

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: P960785

Luminaire Tested: **NAV-SB1D-722-U-T2-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P960785  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1D-722-U-T2-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH  
HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

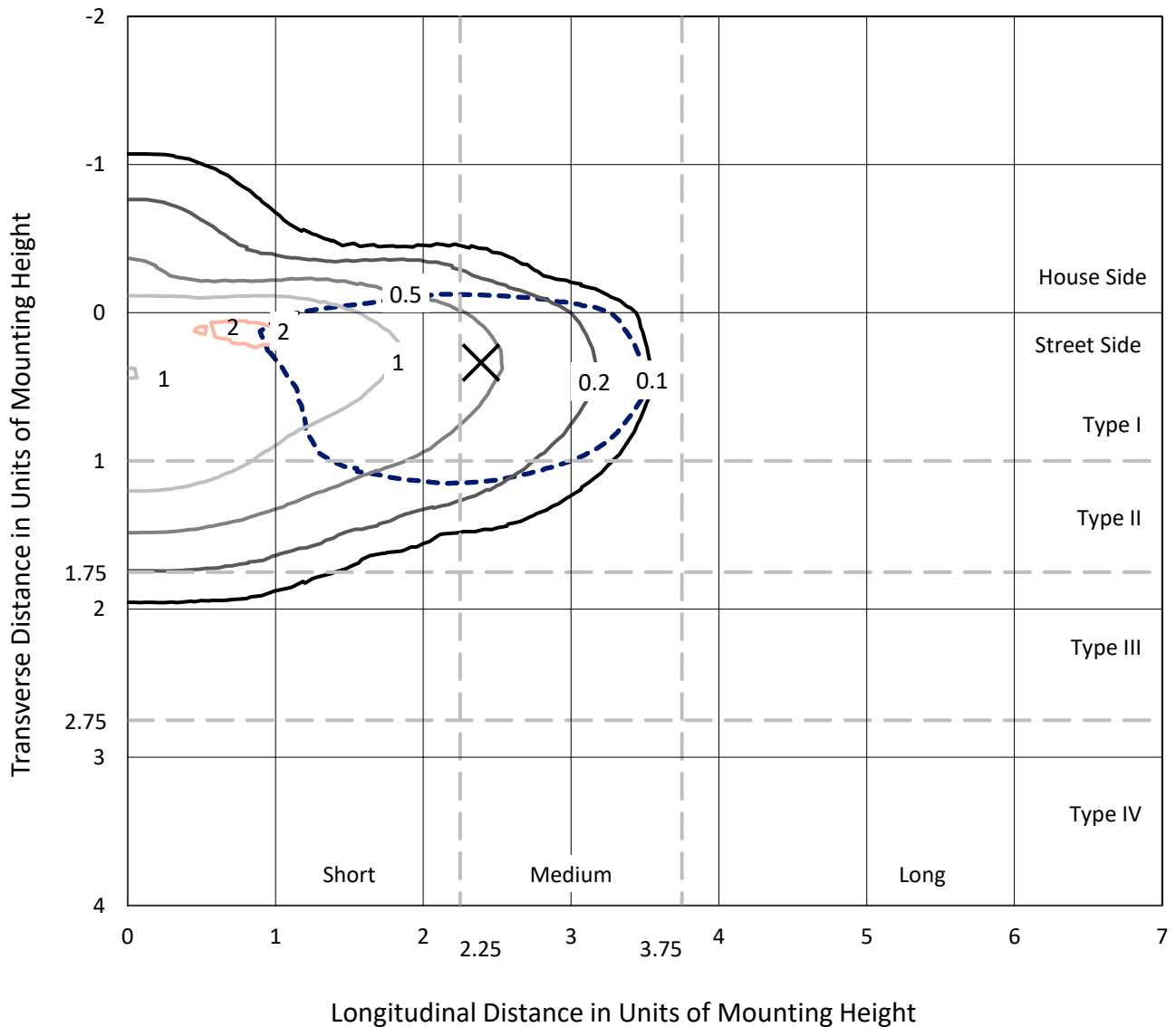
Lumens per Lamp: N/A  
Luminaire Lumens: 6294.5 lumens  
Efficiency: N/A  
Efficacy: 79.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 79.6  
Input Voltage (V): NR  
Input Current (Ain): 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

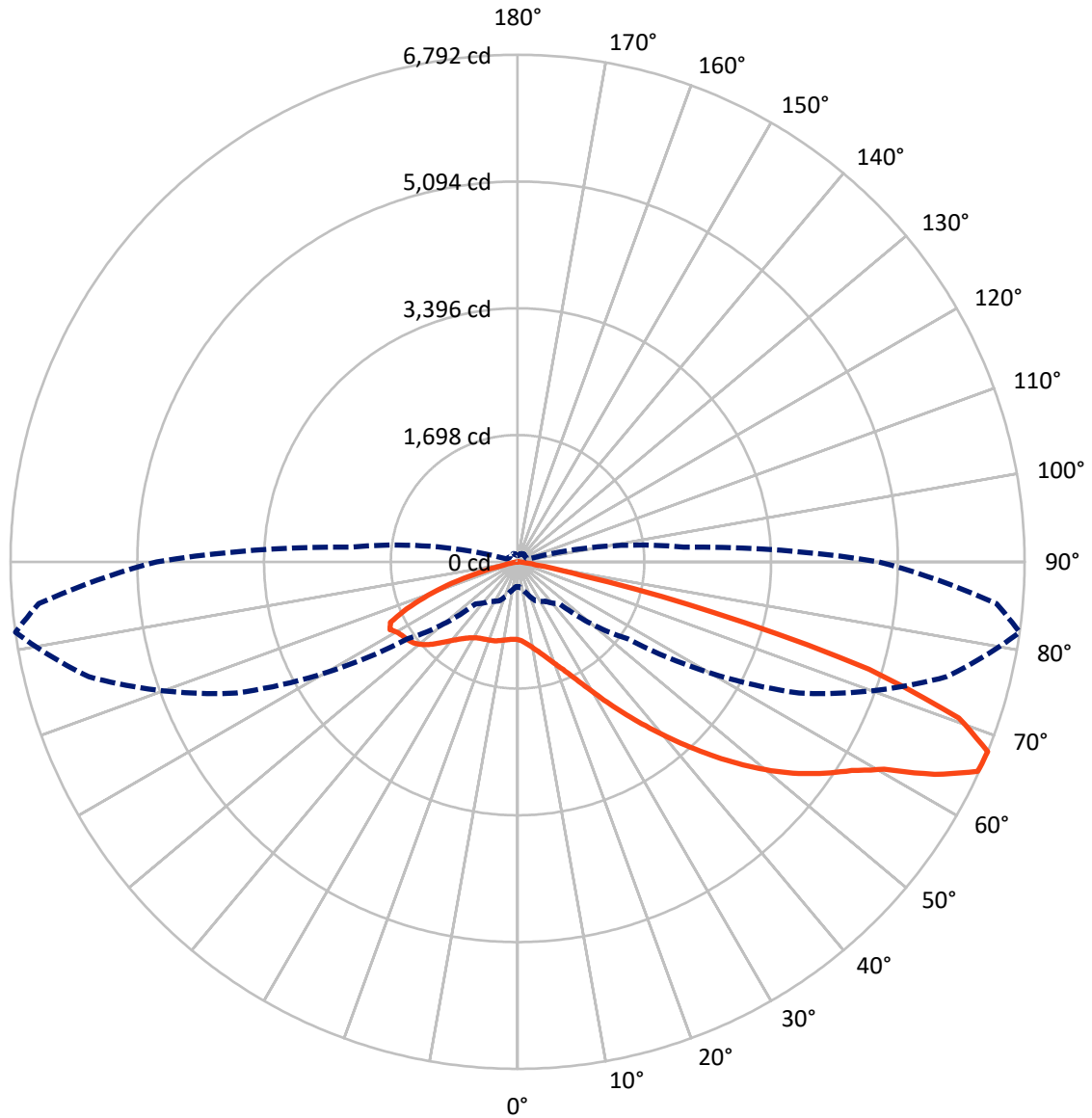
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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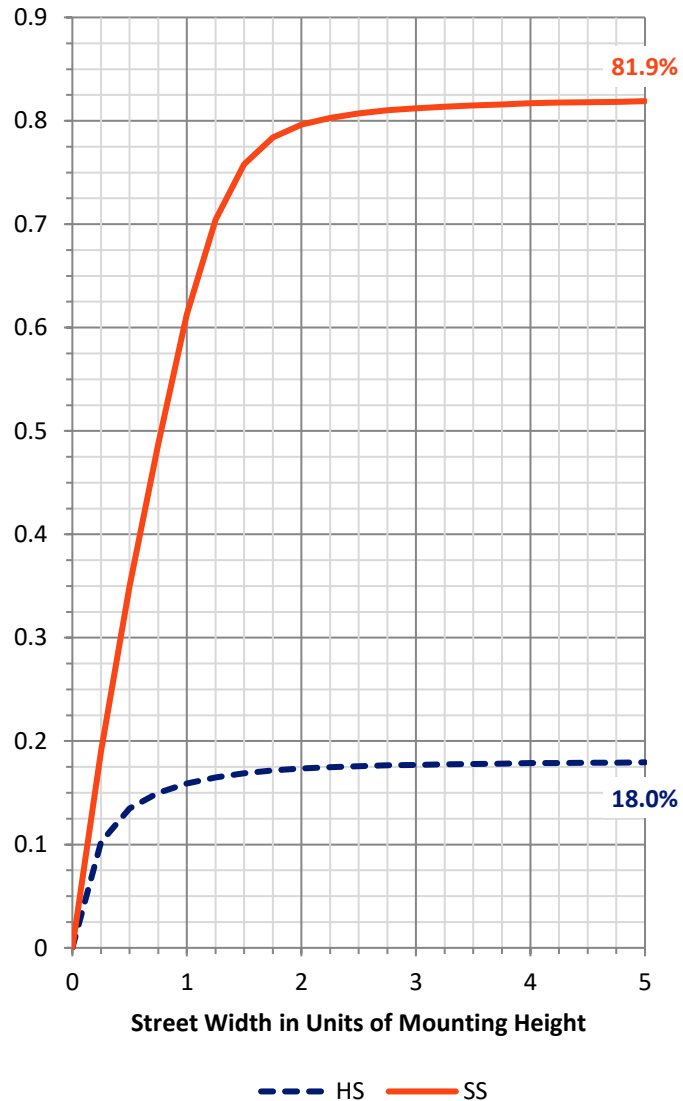
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1140.2	0.0	1140.2
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	5154.3	0.0	5154.3
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	6294.5	0.0	6294.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.9	1.5
10°-20°	241.4	3.8
20°-30°	386.7	6.1
30°-40°	683.8	10.9
40°-50°	1198.0	19.0
50°-60°	1597.8	25.4
60°-70°	1487.5	23.6
70°-80°	570.9	9.1
80°-90°	35.5	0.6
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°	6294.5	100.0
0°-180°	6294.5	100.0

**Coefficient of Utilization**



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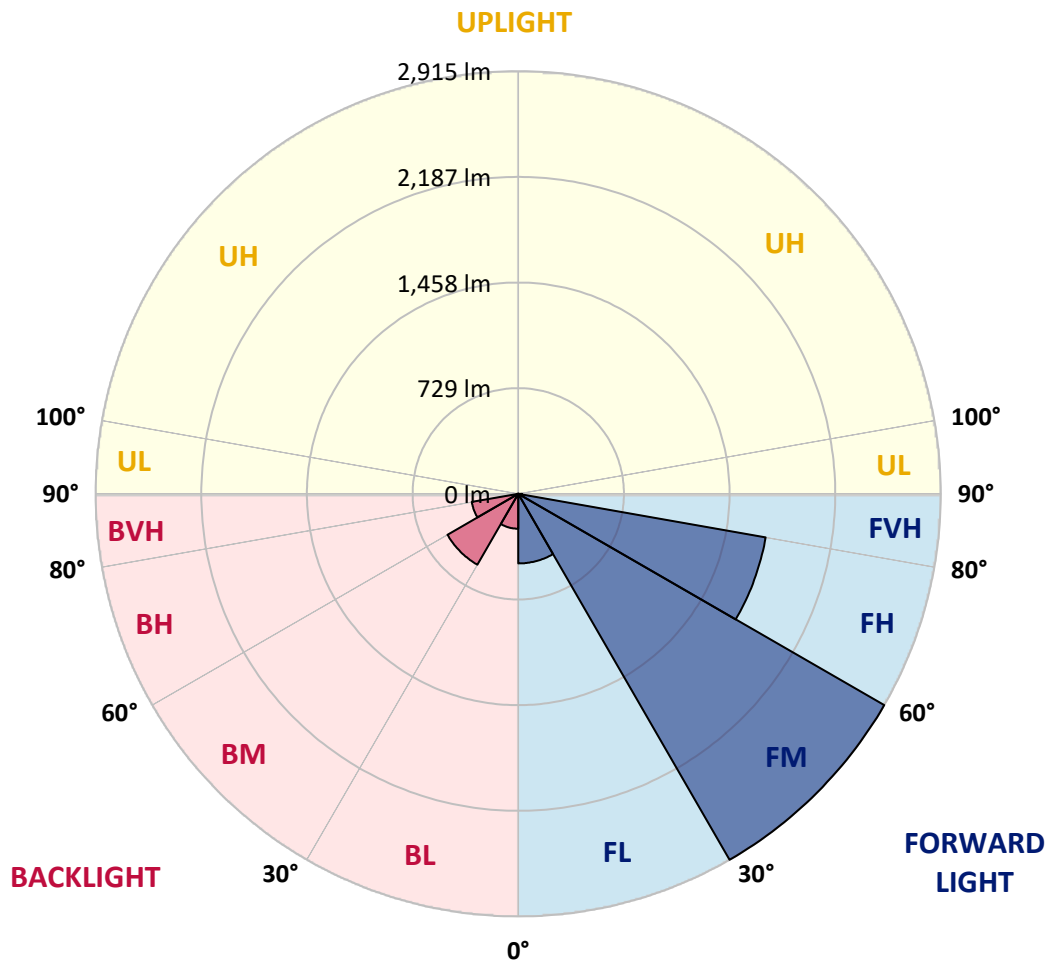
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	480.2	7.6			
FM (30°-60°)	2915.4	46.3			
FH (60°-80°)	1733.0	27.5			G1/1800
FVH (80°-90°)	25.8	0.4			G1/100
BL (0°-30°)	240.8	3.8	B1/500		
BM (30°-60°)	564.3	9.0	B1/1000		
BH (60°-80°)	325.4	5.2	B1/500		G1/500
BVH (80°-90°)	9.7	0.2			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8
2.5°	1102.2	1108.5	1104.8	1103.1	1099.9	1095.3	1091.7	1080.5	1068.7	1060.9	1058.2
5°	1124.3	1130.7	1130.3	1132.1	1134.4	1135.7	1134.8	1122.1	1105.4	1092.1	1084.4
7.5°	1105.4	1112.5	1118.5	1127.5	1143.4	1160.2	1168.3	1165.6	1148.4	1130.3	1120.7
10°	1051.4	1059.1	1073.2	1094.5	1128.0	1164.2	1194.6	1208.7	1197.8	1177.8	1164.7
12.5°	952.6	960.3	988.0	1034.2	1090.4	1153.3	1211.3	1249.0	1251.7	1231.7	1216.4
15°	841.5	849.3	878.7	936.7	1022.4	1123.5	1220.5	1291.6	1315.6	1298.4	1279.8
17.5°	772.6	779.5	801.7	848.4	937.7	1063.6	1217.3	1336.9	1391.7	1378.1	1356.0
20°	751.8	757.8	768.1	800.8	875.1	1001.5	1196.4	1379.5	1473.7	1466.1	1441.1
22.5°	774.1	779.5	782.7	797.1	843.9	960.7	1170.1	1423.0	1569.0	1569.9	1539.4
25°	825.2	830.7	827.1	836.1	856.5	948.0	1160.2	1474.3	1688.6	1698.5	1664.1
27.5°	909.6	910.0	901.4	901.0	904.2	967.1	1170.6	1529.1	1839.5	1858.1	1815.5
30°	1078.6	1071.8	1038.7	1002.9	986.6	1024.2	1199.6	1593.9	2017.6	2050.7	1997.2
32.5°	1339.2	1329.2	1268.4	1182.8	1096.8	1116.2	1251.7	1667.8	2211.5	2271.4	2206.1
35°	1622.0	1619.3	1555.8	1428.4	1278.0	1247.2	1336.5	1764.7	2423.2	2518.4	2440.8
37.5°	1884.8	1883.4	1847.2	1697.2	1514.1	1429.8	1472.4	1891.6	2649.8	2787.6	2696.1
40°	2125.0	2129.1	2092.8	1958.7	1774.3	1664.1	1657.3	2048.5	2901.8	3080.7	2972.0
42.5°	2332.6	2337.1	2300.4	2201.2	2031.2	1923.3	1884.4	2240.5	3147.9	3395.7	3267.1
45°	2473.5	2501.6	2496.2	2416.8	2295.0	2183.0	2157.2	2481.6	3428.4	3729.8	3578.9
47.5°	2513.4	2539.2	2580.0	2590.9	2516.6	2406.4	2437.2	2772.1	3712.0	4064.2	3892.4
50°	2415.0	2439.1	2523.9	2636.6	2688.4	2654.3	2709.6	3083.5	4002.5	4397.8	4200.1
52.5°	2221.1	2245.6	2352.5	2531.0	2741.8	2848.8	2982.9	3390.3	4284.0	4713.7	4491.5
55°	1940.5	1966.4	2103.7	2305.8	2639.8	2928.9	3210.8	3696.7	4541.9	4997.8	4754.5
57.5°	1558.9	1578.0	1720.8	2003.6	2383.3	2849.2	3379.0	4031.1	4784.8	5276.9	5015.0
60°	1016.1	1032.8	1198.7	1514.1	1958.3	2582.7	3412.5	4404.1	5107.5	5640.0	5366.2
62.5°	675.7	687.1	785.4	1017.0	1379.0	2071.1	3216.2	4701.9	5580.6	6271.7	5968.5
65°	463.6	475.0	573.3	734.6	890.9	1370.0	2652.1	4662.4	6009.3	6773.4	6414.9
67.5°	330.9	340.3	423.7	576.0	644.9	795.8	1797.8	4158.4	5947.7	6792.4	6438.9
70°	237.0	242.4	311.3	448.6	512.6	478.2	999.8	3180.5	5207.6	6272.2	5948.6
72.5°	165.8	167.7	216.2	341.7	412.9	348.9	475.8	2120.5	3938.7	4923.0	4611.7
75°	112.3	114.7	145.4	250.6	331.3	266.5	251.9	1137.0	2312.2	2725.1	2442.7
77.5°	68.9	69.8	93.8	171.3	247.8	203.1	162.3	481.7	894.6	878.3	748.7
80°	38.9	38.9	59.9	106.5	169.0	131.0	113.8	204.8	283.2	248.8	219.4
82.5°	21.7	22.2	43.5	66.2	111.9	77.5	62.5	94.7	122.4	108.3	94.3
85°	9.0	9.9	26.8	31.3	53.5	38.5	25.4	39.9	45.3	40.4	29.4
87.5°	0.9	1.3	8.2	5.8	6.4	7.7	3.6	7.7	6.4	6.4	4.5
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°	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8	1042.8
2.5°	1049.6	1042.8	1025.6	1005.6	979.4	966.7	949.5	937.7	927.7	928.5	919.5
5°	1070.0	1052.8	1014.2	966.2	906.4	863.8	818.5	787.2	761.8	756.3	744.2
7.5°	1098.1	1070.9	1003.4	916.8	815.7	739.1	670.8	626.8	595.5	585.5	575.5
10°	1134.4	1094.9	989.3	854.7	709.2	611.8	538.4	504.0	482.7	475.4	470.0
12.5°	1176.5	1122.6	970.8	779.0	599.5	505.7	459.1	441.9	435.1	432.8	431.4
15°	1229.5	1157.0	942.6	689.3	506.7	441.0	421.0	418.7	419.6	418.7	418.3
17.5°	1292.5	1194.6	896.9	596.9	444.1	407.8	400.6	402.4	404.7	404.3	403.3
20°	1361.4	1231.7	838.4	514.9	401.5	384.3	380.3	382.0	383.9	382.9	382.5
22.5°	1439.8	1271.6	773.6	450.9	373.0	362.5	358.0	358.4	358.4	356.7	355.8
25°	1533.6	1315.6	705.6	405.6	351.3	343.1	337.6	335.8	333.1	327.7	326.8
27.5°	1645.5	1362.3	640.3	373.9	334.0	326.3	319.9	315.4	308.6	299.6	298.7
30°	1771.5	1418.9	585.1	353.9	320.4	312.7	305.4	298.7	288.6	277.4	276.4
32.5°	1919.7	1479.7	544.7	340.8	308.2	300.0	291.4	283.2	272.3	261.1	261.5
35°	2096.4	1553.1	521.2	331.7	298.7	287.8	278.3	269.2	261.1	251.0	250.2
37.5°	2288.1	1631.0	513.9	327.2	292.3	275.5	264.7	258.3	257.4	251.5	251.0
40°	2498.0	1723.4	519.4	324.5	285.5	263.7	251.9	250.6	252.9	242.4	242.9
42.5°	2720.0	1833.1	528.4	321.3	276.0	251.9	240.7	240.7	238.8	224.4	224.4
45°	2960.2	1959.6	537.5	313.6	264.7	240.2	231.5	228.4	220.7	206.6	206.2
47.5°	3202.2	2088.3	544.3	299.6	251.0	230.2	222.5	215.2	204.0	191.3	190.8
50°	3432.0	2203.9	537.0	278.7	235.6	220.7	212.6	202.5	190.3	181.7	180.4
52.5°	3637.3	2304.0	506.2	254.2	219.4	210.7	203.5	193.1	183.1	174.0	173.1
55°	3815.9	2385.2	451.8	231.1	204.8	202.1	194.9	181.7	168.1	160.4	159.5
57.5°	3987.1	2446.8	383.9	212.1	191.7	192.6	181.7	169.9	157.2	149.1	148.2
60°	4215.1	2529.3	315.0	194.4	177.6	180.4	168.6	160.0	144.1	133.7	132.3
62.5°	4579.5	2657.5	250.2	172.7	161.3	162.3	157.2	146.9	127.8	115.5	114.7
65°	4868.6	2610.4	197.1	149.1	142.8	144.1	144.1	132.7	112.3	98.3	97.0
67.5°	4836.0	2235.1	157.2	126.0	125.0	126.0	129.1	119.6	99.7	88.4	86.5
70°	4454.9	1777.9	126.0	104.7	108.8	106.5	115.5	109.3	89.7	78.4	77.1
72.5°	3635.1	1280.7	96.0	86.5	83.4	87.0	104.2	98.3	74.8	62.1	60.7
75°	2124.1	683.4	71.6	68.5	60.3	72.5	92.5	83.8	57.1	45.8	44.4
77.5°	691.6	238.4	52.6	50.3	44.9	58.4	78.8	70.7	46.6	36.3	34.8
80°	185.3	72.1	35.8	33.1	29.0	43.5	62.5	56.2	33.5	23.6	23.1
82.5°	74.3	30.3	20.8	18.6	15.9	29.9	49.4	45.3	24.9	15.0	15.0
85°	24.0	9.9	7.7	5.8	7.3	18.6	29.4	30.9	17.6	7.7	5.8
87.5°	3.2	1.3	1.3	1.8	1.3	3.2	9.0	8.6	5.0	0.9	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)