

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: P959735

Luminaire Tested: **NAV-SB1B-722-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959735
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-722-U-T2U
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4833.9 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

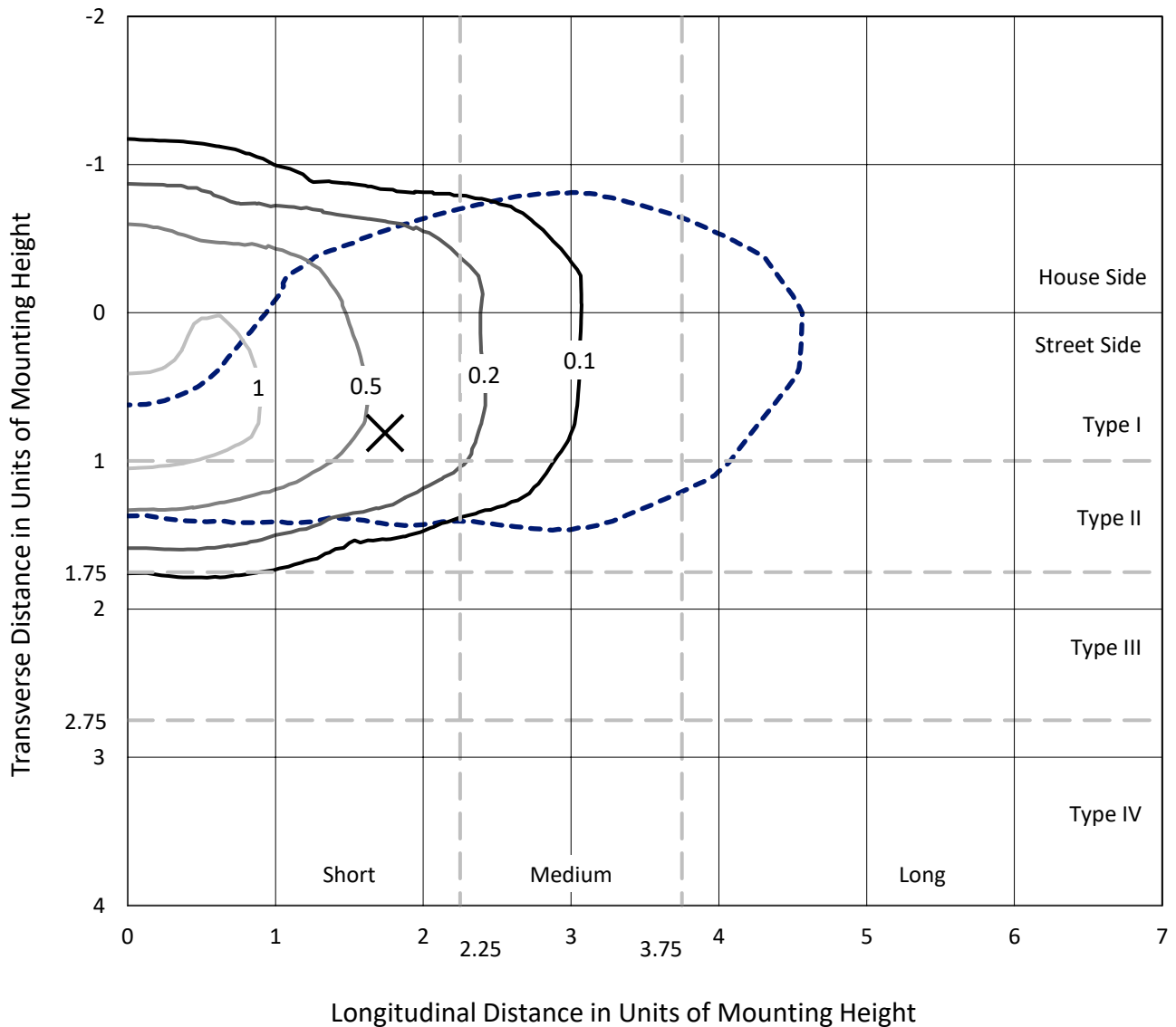
Input Watts (W): 39.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

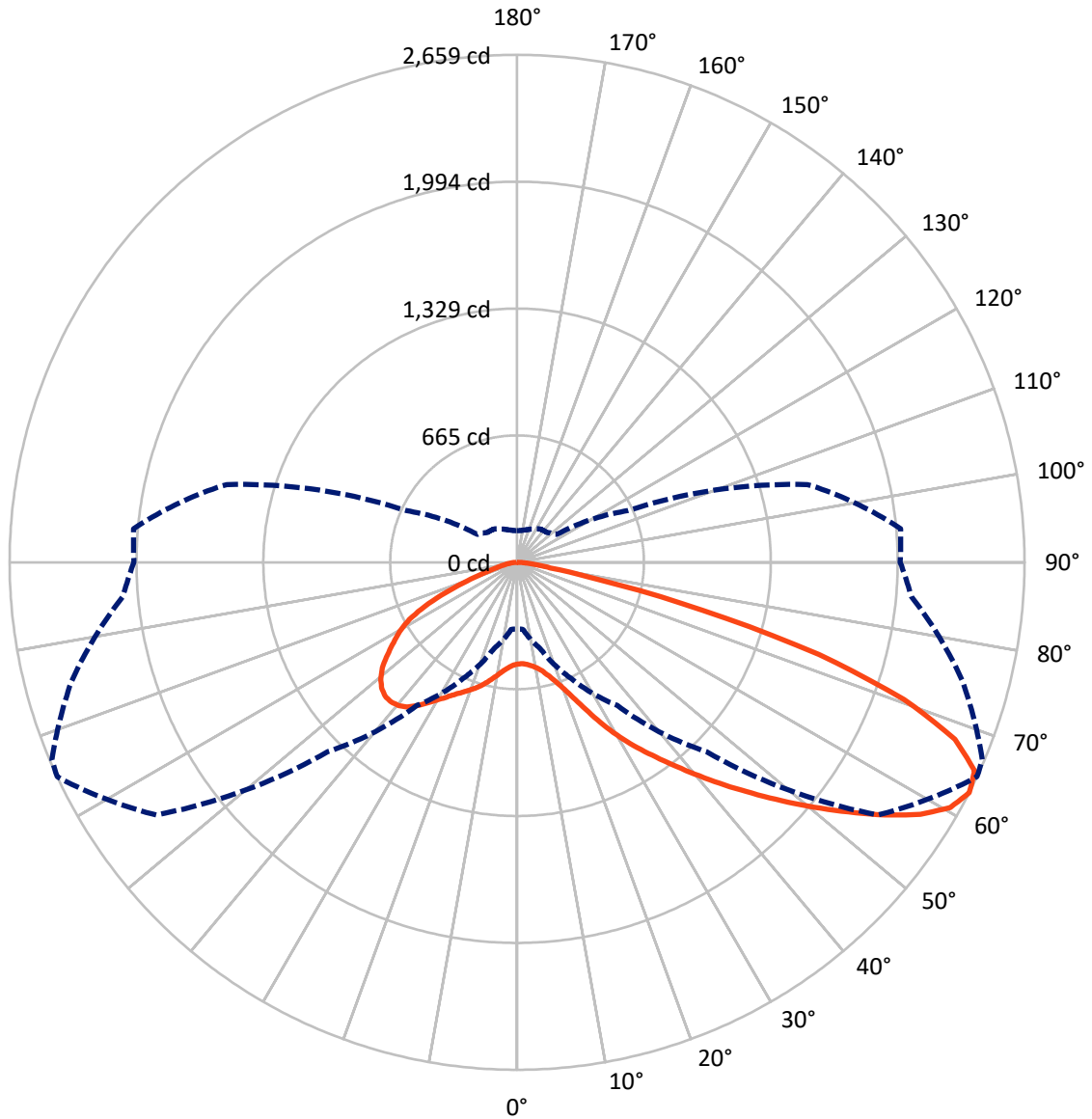
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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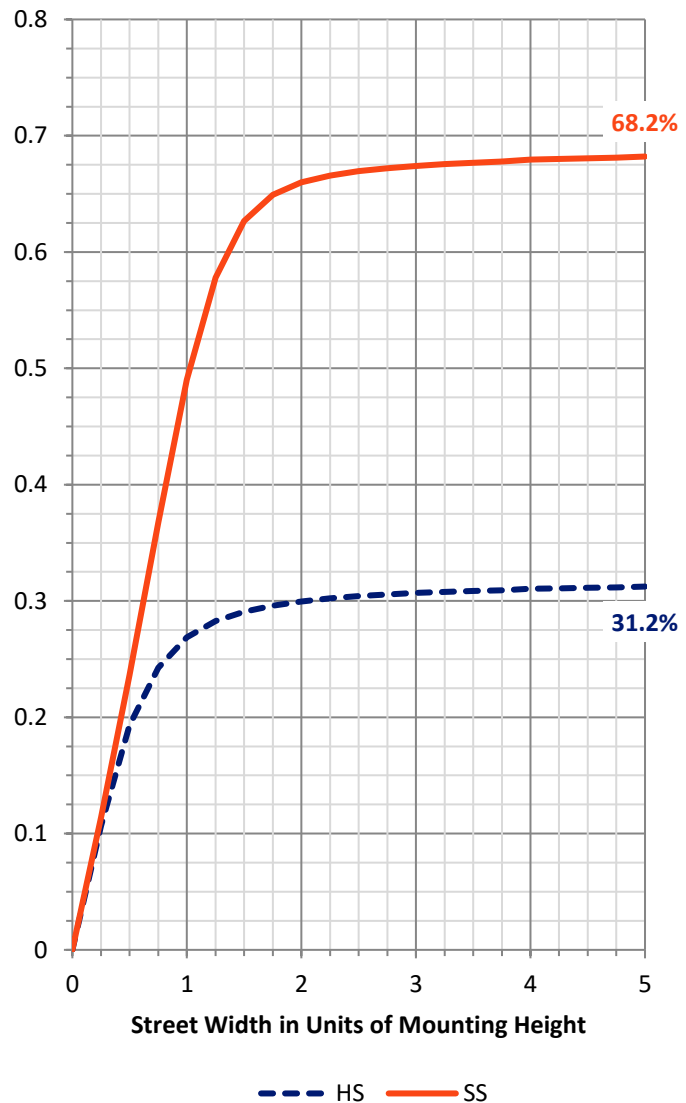
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1525.4	0.0	1525.4
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	3308.5	0.0	3308.5
	% Fixture	68.4	0.0	68.4
Total	Lumens	4833.9	0.0	4833.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.1
10°-20°	180.1	3.7
20°-30°	365.2	7.6
30°-40°	631.9	13.1
40°-50°	956.2	19.8
50°-60°	1121.1	23.2
60°-70°	939.9	19.4
70°-80°	518.9	10.7
80°-90°	67.4	1.4
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°	4833.9	100.0
0°-180°	4833.9	100.0

Coefficient of Utilization

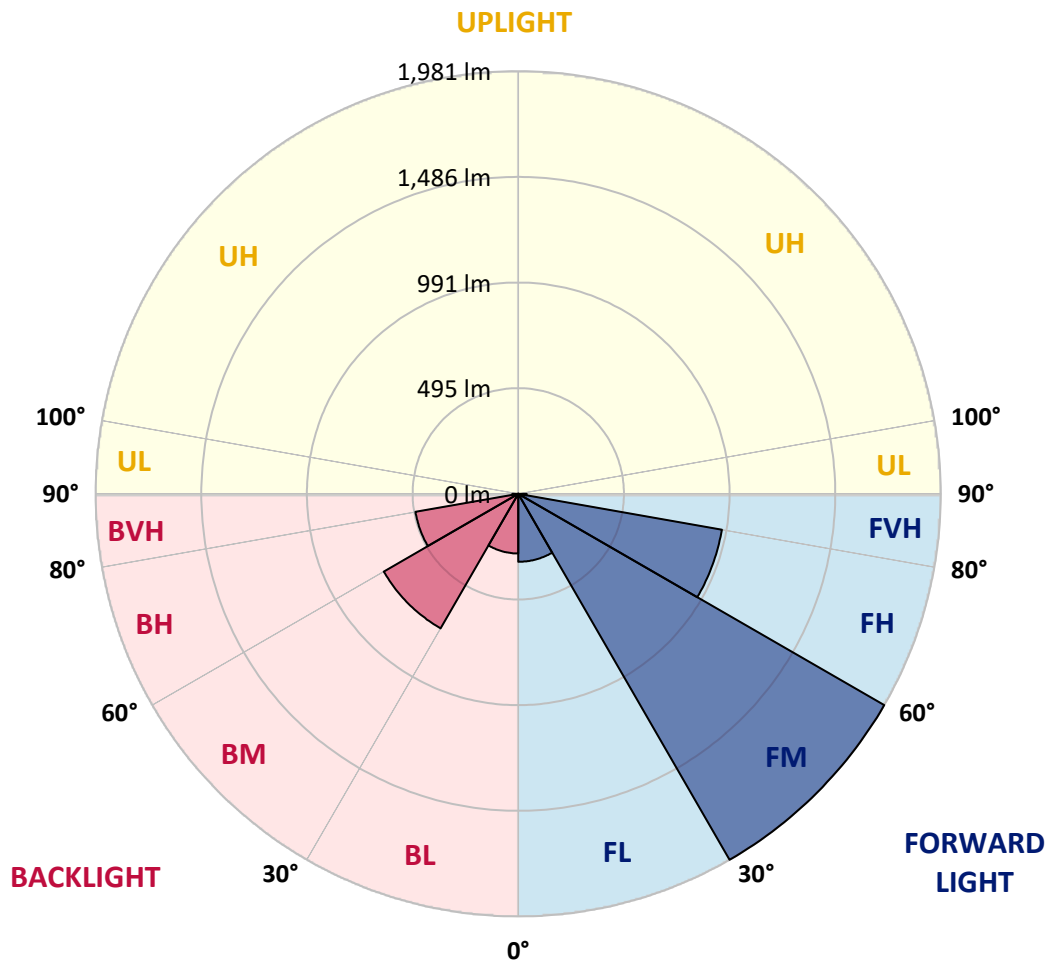


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	318.6	6.6			
FM (30°-60°)	1981.1	41.0			
FH (60°-80°)	969.5	20.1			G1/1800
FVH (80°-90°)	39.3	0.8			G1/100
BL (0°-30°)	279.7	5.8	B1/500		
BM (30°-60°)	728.2	15.1	B1/1000		
BH (60°-80°)	489.3	10.1	B1/500		G1/500
BVH (80°-90°)	28.1	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-G1
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7
2.5°	529.2	527.7	528.9	528.9	529.4	529.2	530.9	531.5	532.2	533.7	533.7
5°	523.9	523.7	525.9	527.9	529.9	531.7	533.9	537.2	537.7	539.5	541.7
7.5°	522.1	520.6	524.2	526.6	531.5	535.7	541.7	547.2	549.5	550.2	554.5
10°	535.7	533.2	536.5	537.9	541.9	546.2	553.2	562.0	564.6	567.5	572.3
12.5°	558.7	556.0	560.8	563.0	566.8	570.5	575.3	583.8	585.1	590.6	595.1
15°	590.4	587.1	590.1	592.9	599.1	602.6	607.4	615.7	615.7	619.9	623.2
17.5°	633.2	628.9	631.2	632.2	636.2	641.5	649.5	656.8	660.6	659.1	654.6
20°	697.2	691.9	691.9	687.0	685.4	689.6	700.2	710.2	714.2	706.4	695.5
22.5°	793.2	785.8	781.5	764.4	757.7	758.1	768.6	780.9	784.2	770.4	745.6
25°	915.4	903.6	897.8	872.8	857.4	844.2	852.4	868.3	872.8	855.7	815.6
27.5°	1037.5	1038.2	1032.8	1002.7	977.3	953.0	948.7	965.2	970.1	950.8	901.1
30°	1208.8	1190.9	1180.5	1144.3	1108.2	1074.1	1056.6	1063.3	1064.6	1041.5	983.8
32.5°	1356.5	1352.0	1329.4	1297.9	1251.4	1198.0	1168.7	1157.8	1155.9	1123.0	1054.5
35°	1524.8	1522.3	1498.4	1460.8	1410.7	1336.5	1283.5	1252.7	1250.2	1204.1	1124.5
37.5°	1695.9	1695.9	1672.5	1631.4	1579.4	1486.7	1406.2	1357.3	1349.2	1289.0	1195.8
40°	1832.3	1824.0	1828.3	1811.0	1751.5	1652.9	1542.3	1471.4	1460.6	1388.4	1271.5
42.5°	1909.8	1907.0	1932.5	1951.9	1927.5	1848.8	1692.3	1595.0	1579.9	1497.7	1358.7
45°	1927.1	1924.0	1969.7	2040.4	2074.5	2042.2	1855.4	1725.2	1706.8	1612.0	1452.3
47.5°	1887.2	1881.2	1948.1	2059.7	2169.1	2226.0	2031.9	1866.3	1839.8	1723.4	1548.4
50°	1767.3	1761.6	1862.8	2011.0	2200.9	2350.9	2223.5	2016.1	1975.5	1842.7	1645.4
52.5°	1506.7	1509.5	1668.3	1871.9	2159.1	2428.6	2388.6	2173.8	2124.9	1964.9	1736.5
55°	1173.7	1179.7	1374.8	1599.0	1991.5	2416.8	2501.1	2336.4	2287.7	2079.8	1830.5
57.5°	840.4	866.9	1049.8	1271.7	1669.7	2230.0	2525.7	2490.9	2443.7	2205.2	1922.6
60°	544.7	549.5	737.6	961.2	1271.5	1898.0	2475.8	2607.9	2571.1	2333.1	1999.6
62.5°	349.1	352.4	467.0	672.4	915.1	1404.1	2307.8	2658.8	2647.6	2417.6	2073.5
65°	256.6	254.1	313.8	444.4	616.4	866.0	1981.5	2634.2	2656.6	2470.6	2134.7
67.5°	214.1	210.6	240.1	307.7	454.2	491.8	1466.2	2474.6	2556.2	2464.5	2179.6
70°	195.2	192.1	209.9	228.5	354.3	329.3	739.0	2151.3	2277.1	2396.0	2172.3
72.5°	165.2	160.0	184.3	202.8	275.6	252.6	305.4	1652.4	1805.9	2176.6	2070.0
75°	128.1	124.6	145.4	178.6	207.2	197.1	193.1	1003.4	1171.0	1683.3	1811.0
77.5°	101.6	96.8	115.8	139.2	186.3	148.7	140.7	432.1	598.1	1074.6	1355.0
80°	76.5	72.3	88.0	110.1	143.2	112.1	91.0	176.3	225.5	544.5	681.4
82.5°	54.4	50.6	61.4	80.8	96.4	100.6	56.0	98.8	111.1	209.9	152.2
85°	34.8	32.6	41.1	50.6	61.2	64.7	34.1	51.7	56.7	86.5	63.4
87.5°	19.1	15.6	22.0	23.6	28.3	25.8	16.3	18.9	20.3	31.4	26.9
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°	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7	532.7
2.5°	534.6	535.5	537.9	538.7	540.5	542.7	544.2	545.7	545.7	547.2	547.2
5°	541.9	543.7	549.0	551.8	556.3	560.8	563.5	566.8	568.8	569.8	570.3
7.5°	556.0	558.7	566.3	571.0	578.8	585.1	589.4	593.9	594.9	597.7	596.7
10°	575.0	578.3	586.8	595.8	605.2	612.9	616.9	620.2	621.5	622.0	620.7
12.5°	596.9	601.7	612.6	623.7	633.4	640.2	641.2	640.5	637.0	634.0	634.0
15°	623.7	628.0	640.2	652.3	661.8	663.1	656.8	652.8	648.5	647.8	647.8
17.5°	655.8	658.0	669.3	681.1	681.9	677.6	668.4	664.6	660.6	657.8	658.0
20°	693.2	692.4	700.5	705.5	700.2	687.2	673.1	666.9	662.9	659.6	659.8
22.5°	737.8	732.1	731.0	729.8	715.8	688.4	669.3	661.3	655.1	650.6	652.0
25°	802.8	780.7	765.4	756.9	725.3	681.6	657.3	639.5	627.7	619.9	623.0
27.5°	884.1	847.0	808.3	787.5	725.3	667.9	628.2	599.4	580.0	572.1	576.0
30°	961.6	922.6	865.7	824.3	723.5	645.2	581.3	541.2	518.6	510.7	515.4
32.5°	1027.8	985.3	926.7	864.7	719.2	608.6	523.2	478.8	456.9	447.4	452.1
35°	1089.2	1044.1	987.9	909.1	708.0	555.0	459.2	425.4	401.0	385.7	390.7
37.5°	1152.1	1098.5	1045.8	949.3	687.7	492.3	410.0	381.2	352.6	332.0	337.5
40°	1220.6	1156.4	1107.7	973.0	654.3	432.7	371.9	345.6	315.3	293.5	297.7
42.5°	1300.6	1225.9	1176.7	985.3	608.6	390.2	347.1	321.2	292.6	274.9	278.4
45°	1384.1	1302.4	1239.6	985.1	557.7	370.4	339.1	313.4	281.9	263.3	266.3
47.5°	1471.6	1382.3	1294.1	969.0	513.6	373.2	334.6	296.6	261.8	243.7	246.3
50°	1559.4	1469.8	1346.7	939.0	494.8	367.2	317.8	273.1	232.0	215.7	216.7
52.5°	1646.5	1562.9	1392.2	896.1	475.7	344.8	296.2	242.5	219.7	208.4	208.4
55°	1734.0	1655.0	1441.6	833.6	428.1	318.8	260.0	230.9	209.9	199.7	198.6
57.5°	1821.7	1761.3	1488.4	771.2	368.2	286.7	240.3	216.9	200.1	191.4	189.8
60°	1913.1	1882.9	1536.8	713.7	308.9	245.5	225.7	205.6	188.6	178.9	178.0
62.5°	2007.1	2016.9	1574.7	639.8	254.5	220.5	212.7	192.1	175.6	166.3	166.0
65°	2101.9	2146.0	1599.5	537.2	206.4	196.6	198.6	177.3	160.5	152.5	152.2
67.5°	2173.3	2239.0	1592.5	406.5	169.3	174.0	181.1	161.7	146.0	139.7	139.9
70°	2181.4	2228.0	1523.3	278.4	141.7	152.0	161.5	146.5	130.2	125.7	125.9
72.5°	2074.5	2077.6	1330.4	181.8	119.9	133.5	140.9	130.9	115.1	110.6	110.4
75°	1794.4	1718.1	976.8	119.9	100.3	114.6	121.7	114.6	99.3	100.3	96.8
77.5°	1359.6	1216.8	593.1	85.3	83.7	96.4	105.9	100.9	87.7	98.6	86.8
80°	700.5	658.4	264.6	63.7	66.2	77.0	87.0	80.5	69.5	66.2	60.5
82.5°	160.5	186.5	104.3	45.6	47.9	55.5	66.4	60.5	49.9	42.1	41.6
85°	56.2	61.4	46.1	28.6	28.1	34.6	45.1	40.4	33.8	27.1	28.6
87.5°	17.8	23.4	17.3	11.6	12.0	15.6	20.8	19.1	15.8	10.2	10.8
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)