.3
62.5°	2302.1	2281.9	2288.2	2355.7	2616.0	2642.4	2869.2	2683.4	2280.1	2425.6	2505.2
65°	2600.1	2565.2	2532.7	2579.4	2897.7	2923.8	3098.0	2778.1	2266.6	2352.0	2220.8
67.5°	2975.3	2940.7	2900.7	2944.8	3312.6	3333.2	3380.3	2831.3	2159.8	2068.7	1718.1
70°	3284.7	3271.9	3319.7	3501.0	3975.2	3975.9	3742.4	2787.2	1867.2	1466.7	994.1
72.5°	3243.7	3235.9	3487.8	4048.4	4810.3	4792.4	4085.0	2453.6	1257.9	661.6	372.5
75°	2661.1	2711.6	3101.8	4038.6	5110.3	5108.0	3875.2	1559.8	520.3	274.2	192.5
77.5°	1427.0	1507.0	2013.7	2981.7	3989.4	4049.5	2724.4	545.7	223.3	175.6	133.2
80°	465.4	535.2	802.7	1518.1	2592.3	2581.1	1167.7	214.2	152.8	124.4	92.1
82.5°	197.6	205.7	358.6	716.9	1330.3	1309.7	371.9	123.0	107.4	85.1	57.0
85°	77.3	86.4	158.3	331.5	576.3	563.6	134.3	61.0	68.8	55.6	33.9
87.5°	25.4	30.9	56.6	113.6	179.3	172.8	32.9	21.0	29.8	25.4	12.2
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°	835.5	835.5	835.5	835.5	835.5	835.5	835.5	835.5	835.5	835.5	835.5
2.5°	842.7	848.1	854.4	864.0	872.1	878.9	886.0	890.4	892.2	897.2	896.9
5°	848.7	860.6	876.5	892.2	907.3	916.6	924.7	928.8	932.4	935.2	935.8
7.5°	858.8	874.1	899.2	919.5	932.4	939.9	945.4	943.9	945.4	946.0	947.0
10°	867.7	889.1	918.9	938.2	948.0	948.3	947.0	942.3	939.9	940.2	941.0
12.5°	878.2	901.9	934.2	950.4	953.1	945.7	939.9	931.7	928.8	927.3	926.7
15°	892.5	919.5	950.8	956.8	950.1	940.5	930.8	917.6	910.7	905.4	907.0
17.5°	909.8	939.6	963.6	959.2	944.6	929.1	913.2	893.1	879.2	873.5	873.8
20°	933.8	960.6	973.4	954.2	932.1	908.4	881.3	856.9	844.0	838.2	837.5
22.5°	963.0	988.7	983.0	945.4	914.1	876.2	842.2	824.3	817.8	813.8	814.5
25°	997.8	1019.9	989.7	932.4	884.7	833.4	807.4	801.7	798.6	795.5	795.5
27.5°	1043.2	1055.1	994.9	913.5	838.6	788.0	778.6	779.6	778.6	773.5	774.5
30°	1103.3	1101.0	999.6	882.6	785.7	747.0	747.7	752.1	752.8	749.4	751.1
32.5°	1182.2	1158.1	1001.9	842.7	735.1	711.1	711.8	716.6	720.0	714.1	716.9
35°	1277.9	1225.0	998.2	792.4	696.2	676.9	671.8	673.1	674.1	668.7	672.5
37.5°	1389.4	1299.9	981.6	736.9	664.0	643.3	632.5	623.3	617.9	612.8	616.2
40°	1511.7	1381.6	951.1	682.6	628.1	607.7	591.4	574.2	555.9	549.1	552.2
42.5°	1639.8	1465.6	914.1	630.8	586.7	570.1	552.8	527.8	500.3	486.4	488.1
45°	1772.7	1551.7	877.9	579.6	544.4	537.2	517.2	487.1	457.3	439.6	438.3
47.5°	1902.8	1633.0	824.6	528.1	504.7	512.5	496.9	469.1	435.9	408.1	405.1
50°	2027.2	1709.3	737.6	475.9	472.5	505.0	490.2	450.1	412.2	376.6	373.5
52.5°	2150.7	1771.0	626.1	428.4	455.2	503.0	481.3	437.3	390.8	353.5	349.4
55°	2255.4	1802.9	518.5	387.8	430.1	485.7	470.8	422.0	360.6	321.0	317.5
57.5°	2315.1	1777.1	429.1	347.8	395.5	457.3	452.8	389.5	324.7	294.2	290.2
60°	2289.2	1672.7	355.9	312.8	362.6	426.4	421.7	357.2	297.2	268.4	264.3
62.5°	2147.3	1473.7	298.0	282.4	332.8	394.8	390.4	332.5	276.2	248.5	244.1
65°	1861.2	1198.8	252.9	257.0	302.7	356.9	363.4	311.8	259.6	232.5	228.1
67.5°	1419.5	868.4	217.6	234.9	273.2	319.6	338.2	296.9	245.7	220.0	215.9
70°	809.0	493.1	187.8	213.5	247.1	285.1	319.0	285.1	230.8	209.5	206.7
72.5°	306.8	226.4	162.4	192.2	222.0	255.9	297.6	266.4	213.5	197.6	194.9
75°	163.7	138.0	136.6	167.1	193.2	227.4	270.8	248.2	200.7	208.8	215.6
77.5°	111.5	97.6	114.2	143.0	161.6	195.9	242.3	220.3	173.8	173.2	159.7
80°	77.3	69.2	92.9	115.2	125.0	164.7	211.5	189.1	141.7	132.2	126.4
82.5°	46.4	45.1	69.5	86.1	88.5	127.1	175.3	158.7	115.9	101.0	101.7
85°	25.4	26.8	44.4	50.5	51.6	88.8	137.2	122.7	89.2	74.9	75.5
87.5°	7.1	9.1	16.3	20.0	24.7	46.1	81.7	72.9	44.8	31.2	31.2
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)