

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: P959787

Luminaire Tested: **NAV-SB1B-730-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959787
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-730-U-SL4
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5723.6 lumens
Efficiency: N/A
Efficacy: 143.8 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

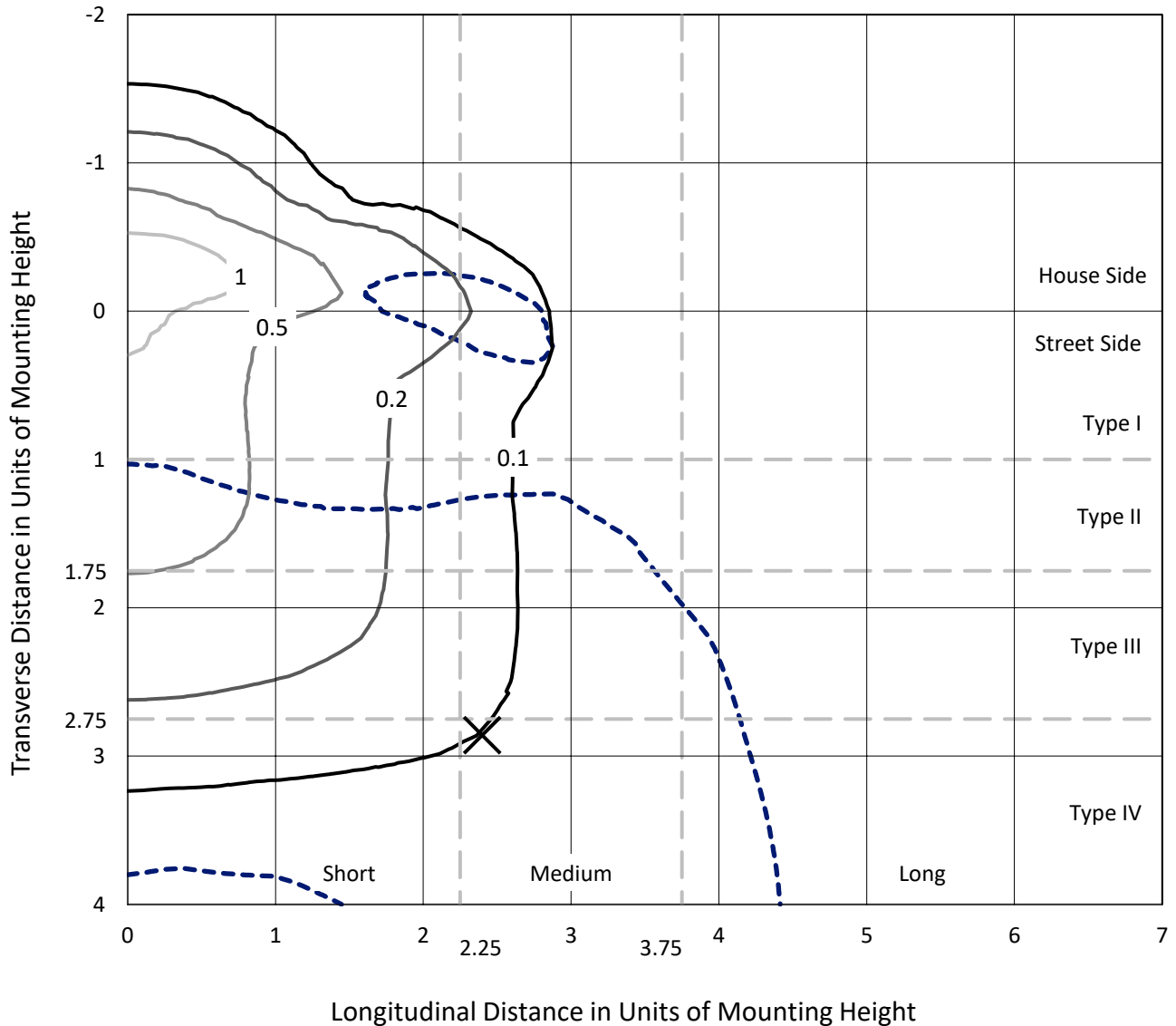
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

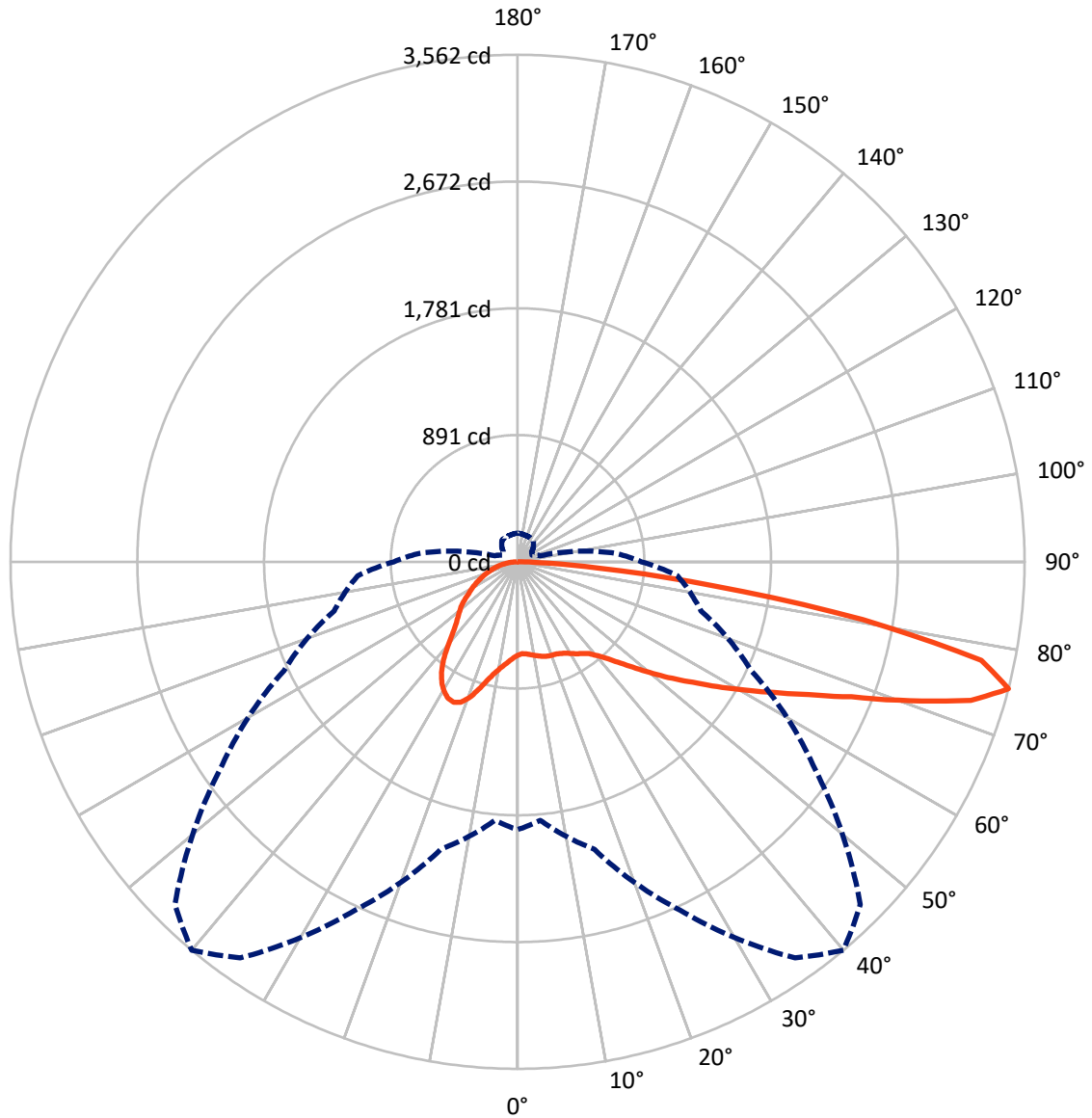
× Max cd
 - - - 1/2 Max cd



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 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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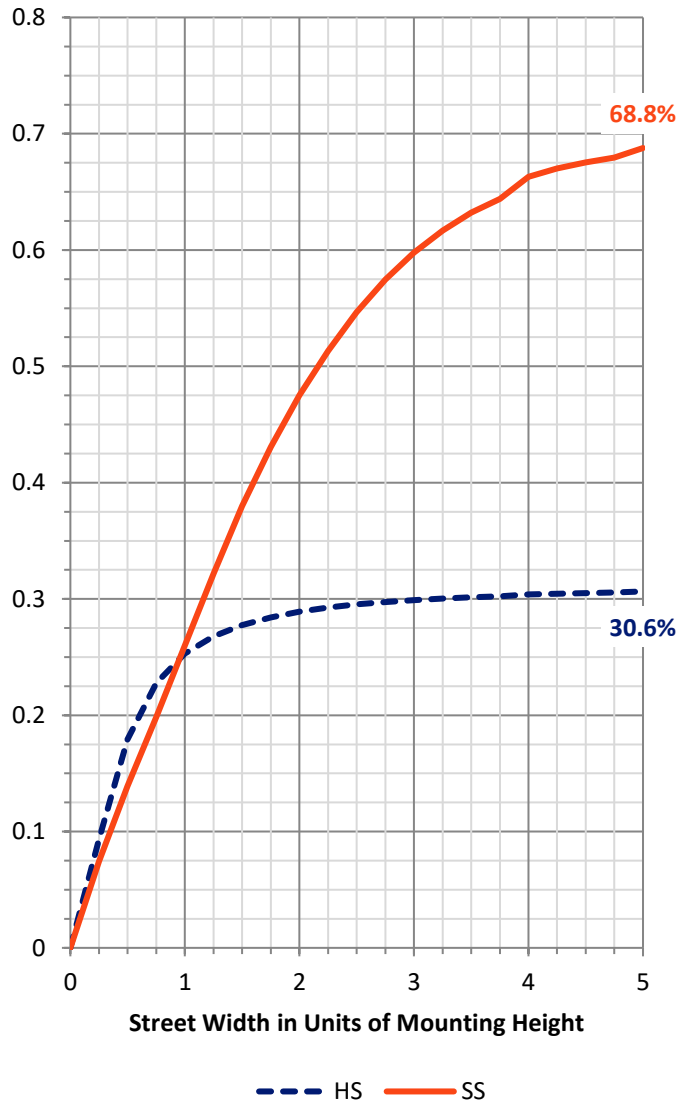
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1773.4	0.0	1773.4
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	3950.2	0.0	3950.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	5723.6	0.0	5723.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.3	1.1
10°-20°	219.3	3.8
20°-30°	400.5	7.0
30°-40°	568.0	9.9
40°-50°	767.0	13.4
50°-60°	1031.8	18.0
60°-70°	1309.6	22.9
70°-80°	1188.6	20.8
80°-90°	173.3	3.0
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°	5723.6	100.0
0°-180°	5723.6	100.0

Coefficient of Utilization

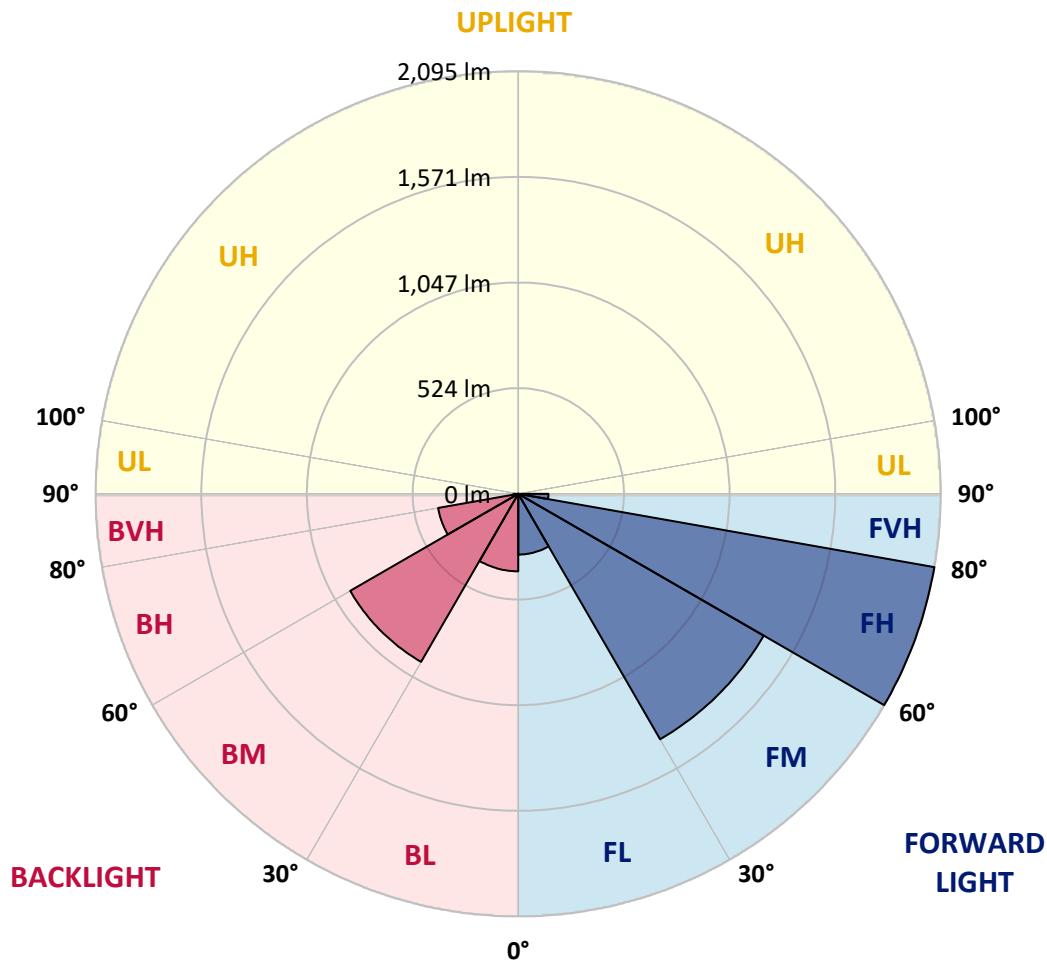


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.1	5.3			
FM (30°-60°)	1405.0	24.5			
FH (60°-80°)	2094.7	36.6			G2/5000
FVH (80°-90°)	149.4	2.6			G2/225
BL (0°-30°)	384.1	6.7	B1/500		
BM (30°-60°)	961.9	16.8	B1/1000		
BH (60°-80°)	403.5	7.0	B1/500		G1/500
BVH (80°-90°)	23.8	0.4			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°	40°	45°	55°	65°	75°	85°
0°	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5
2.5°	644.5	648.1	647.2	646.0	646.0	646.3	646.0	648.1	650.3	652.4	655.7
5°	651.2	654.8	653.0	651.5	650.3	650.0	649.0	648.7	650.0	652.7	657.2
7.5°	664.2	667.9	665.1	662.4	660.0	658.8	657.5	655.7	654.8	656.3	662.7
10°	678.8	682.4	679.1	674.2	670.2	668.8	667.6	665.7	664.5	665.4	672.4
12.5°	693.3	697.0	692.5	685.7	680.6	679.7	678.1	677.5	677.3	677.0	684.0
15°	707.0	710.0	704.3	696.4	691.0	689.4	687.9	688.8	690.3	692.2	700.1
17.5°	717.6	720.7	712.2	701.8	696.7	696.1	695.2	698.2	702.4	707.0	716.8
20°	727.3	730.4	719.4	705.5	699.5	699.5	699.8	706.1	712.2	718.8	732.3
22.5°	741.0	743.4	730.1	710.9	702.1	702.7	705.2	711.6	719.1	728.3	746.8
25°	761.4	763.2	746.8	721.3	711.2	713.1	715.2	718.2	725.5	736.2	761.1
27.5°	794.2	795.7	774.1	739.5	724.4	727.3	730.4	728.3	731.6	740.7	772.5
30°	840.3	841.2	813.8	768.0	746.5	748.0	748.6	739.8	733.4	740.7	780.7
32.5°	894.9	894.6	862.1	802.7	771.7	770.2	765.0	747.7	732.8	739.2	788.1
35°	979.6	976.3	934.4	851.3	800.2	790.8	778.7	756.6	735.8	737.7	794.5
37.5°	1119.9	1109.6	1051.5	930.8	842.8	818.8	800.8	770.8	742.5	737.1	802.1
40°	1278.1	1265.0	1201.2	1039.8	906.5	867.9	839.1	791.1	753.5	739.8	813.2
42.5°	1465.6	1447.1	1378.5	1168.2	987.2	931.3	888.0	816.9	769.6	748.6	828.4
45°	1696.1	1671.5	1574.3	1312.9	1089.0	1014.5	956.5	856.1	794.2	765.6	851.3
47.5°	1928.9	1935.0	1796.8	1478.7	1210.9	1117.1	1042.4	914.9	829.9	792.9	888.0
50°	2176.3	2180.6	2018.1	1662.3	1349.4	1233.1	1139.0	980.8	879.8	831.8	942.9
52.5°	2369.4	2370.0	2219.1	1854.5	1493.5	1360.6	1243.1	1056.2	937.5	883.3	1016.1
55°	2490.2	2488.7	2360.0	2036.4	1659.4	1494.4	1358.5	1141.7	1007.9	944.1	1108.0
57.5°	2578.0	2573.4	2457.1	2192.7	1836.0	1652.6	1489.0	1238.9	1091.0	1016.4	1229.2
60°	2611.3	2608.6	2523.0	2327.8	2021.8	1827.5	1639.6	1347.6	1185.4	1101.7	1384.9
62.5°	2624.1	2629.2	2587.6	2458.7	2220.7	2021.2	1805.0	1477.4	1291.7	1198.2	1549.1
65°	2669.0	2678.4	2669.9	2629.8	2445.2	2247.9	2024.5	1632.0	1407.6	1301.8	1720.7
67.5°	2758.0	2767.4	2771.0	2834.7	2719.7	2530.6	2298.4	1824.5	1543.3	1409.2	1849.7
70°	2755.8	2753.0	2817.4	2997.8	3063.3	2921.9	2667.5	2061.3	1705.2	1498.4	1866.0
72.5°	2508.4	2486.5	2638.7	2996.0	3349.3	3330.5	3118.3	2366.6	1844.8	1509.3	1619.3
75°	1881.8	1823.6	2092.2	2700.0	3397.0	3562.4	3404.8	2556.0	1811.7	1333.6	1126.9
77.5°	804.7	746.2	1062.8	1998.7	3040.3	3330.2	3141.9	2230.0	1446.2	881.9	553.4
80°	210.6	210.3	321.1	906.2	2067.6	2459.3	2157.5	1440.1	826.4	315.1	152.7
82.5°	87.1	85.0	118.1	352.5	1010.2	1380.1	1126.3	642.4	298.4	85.3	50.7
85°	32.5	32.2	57.4	121.8	356.4	569.2	411.9	164.2	74.4	41.6	22.8
87.5°	9.1	8.8	12.4	42.2	86.8	131.7	70.4	27.1	20.9	16.4	6.7
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°	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5	654.5
2.5°	656.6	658.2	660.9	663.0	665.7	668.8	673.0	675.8	678.4	680.3	679.1
5°	659.4	662.7	669.6	676.7	684.9	692.5	701.2	707.7	712.8	714.3	714.9
7.5°	665.4	670.9	682.8	694.5	707.7	720.1	732.8	743.7	752.6	755.9	756.2
10°	676.1	683.4	700.1	716.8	734.0	753.2	769.6	785.4	797.8	803.0	803.3
12.5°	689.4	698.5	720.4	743.4	767.4	793.9	815.1	834.6	850.0	857.0	857.0
15°	706.7	718.5	746.5	777.5	812.6	849.4	876.4	898.0	915.2	923.7	923.1
17.5°	725.5	741.3	776.5	823.3	873.7	922.0	953.6	969.3	987.2	995.4	995.1
20°	743.7	763.2	813.5	881.6	948.6	1000.0	1025.5	1029.7	1030.9	1031.9	1034.2
22.5°	762.6	788.6	860.0	955.0	1026.9	1062.5	1066.1	1048.0	1022.4	1010.5	1013.9
25°	783.2	817.8	920.8	1036.1	1094.4	1098.6	1070.7	1026.3	978.2	955.9	959.3
27.5°	803.3	851.6	993.6	1113.5	1143.0	1105.6	1045.5	982.7	924.3	901.0	903.7
30°	823.3	890.1	1074.0	1181.2	1165.1	1088.3	1005.7	935.6	877.0	852.4	855.2
32.5°	843.7	935.0	1166.7	1230.1	1161.1	1051.5	956.2	882.8	831.2	805.3	808.7
35°	866.7	990.3	1254.4	1256.8	1134.8	997.5	891.0	819.7	774.7	754.1	758.6
37.5°	896.8	1060.4	1331.8	1263.5	1088.7	918.3	810.0	745.0	708.0	698.5	705.2
40°	934.1	1144.7	1390.9	1252.9	1020.3	822.0	721.3	669.4	648.4	650.6	657.8
42.5°	982.7	1239.2	1432.5	1225.5	925.3	722.8	643.6	620.5	630.5	639.0	646.9
45°	1045.8	1337.2	1458.4	1179.1	817.8	638.7	597.8	603.2	610.8	611.7	617.8
47.5°	1126.6	1436.5	1475.4	1108.9	708.3	579.5	568.6	569.8	568.3	561.9	566.7
50°	1227.3	1533.0	1490.6	1016.1	615.0	542.5	527.9	523.7	502.8	482.1	484.8
52.5°	1342.1	1621.7	1496.9	900.7	542.5	511.5	487.8	461.1	422.0	415.6	417.7
55°	1469.5	1703.7	1480.5	758.9	481.4	471.7	435.9	403.7	399.5	394.0	394.9
57.5°	1622.0	1792.0	1447.1	600.8	418.9	425.3	390.4	394.0	386.4	377.9	376.4
60°	1788.6	1883.3	1388.6	456.5	354.2	367.4	378.5	378.2	376.2	369.1	366.7
62.5°	1938.6	1943.5	1273.2	349.7	297.5	322.4	353.0	352.7	351.0	347.0	345.4
65°	2027.9	1934.4	1080.8	275.3	250.7	285.4	318.5	320.8	321.1	320.8	320.8
67.5°	2012.1	1827.8	816.6	219.1	212.2	247.7	284.1	287.5	289.9	290.5	291.1
70°	1833.6	1593.8	532.5	174.9	177.9	214.6	251.6	255.0	257.2	259.5	260.8
72.5°	1429.3	1171.8	304.8	141.4	147.8	186.1	219.5	223.4	224.7	229.2	231.0
75°	870.9	689.1	164.5	111.4	121.5	159.1	187.6	192.2	194.2	199.8	200.4
77.5°	414.1	298.4	93.8	86.8	97.8	130.0	158.5	163.6	157.8	160.9	158.5
80°	139.9	110.8	59.2	66.2	74.7	101.4	126.9	132.0	119.9	119.3	118.1
82.5°	48.9	44.9	37.6	44.0	48.3	72.6	95.9	102.6	89.3	89.0	84.7
85°	19.2	18.2	20.9	24.0	28.8	44.6	63.1	66.5	54.9	44.3	43.7
87.5°	4.0	4.2	5.1	5.4	8.8	15.5	22.8	27.9	22.1	18.9	17.3
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)