

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: P959740

Luminaire Tested: **NAV-SB1B-722-U-T3**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P959740  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB1B-722-U-T3  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4772.4 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1

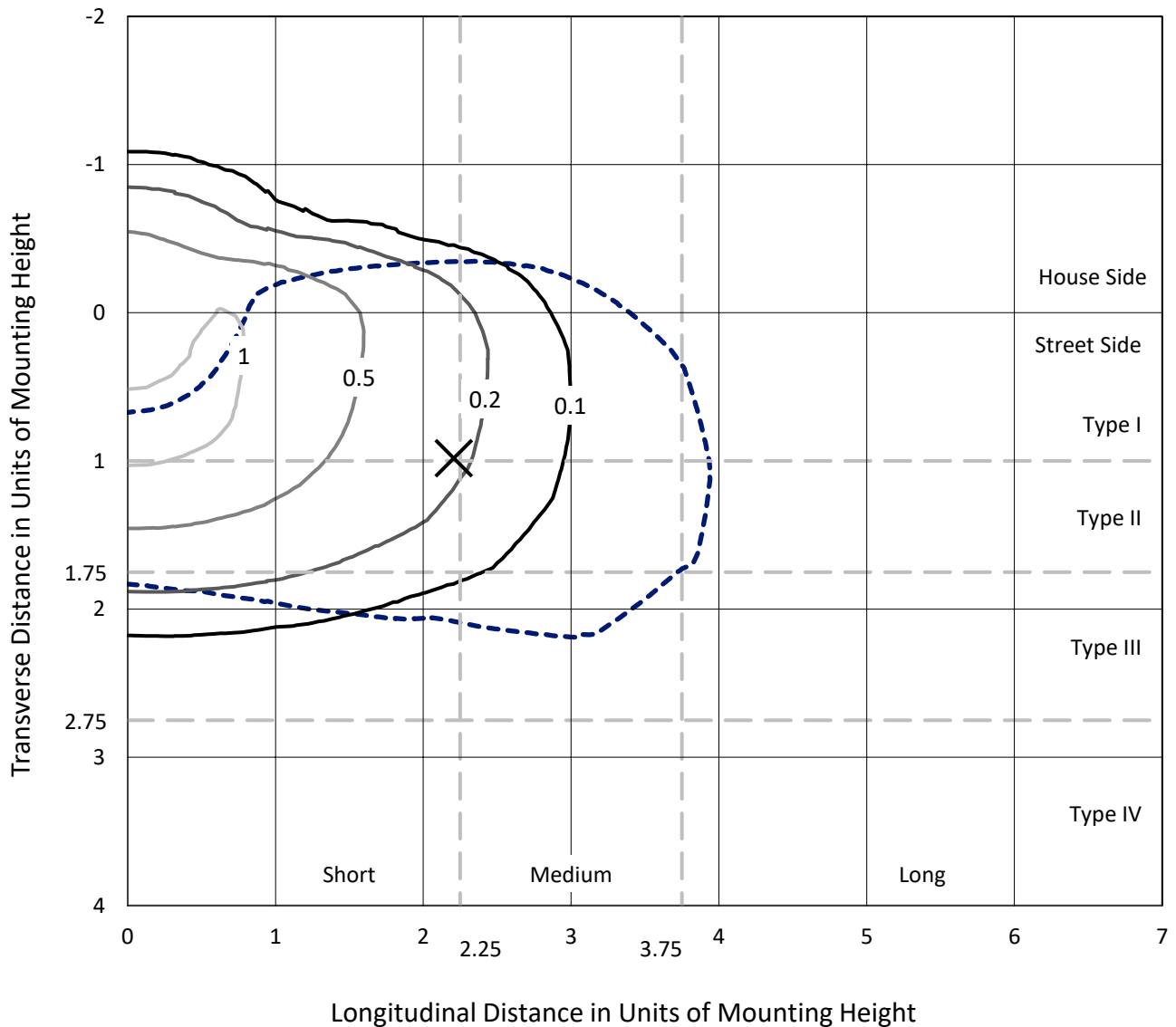
Input Watts (W): 39.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

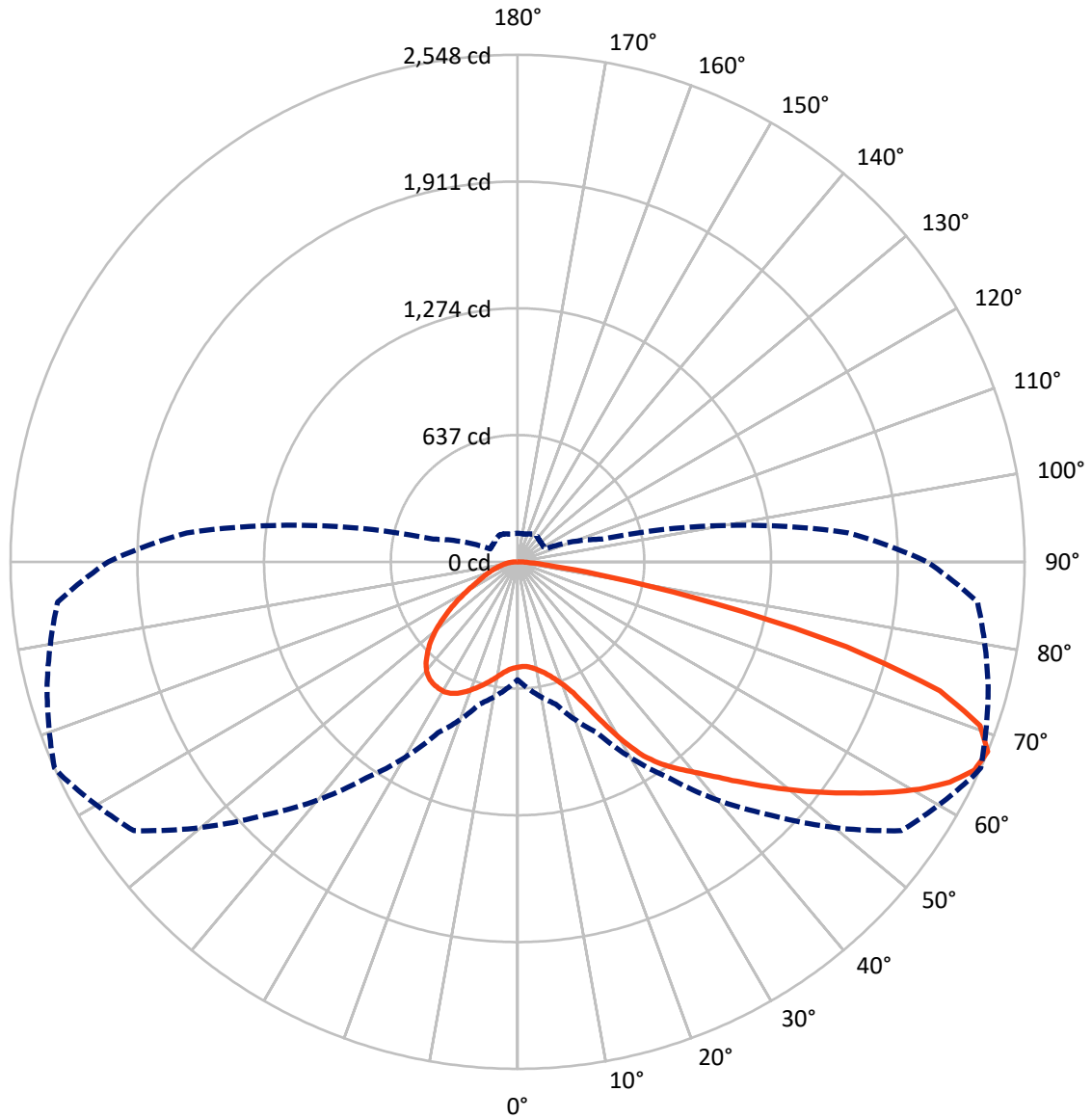
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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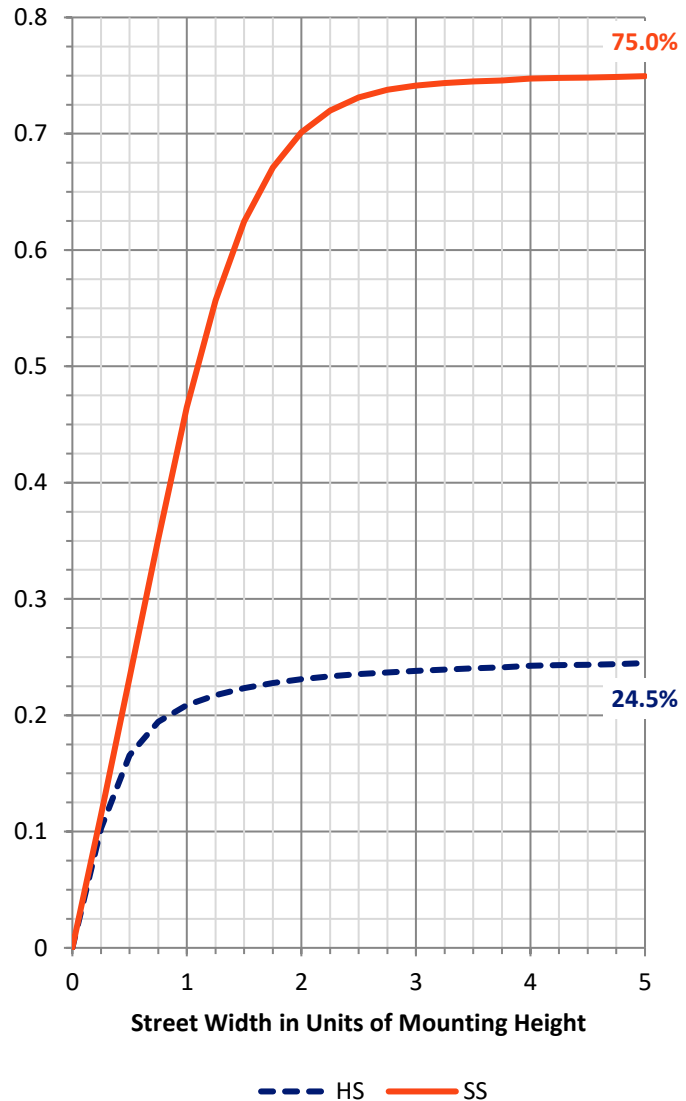
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1186.6	0.0	1186.6
	% Fixture	24.9	0.0	24.9
<b>Street Side</b>	Lumens	3585.8	0.0	3585.8
	% Fixture	75.1	0.0	75.1
<b>Total</b>	Lumens	4772.4	0.0	4772.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.5	1.1
10°-20°	173.4	3.6
20°-30°	334.2	7.0
30°-40°	586.0	12.3
40°-50°	871.1	18.3
50°-60°	1104.3	23.1
60°-70°	1080.5	22.6
70°-80°	515.4	10.8
80°-90°	55.1	1.2
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°	4772.4	100.0
0°-180°	4772.4	100.0

**Coefficient of Utilization**



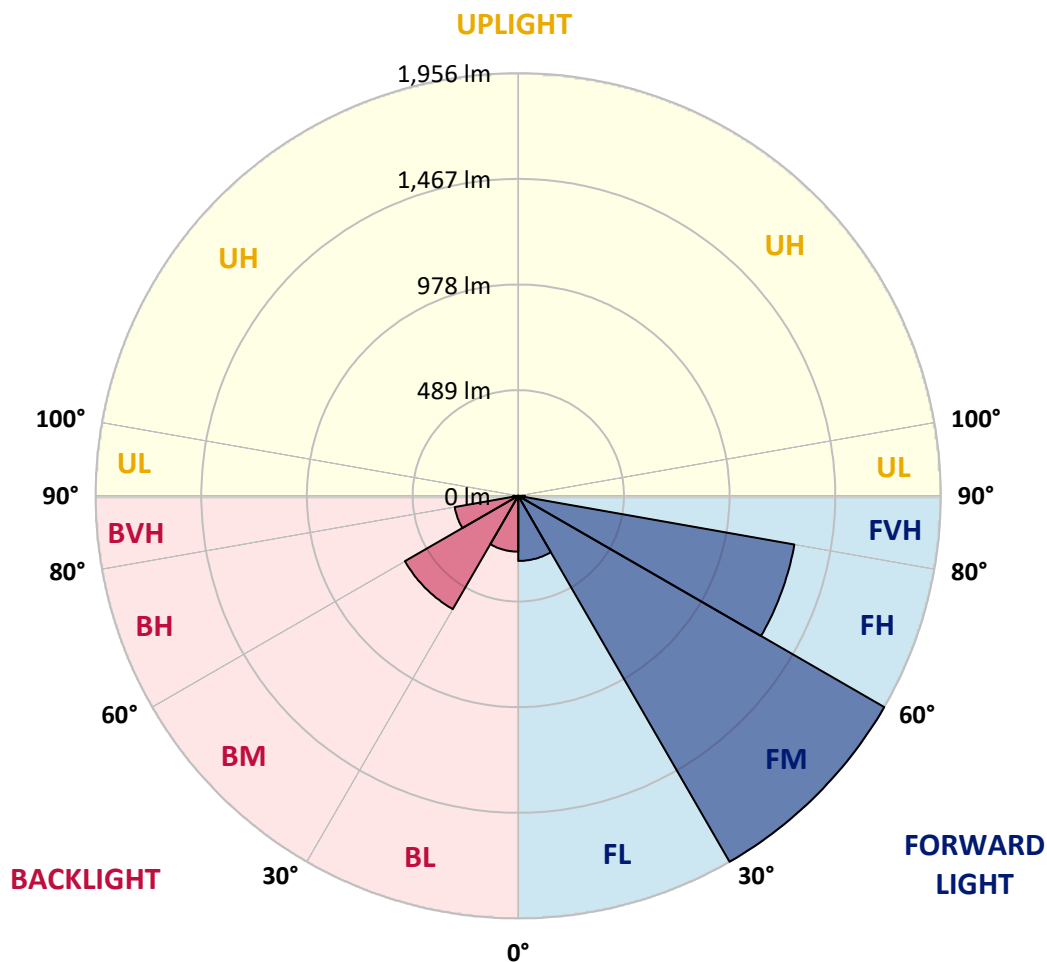
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	301.6	6.3			
FM (30°-60°)	1955.7	41.0			
FH (60°-80°)	1297.3	27.2			G1/1800
FVH (80°-90°)	31.2	0.7			G1/100
BL (0°-30°)	258.5	5.4	B1/500		
BM (30°-60°)	605.7	12.7	B1/1000		
BH (60°-80°)	298.6	6.3	B1/500		G1/500
BVH (80°-90°)	23.9	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

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

Type III Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3
2.5°	523.8	526.8	526.0	524.8	524.6	525.1	525.8	526.5	526.3	527.6	529.6
5°	522.3	525.3	525.1	525.1	526.0	528.1	529.3	530.5	529.3	530.8	533.6
7.5°	523.3	525.5	526.5	527.6	530.0	533.8	536.9	539.6	538.1	539.9	543.4
10°	536.1	537.8	538.8	538.8	540.6	544.9	547.9	552.9	551.7	554.4	558.9
12.5°	559.4	561.2	561.2	560.2	561.4	564.2	565.2	570.7	568.5	573.0	577.5
15°	588.0	591.5	588.8	587.0	587.5	590.3	590.0	594.3	592.0	595.7	599.8
17.5°	619.6	624.1	619.6	619.3	618.4	621.4	621.6	625.4	621.4	624.1	626.9
20°	656.9	663.2	659.5	660.7	658.5	659.7	660.9	666.5	660.2	662.3	661.4
22.5°	709.6	717.1	713.1	717.9	716.4	715.3	715.1	724.9	715.1	715.9	708.6
25°	786.4	795.4	788.3	794.9	794.9	798.2	801.9	814.5	798.2	793.3	774.6
27.5°	899.6	908.7	894.9	898.9	897.7	905.7	901.7	932.7	915.2	907.4	869.6
30°	1036.1	1052.2	1026.0	1025.0	1023.8	1036.6	1042.3	1062.9	1045.1	1037.3	991.7
32.5°	1183.5	1200.3	1169.2	1160.2	1155.5	1163.2	1158.5	1175.0	1162.7	1150.7	1094.3
35°	1339.5	1356.1	1326.5	1308.9	1289.9	1273.6	1256.4	1260.8	1249.2	1230.9	1172.5
37.5°	1487.0	1517.3	1485.9	1467.1	1432.0	1400.1	1352.5	1332.7	1321.9	1305.1	1246.2
40°	1637.1	1654.5	1630.6	1614.6	1576.4	1526.5	1450.3	1408.5	1393.9	1377.6	1327.7
42.5°	1747.7	1764.2	1751.4	1740.4	1710.6	1652.7	1554.1	1501.7	1480.6	1462.4	1419.9
45°	1835.5	1847.8	1839.7	1843.8	1831.0	1774.8	1661.7	1601.8	1579.9	1557.6	1524.3
47.5°	1870.8	1883.8	1896.7	1920.4	1942.3	1900.9	1777.2	1710.1	1687.0	1664.2	1631.4
50°	1866.8	1880.1	1917.2	1967.8	2035.5	2021.7	1899.1	1825.4	1804.1	1778.1	1747.7
52.5°	1834.7	1849.7	1897.4	1981.6	2089.5	2112.3	2023.2	1944.5	1924.4	1893.4	1863.0
55°	1750.5	1759.5	1831.0	1950.3	2102.3	2175.5	2144.9	2071.4	2051.3	2008.0	1974.9
57.5°	1594.3	1607.3	1711.3	1865.8	2070.2	2218.3	2251.7	2204.8	2185.5	2123.1	2088.4
60°	1390.4	1411.2	1530.3	1723.8	1988.4	2218.1	2348.7	2336.0	2319.9	2236.3	2200.3
62.5°	1159.7	1183.8	1298.4	1523.3	1845.5	2155.2	2409.4	2445.8	2437.4	2341.0	2294.8
65°	890.6	907.2	1021.3	1263.7	1623.1	2020.0	2416.4	2520.8	2522.2	2420.4	2344.2
67.5°	593.0	640.6	739.7	948.3	1325.2	1799.1	2354.7	2533.0	2547.5	2447.8	2319.4
70°	289.4	352.1	449.1	616.3	948.3	1460.3	2193.5	2432.2	2464.6	2368.1	2171.5
72.5°	120.1	140.4	193.3	304.1	544.4	985.4	1869.6	2159.0	2218.8	2098.3	1825.6
75°	81.0	87.7	110.6	156.0	247.9	486.0	1348.3	1609.8	1706.3	1584.8	1295.4
77.5°	62.4	66.7	80.5	109.1	147.4	183.8	721.6	970.2	1020.1	944.3	674.0
80°	49.1	52.4	60.2	79.4	104.6	98.3	246.0	439.5	468.4	392.9	216.7
82.5°	42.6	43.9	43.2	53.9	69.5	57.4	80.8	162.3	179.1	129.9	70.7
85°	30.9	34.3	35.9	33.3	36.9	29.1	33.1	57.4	63.1	56.4	39.9
87.5°	12.5	18.6	22.9	21.5	13.5	8.3	10.2	16.8	19.3	21.0	13.0
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°	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3	529.3
2.5°	529.8	531.6	532.8	534.3	535.4	536.9	539.9	541.6	541.8	543.1	542.8
5°	534.5	537.1	539.9	543.9	548.4	552.2	557.9	561.9	563.4	564.7	564.5
7.5°	544.9	548.4	553.4	560.4	566.9	571.9	578.9	583.7	588.5	590.3	590.5
10°	560.2	565.2	572.5	582.0	589.0	595.5	602.8	606.8	611.6	613.6	614.6
12.5°	579.2	584.5	594.0	607.3	613.9	618.4	620.8	619.8	620.8	622.6	623.1
15°	601.1	606.8	617.6	631.9	636.4	632.4	626.9	621.9	621.0	621.6	623.3
17.5°	626.9	631.1	643.7	655.7	652.4	635.9	623.8	615.8	611.8	610.6	612.3
20°	663.0	663.0	673.2	680.8	659.0	630.9	612.0	599.0	590.7	587.2	586.5
22.5°	706.8	702.8	709.4	704.1	657.7	616.8	590.7	568.2	555.7	550.6	549.9
25°	762.5	757.8	756.0	723.4	648.7	594.5	552.2	524.8	513.7	511.1	511.5
27.5°	846.5	834.5	811.7	733.9	632.1	559.4	507.0	481.6	475.4	475.7	476.4
30°	958.4	934.3	878.3	735.6	605.1	509.7	460.8	442.8	439.8	441.1	445.4
32.5°	1061.9	1039.0	946.6	727.6	563.4	461.1	419.5	407.4	402.9	404.5	406.4
35°	1143.2	1136.8	1009.7	716.4	512.3	415.5	382.4	372.1	363.4	361.3	362.8
37.5°	1219.9	1217.4	1057.2	700.6	461.7	383.1	352.5	339.0	326.3	319.2	319.5
40°	1304.1	1301.6	1088.2	676.3	416.8	355.1	325.7	307.9	292.1	279.3	280.5
42.5°	1398.9	1384.2	1103.0	641.4	378.6	331.3	303.9	279.8	259.0	247.2	247.9
45°	1502.4	1469.1	1102.8	597.1	346.6	309.4	280.5	246.5	227.1	216.2	215.7
47.5°	1612.3	1550.3	1089.3	547.9	315.4	285.4	244.5	218.4	205.6	198.8	197.3
50°	1725.6	1626.4	1066.2	491.5	283.6	258.0	221.9	204.1	194.3	188.1	185.8
52.5°	1832.2	1695.2	1038.3	427.5	251.2	231.4	211.9	198.1	187.8	180.8	177.7
55°	1931.2	1754.7	999.0	362.0	224.9	213.6	207.2	195.6	183.8	175.5	172.3
57.5°	2019.2	1793.3	931.0	300.6	206.1	201.3	202.1	191.4	177.7	170.8	166.3
60°	2092.4	1821.6	830.5	243.7	190.9	189.3	194.3	183.3	167.5	159.5	156.0
62.5°	2136.3	1821.1	707.1	199.6	177.7	178.2	184.1	173.2	157.2	149.6	147.4
65°	2132.6	1776.5	571.7	170.8	165.2	165.7	173.2	162.3	148.7	144.2	143.9
67.5°	2057.1	1667.7	438.6	151.9	151.5	153.8	162.5	154.7	143.4	142.9	143.7
70°	1852.8	1441.8	315.9	136.9	137.1	140.4	151.9	150.0	140.6	141.7	141.4
72.5°	1485.6	1099.3	212.2	121.2	121.4	126.6	142.0	146.2	137.9	151.2	153.2
75°	989.4	685.5	136.4	104.3	104.6	111.3	133.1	138.9	130.4	150.7	151.9
77.5°	475.4	308.1	98.8	87.7	87.7	94.0	115.1	124.3	111.1	117.1	107.3
80°	164.2	115.8	77.7	70.7	69.2	73.5	97.1	107.8	95.7	88.3	82.7
82.5°	64.7	60.2	62.4	54.9	49.9	52.7	75.4	89.0	70.4	63.7	63.4
85°	37.1	39.2	44.2	36.4	28.8	32.4	55.5	64.0	53.2	46.8	47.9
87.5°	10.0	13.8	20.3	18.8	13.0	13.8	26.3	35.4	30.5	23.6	24.3
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)