

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: P961846

Luminaire Tested: **NAV-SB2B-722-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P961846  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB2B-722-U-T3R-HSS  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(2) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

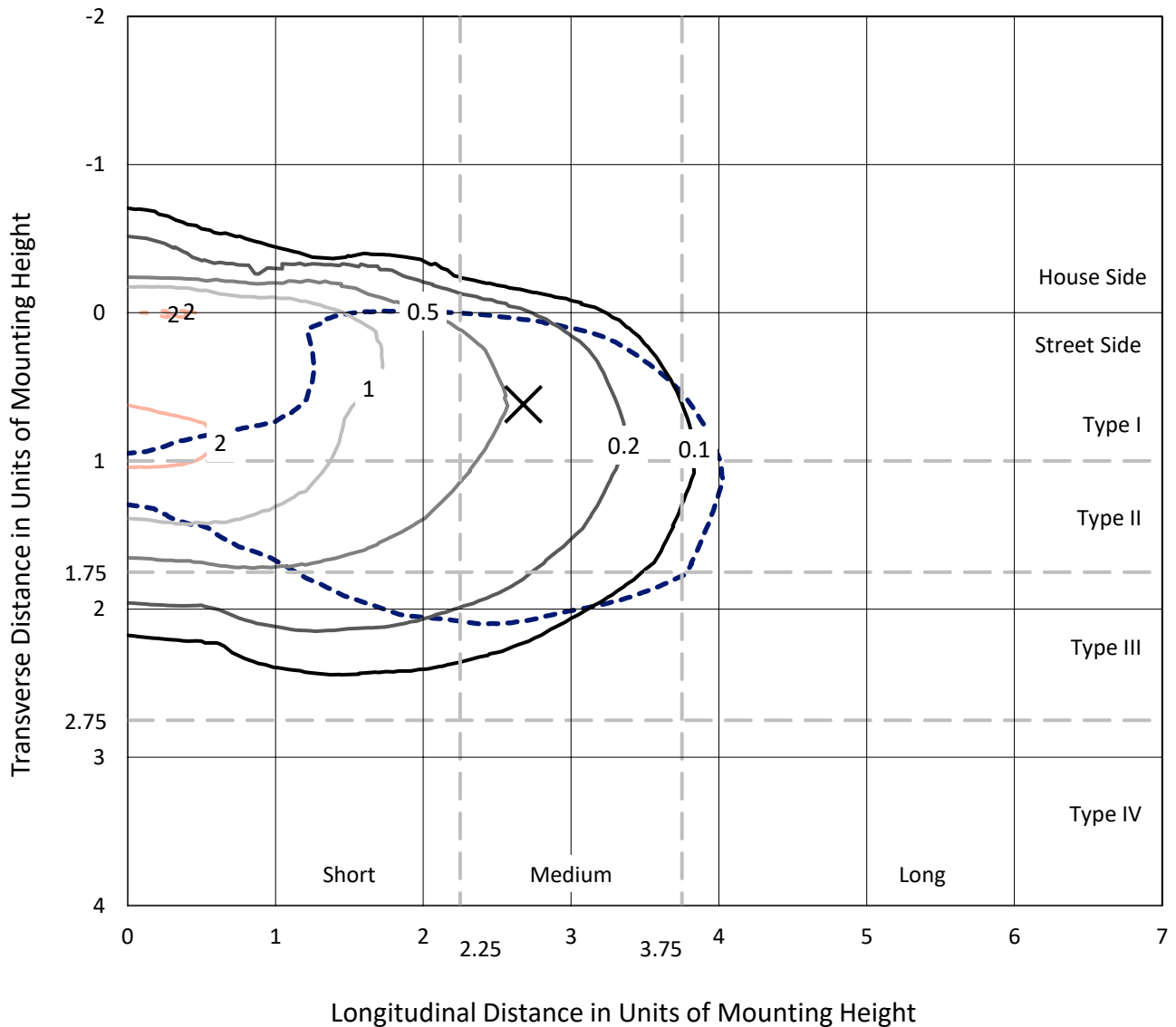
Lumens per Lamp: N/A  
Luminaire Lumens: 7938.6 lumens  
Efficiency: N/A  
Efficacy: 107.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 73.9  
Input Voltage (V): NR  
Input Current (Ain): 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

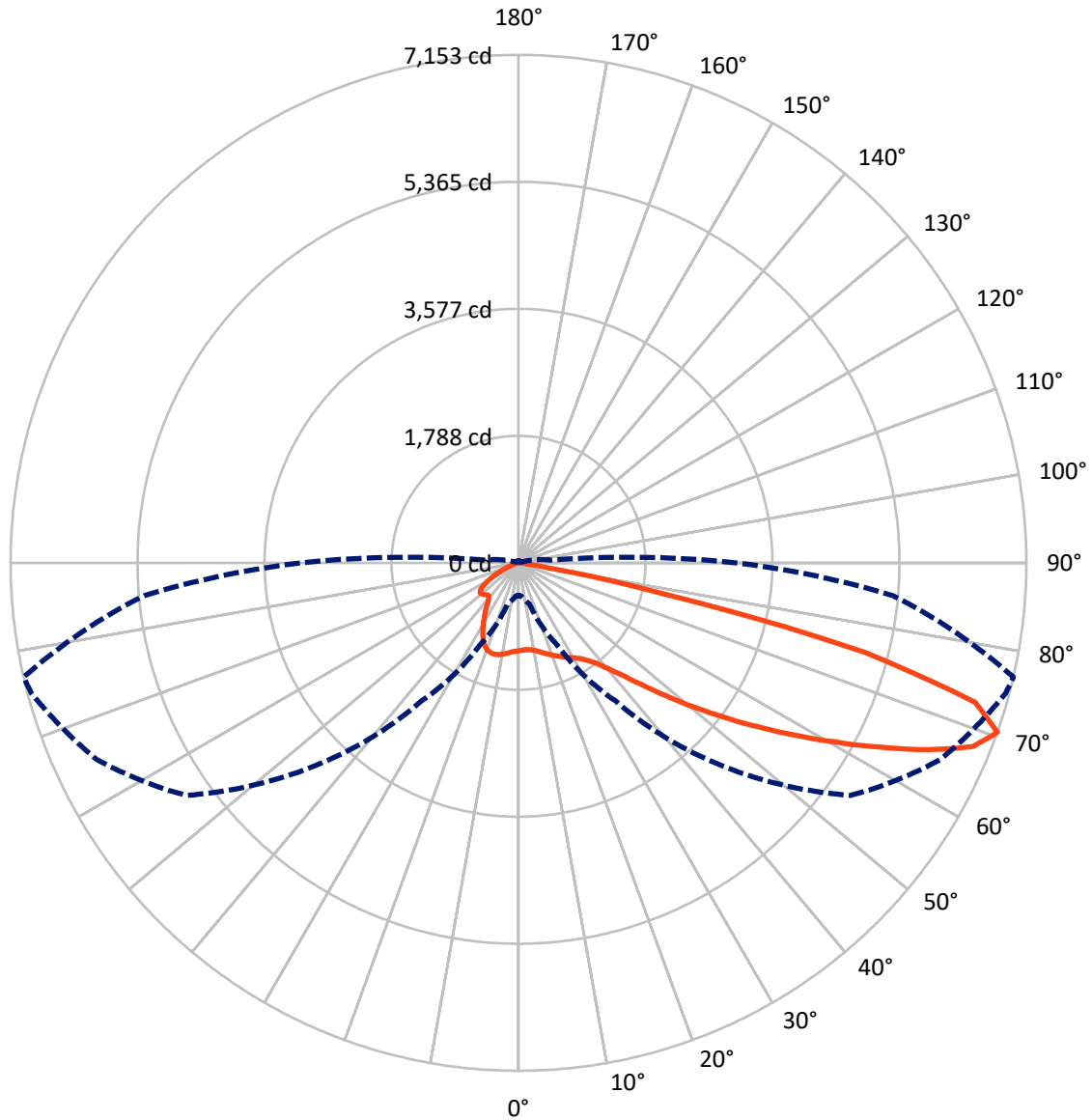
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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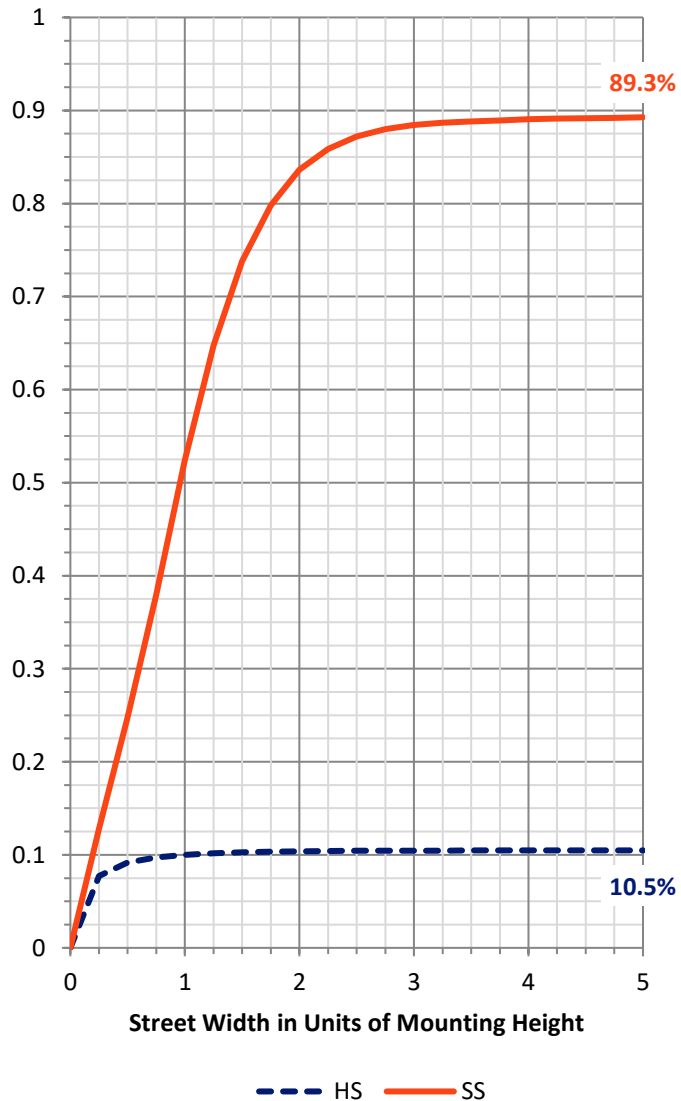
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	836.8	0.0	836.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	7101.8	0.0	7101.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	7938.6	0.0	7938.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.7	1.3
10°-20°	253.3	3.2
20°-30°	391.8	4.9
30°-40°	711.0	9.0
40°-50°	1342.2	16.9
50°-60°	1939.3	24.4
60°-70°	2064.3	26.0
70°-80°	1094.0	13.8
80°-90°	35.9	0.5
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°	7938.6	100.0
0°-180°	7938.6	100.0

**Coefficient of Utilization**

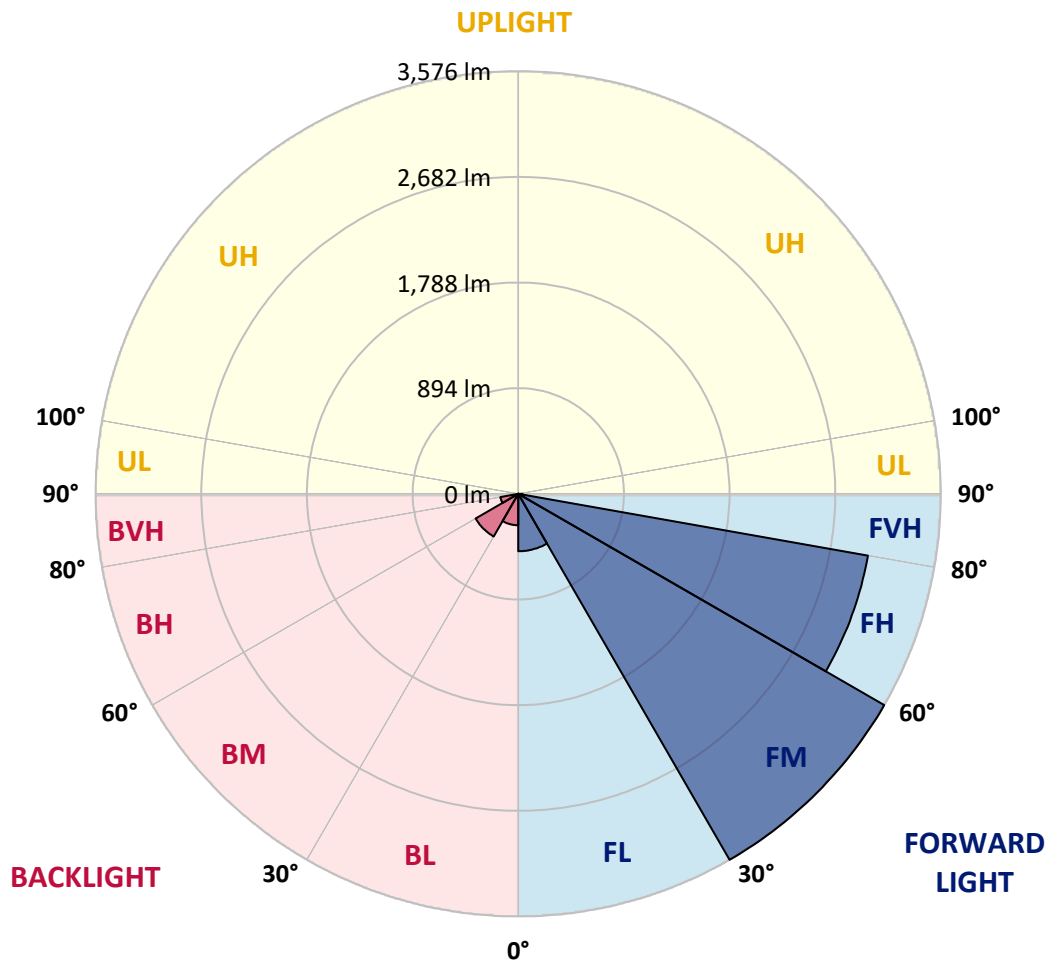


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	486.0	6.1			
FM (30°-60°)	3575.9	45.0			
FH (60°-80°)	3004.9	37.9			G2/5000
FVH (80°-90°)	35.0	0.4			G1/100
BL (0°-30°)	265.9	3.3	B1/500		
BM (30°-60°)	416.6	5.2	B1/1000		
BH (60°-80°)	153.4	1.9	B1/500		G1/500
BVH (80°-90°)	1.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**  
 Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1162.6	1173.1	1171.6	1178.6	1181.1	1191.2	1201.2	1214.7	1229.8	1229.3	1239.3
5°	1097.0	1107.4	1110.0	1119.5	1131.5	1147.1	1167.6	1194.6	1222.7	1227.2	1247.3
7.5°	1019.2	1030.2	1036.8	1055.8	1077.9	1110.0	1143.5	1183.2	1229.8	1236.3	1274.9
10°	941.5	951.5	960.0	987.1	1022.2	1069.8	1124.5	1181.6	1244.2	1253.8	1308.5
12.5°	893.4	902.9	912.5	936.0	979.6	1037.7	1111.9	1188.7	1268.3	1281.9	1354.1
15°	876.3	884.9	892.4	913.4	954.1	1020.2	1109.5	1203.1	1299.0	1317.0	1409.3
17.5°	878.8	883.3	888.4	904.4	944.0	1012.2	1114.0	1228.3	1335.1	1351.1	1464.4
20°	893.4	895.8	896.4	907.4	942.5	1011.2	1123.0	1252.3	1369.1	1390.7	1519.0
22.5°	911.9	913.0	911.9	919.4	952.0	1018.7	1135.0	1281.4	1407.2	1427.3	1574.2
25°	998.7	979.6	955.5	941.0	968.1	1033.2	1153.0	1320.5	1448.8	1468.4	1627.8
27.5°	1267.8	1213.2	1127.0	1030.2	1001.1	1054.3	1178.1	1360.1	1491.0	1508.5	1685.5
30°	1705.0	1633.3	1487.0	1268.8	1107.4	1098.4	1210.7	1399.7	1535.6	1554.6	1747.1
32.5°	2143.2	2125.6	1956.7	1654.9	1346.5	1196.7	1264.8	1453.3	1594.7	1609.8	1830.3
35°	2586.4	2550.7	2412.4	2114.1	1715.0	1396.7	1355.0	1523.6	1672.4	1689.5	1951.7
37.5°	2925.8	2904.2	2818.4	2572.9	2152.2	1705.5	1509.5	1632.3	1785.2	1804.3	2107.1
40°	3225.6	3215.5	3186.4	3024.5	2641.0	2109.6	1749.7	1800.8	1941.7	1964.2	2297.6
42.5°	3461.2	3484.7	3501.3	3456.2	3144.8	2570.8	2072.4	2037.4	2159.7	2182.7	2540.3
45°	3702.3	3710.3	3777.0	3842.2	3645.2	3053.1	2436.4	2314.7	2431.0	2459.5	2831.0
47.5°	3857.2	3889.3	4006.6	4121.4	4065.8	3531.3	2827.5	2642.0	2745.3	2799.0	3156.9
50°	3868.8	3929.4	4090.9	4290.9	4372.1	3986.5	3252.6	3015.0	3124.8	3184.0	3504.8
52.5°	3676.8	3771.0	4021.2	4313.9	4537.6	4372.1	3692.3	3387.9	3528.9	3606.1	3865.8
55°	2819.0	2942.3	3759.0	4188.6	4544.0	4664.4	4120.4	3776.5	3979.0	4066.3	4255.8
57.5°	2456.0	2518.2	2955.4	3971.1	4423.2	4782.1	4507.4	4146.5	4468.8	4577.1	4624.3
60°	2043.4	2125.1	2478.6	3615.1	4259.3	4793.7	4849.4	4623.8	4999.7	5121.6	4962.1
62.5°	1388.7	1477.4	1828.8	3003.5	4035.2	4788.2	5129.6	5115.1	5589.8	5720.6	5248.4
65°	860.3	915.9	1147.6	2452.5	3721.9	4794.2	5422.9	5711.6	6212.4	6345.4	5470.0
67.5°	679.8	705.4	826.2	1883.0	3181.9	4658.8	5715.6	6272.6	6798.5	6903.8	5537.7
70°	456.7	472.2	601.1	1262.4	2367.2	4034.2	5710.2	6554.4	7100.3	7153.0	5291.0
72.5°	240.7	252.7	351.5	584.6	1429.8	2867.6	4813.3	6217.4	6800.1	6720.8	4522.5
75°	120.3	140.3	236.7	296.7	610.6	1599.2	2988.9	4902.0	5352.1	5045.4	2901.7
77.5°	91.2	110.3	195.5	195.5	212.6	538.4	1265.9	2673.6	2466.0	2053.5	851.8
80°	58.1	75.2	171.0	147.9	88.8	136.8	329.8	749.0	523.9	398.5	154.9
82.5°	34.1	49.1	142.4	97.8	49.6	50.6	93.3	159.4	135.8	105.8	47.7
85°	13.5	32.1	97.8	38.6	19.6	12.5	28.1	34.1	28.1	21.0	12.0
87.5°	0.0	7.5	17.0	0.0	1.5	1.0	2.0	2.5	2.5	2.0	4.0
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°	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3	1238.3
2.5°	1243.8	1244.8	1247.8	1248.3	1241.3	1232.3	1228.8	1227.2	1221.3	1220.8	1221.7
5°	1258.8	1263.3	1258.8	1245.8	1214.7	1171.1	1138.1	1110.9	1086.4	1078.8	1074.3
7.5°	1288.9	1293.4	1279.9	1228.8	1150.6	1063.8	985.6	930.5	880.9	862.3	854.7
10°	1332.0	1338.0	1295.4	1192.2	1053.8	914.4	782.1	688.8	616.1	586.5	574.0
12.5°	1386.2	1388.7	1304.0	1136.5	927.9	729.0	541.4	441.7	377.0	352.9	345.4
15°	1445.9	1442.3	1304.9	1060.8	756.6	515.4	353.4	290.3	264.2	256.1	256.1
17.5°	1508.5	1493.9	1284.9	951.5	568.5	352.4	262.2	247.1	242.6	240.7	240.2
20°	1570.2	1537.6	1248.3	808.6	408.1	263.2	238.1	233.6	231.1	230.1	229.1
22.5°	1626.3	1570.7	1185.6	642.7	296.3	232.6	225.1	221.1	216.6	214.5	214.0
25°	1681.0	1589.7	1097.4	487.8	237.1	217.6	211.6	204.1	198.0	195.5	194.5
27.5°	1734.1	1601.8	987.1	361.0	211.6	203.6	192.5	181.9	177.4	176.5	175.5
30°	1790.8	1605.8	861.8	269.2	196.0	186.0	169.9	158.0	155.4	155.9	155.9
32.5°	1860.0	1611.8	735.4	220.6	183.0	164.9	145.9	133.4	131.3	133.4	132.8
35°	1942.7	1623.8	613.7	203.1	171.5	143.4	122.8	112.3	110.3	111.8	111.3
37.5°	2054.9	1643.4	499.8	199.6	162.0	125.4	103.3	94.7	94.7	95.2	94.7
40°	2204.4	1695.5	398.0	197.0	156.9	111.8	87.2	83.7	85.2	86.2	86.2
42.5°	2386.3	1806.3	329.3	194.0	151.4	105.8	79.2	77.7	80.3	81.2	81.2
45°	2590.4	1946.7	305.3	189.0	146.4	109.8	75.7	73.7	76.7	77.2	77.7
47.5°	2801.4	2084.0	302.3	183.5	141.3	115.8	74.7	70.2	73.7	74.2	74.7
50°	3015.0	2173.7	305.3	175.0	133.4	115.8	75.2	66.7	69.7	71.2	71.6
52.5°	3230.1	2214.8	303.3	156.4	119.3	108.8	75.2	63.7	66.7	67.6	67.6
55°	3438.6	2206.8	272.8	128.8	101.3	96.2	73.2	61.2	63.1	63.7	63.7
57.5°	3603.6	2095.1	216.1	100.2	82.2	80.3	66.7	58.1	59.7	59.1	59.1
60°	3689.8	1849.4	154.4	77.2	64.7	63.1	58.6	54.1	55.1	52.7	52.2
62.5°	3690.8	1524.6	103.3	61.2	51.7	50.1	50.1	48.6	47.7	42.6	41.1
65°	3612.1	1164.1	68.7	48.6	41.6	39.1	42.1	41.6	38.1	31.1	30.0
67.5°	3433.6	763.0	52.2	38.1	32.1	30.5	33.6	35.1	32.6	26.0	25.5
70°	3066.6	444.1	43.2	29.6	24.1	22.5	27.1	30.0	27.1	21.0	20.1
72.5°	2547.2	239.6	35.1	22.0	16.5	15.1	21.5	24.6	21.5	15.6	15.1
75°	1652.9	128.3	27.1	14.6	8.5	9.5	16.1	18.0	15.1	10.0	9.0
77.5°	554.9	56.7	17.0	7.0	4.0	4.0	9.5	11.1	7.0	3.5	3.0
80°	123.8	23.6	7.0	3.0	1.5	1.5	2.0	2.0	1.0	0.0	0.0
82.5°	40.6	9.5	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.6	3.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)