

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: P962373

Luminaire Tested: **NAV-SB2C-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P962373
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-SB2C-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 2200K, 615mA 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: 10557.5 lumens
Efficiency: N/A
Efficacy: 104.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

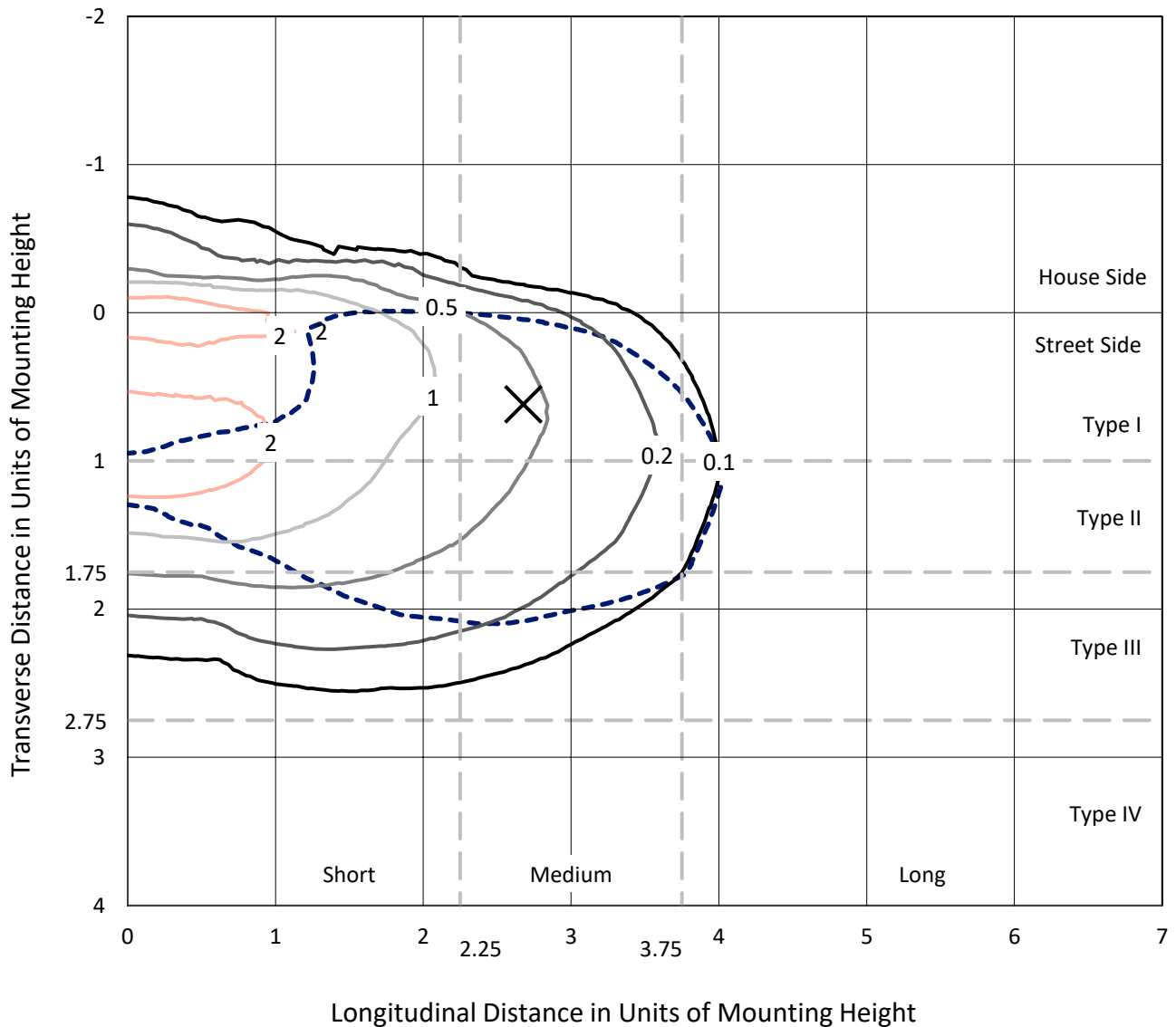
Input Watts (W): 100.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P962373
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Iso-Footcandle Lines of Horizontal Illumination

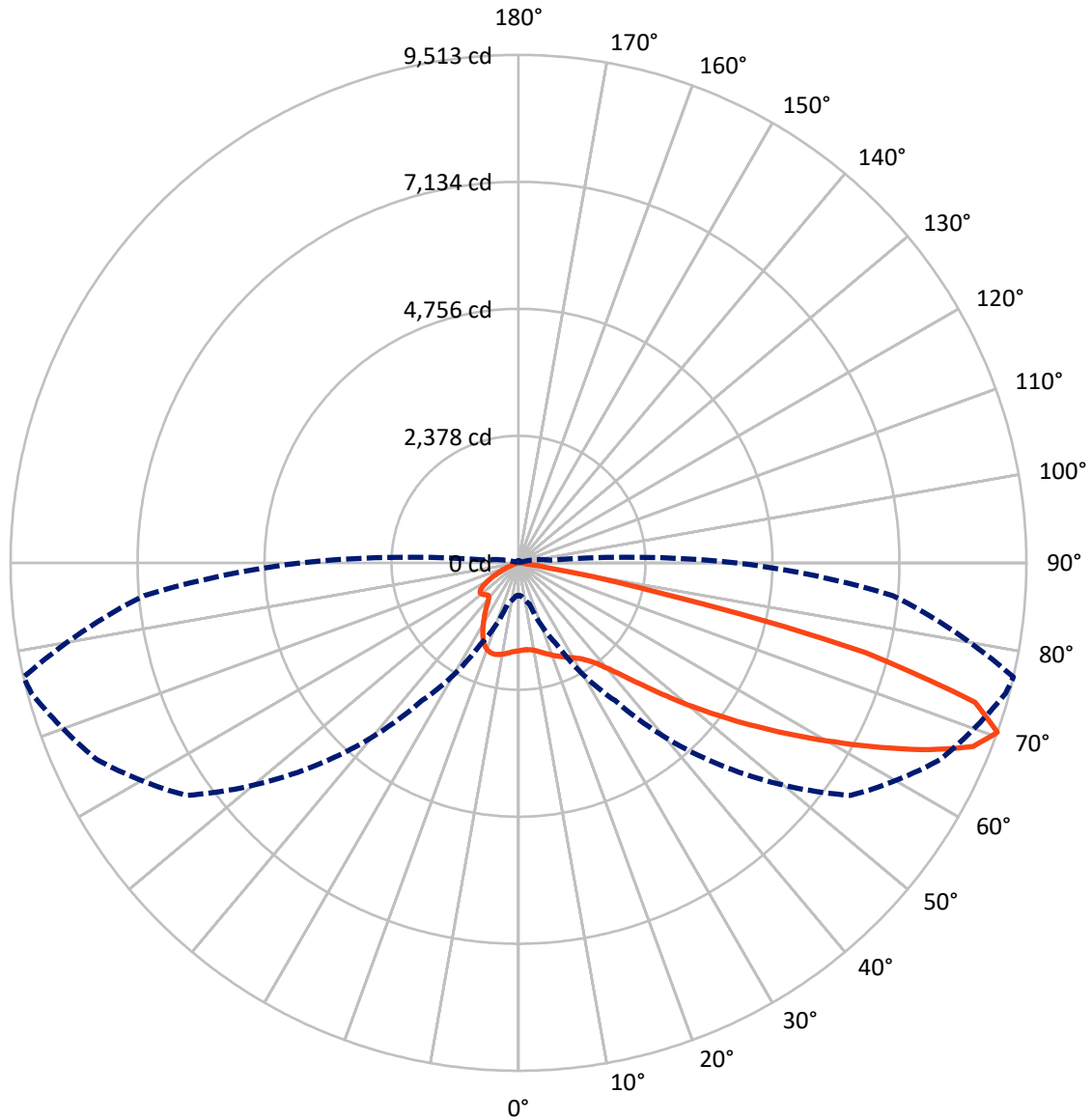
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Medium - N/A

REPORT NUMBER: P962373
CATALOG NUMBER: NAV-SB2C-722-U-T3R-HSS

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: NAV-SB2C-722-U-T3R-HSS

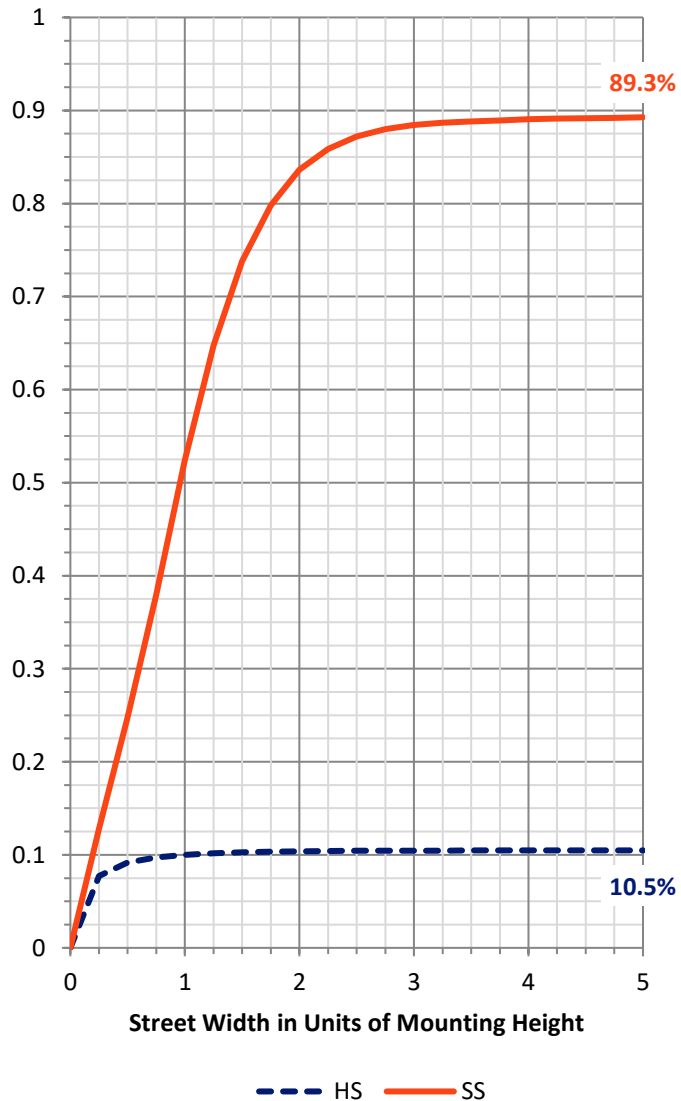
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1112.9	0.0	1112.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	9444.6	0.0	9444.6
	% Fixture	89.5	0.0	89.5
Total	Lumens	10557.5	0.0	10557.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.9	1.3
10°-20°	336.9	3.2
20°-30°	521.1	4.9
30°-40°	945.6	9.0
40°-50°	1784.9	16.9
50°-60°	2579.1	24.4
60°-70°	2745.3	26.0
70°-80°	1454.8	13.8
80°-90°	47.8	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°	10557.5	100.0
0°-180°	10557.5	100.0

Coefficient of Utilization

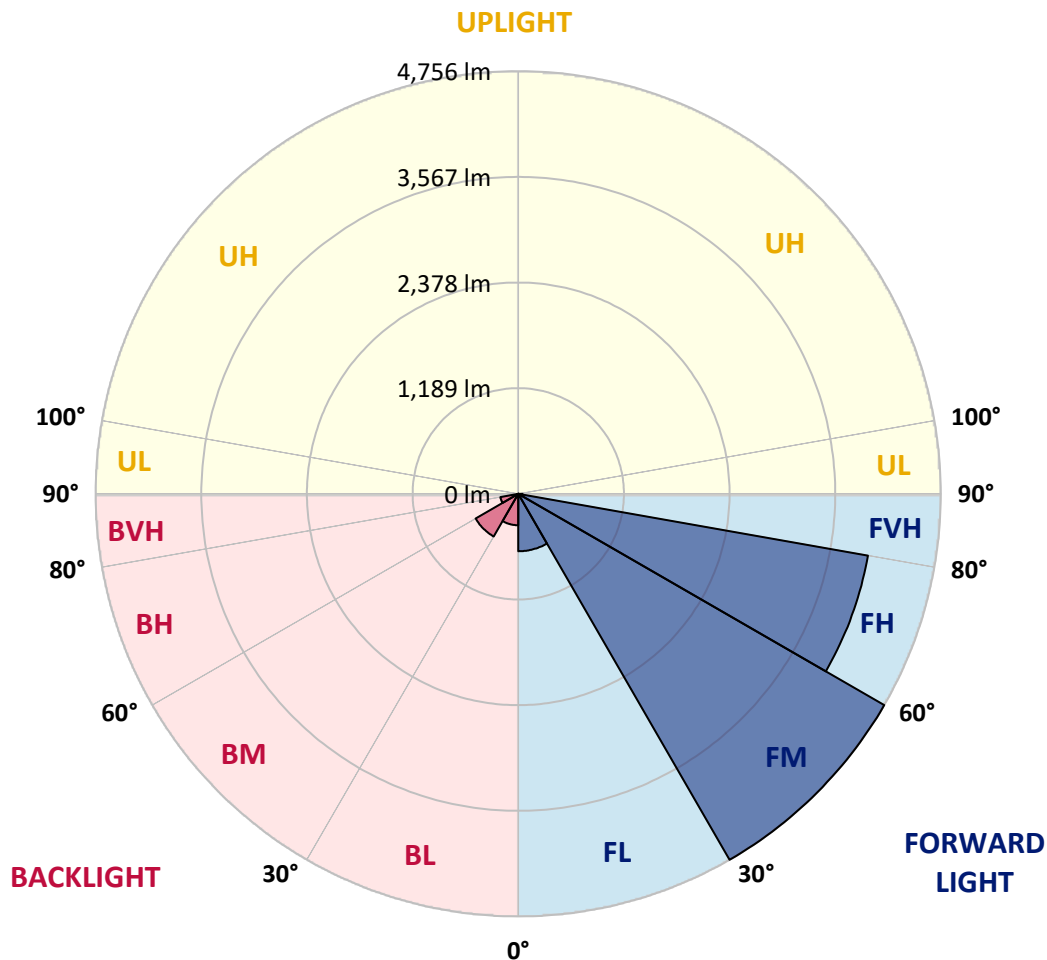


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 CATALOG NUMBER: NAV-SB2C-722-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	646.4	6.1			
FM (30°-60°)	4755.6	45.0			
FH (60°-80°)	3996.2	37.9			G2/5000
FVH (80°-90°)	46.5	0.4			G1/100
BL (0°-30°)	353.6	3.3	B1/500		
BM (30°-60°)	554.0	5.2	B1/1000		
BH (60°-80°)	204.0	1.9	B1/500		G1/500
BVH (80°-90°)	1.3	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°	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8
2.5°	1546.1	1560.2	1558.1	1567.4	1570.8	1584.1	1597.5	1615.4	1635.5	1634.8	1648.1
5°	1458.8	1472.7	1476.1	1488.8	1504.8	1525.4	1552.8	1588.7	1626.1	1632.1	1658.8
7.5°	1355.5	1370.1	1378.7	1404.0	1433.5	1476.1	1520.8	1573.5	1635.5	1644.1	1695.5
10°	1252.0	1265.5	1276.7	1312.7	1359.5	1422.8	1495.5	1571.4	1654.8	1667.5	1740.1
12.5°	1188.1	1200.8	1213.4	1244.8	1302.8	1380.1	1478.8	1580.8	1686.7	1704.8	1800.8
15°	1165.4	1176.7	1186.7	1214.7	1268.7	1356.8	1475.4	1600.1	1727.4	1751.4	1874.1
17.5°	1168.7	1174.8	1181.4	1202.7	1255.4	1346.1	1481.4	1633.4	1775.5	1796.8	1947.5
20°	1188.1	1191.5	1192.1	1206.7	1253.4	1344.8	1493.4	1665.4	1820.8	1849.5	2020.2
22.5°	1212.8	1214.1	1212.8	1222.7	1266.1	1354.7	1509.4	1704.2	1871.4	1898.1	2093.5
25°	1328.1	1302.8	1270.8	1251.4	1287.4	1374.1	1533.4	1756.1	1926.8	1952.8	2164.8
27.5°	1686.1	1613.5	1498.8	1370.1	1331.5	1402.1	1566.8	1808.8	1982.8	2006.1	2241.5
30°	2267.5	2172.2	1977.4	1687.5	1472.7	1460.7	1610.1	1861.5	2042.1	2067.4	2323.5
32.5°	2850.2	2826.8	2602.2	2200.8	1790.8	1591.4	1682.1	1932.8	2120.8	2140.8	2434.2
35°	3439.6	3392.2	3208.2	2811.6	2280.8	1857.5	1802.2	2026.1	2224.1	2246.8	2595.5
37.5°	3890.9	3862.3	3748.2	3421.6	2862.2	2268.1	2007.5	2170.8	2374.2	2399.5	2802.1
40°	4289.6	4276.3	4237.7	4022.3	3512.3	2805.5	2326.9	2394.8	2582.2	2612.2	3055.5
42.5°	4603.0	4634.3	4656.3	4596.3	4182.3	3418.9	2756.2	2709.5	2872.2	2902.9	3378.2
45°	4923.7	4934.3	5023.0	5109.7	4847.6	4060.2	3240.2	3078.2	3232.8	3270.9	3764.9
47.5°	5129.7	5172.4	5328.4	5481.1	5407.1	4696.3	3760.2	3513.6	3650.9	3722.3	4198.3
50°	5145.0	5225.7	5440.4	5706.4	5814.4	5301.7	4325.6	4009.6	4155.7	4234.3	4661.0
52.5°	4889.7	5015.0	5347.7	5737.0	6034.4	5814.4	4910.4	4505.6	4693.0	4795.7	5141.0
55°	3748.9	3912.9	4999.0	5570.4	6043.1	6203.1	5479.8	5022.3	5291.7	5407.7	5659.7
57.5°	3266.3	3348.9	3930.3	5281.0	5882.4	6359.8	5994.4	5514.4	5943.1	6087.1	6149.8
60°	2717.5	2826.2	3296.2	4807.7	5664.4	6375.1	6449.1	6149.1	6649.1	6811.1	6599.2
62.5°	1846.7	1964.8	2432.1	3994.3	5366.4	6367.8	6821.8	6802.5	7433.8	7607.9	6979.8
65°	1144.1	1218.1	1526.1	3261.5	4949.6	6375.8	7211.8	7595.9	8261.9	8438.6	7274.5
67.5°	904.0	938.1	1098.7	2504.2	4231.6	6195.7	7601.2	8341.9	9041.3	9181.3	7364.5
70°	607.4	628.0	799.4	1678.7	3148.2	5365.1	7593.8	8716.6	9442.6	9512.6	7036.5
72.5°	320.0	336.0	467.4	777.4	1901.5	3813.6	6401.1	8268.6	9043.3	8937.9	6014.4
75°	160.0	186.7	314.7	394.7	812.0	2126.8	3975.0	6519.1	7117.8	6709.8	3858.9
77.5°	121.4	146.7	260.0	260.0	282.7	716.1	1683.5	3555.6	3279.6	2730.8	1132.7
80°	77.4	100.0	227.3	196.7	118.0	182.0	438.7	996.1	696.7	530.0	206.0
82.5°	45.3	65.3	189.3	130.0	66.0	67.3	124.0	212.0	180.7	140.6	63.3
85°	18.0	42.6	130.0	51.4	26.0	16.7	37.3	45.3	37.3	28.0	16.0
87.5°	0.0	10.0	22.7	0.0	2.0	1.3	2.7	3.4	3.4	2.7	5.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P962373
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8	1646.8
2.5°	1654.1	1655.5	1659.5	1660.1	1650.8	1638.8	1634.2	1632.1	1624.1	1623.4	1624.7
5°	1674.1	1680.1	1674.1	1656.8	1615.4	1557.5	1513.4	1477.4	1444.7	1434.8	1428.7
7.5°	1714.1	1720.2	1702.1	1634.2	1530.1	1414.8	1310.8	1237.4	1171.4	1146.8	1136.7
10°	1771.4	1779.5	1722.8	1585.5	1401.4	1216.1	1040.1	916.0	819.4	780.0	763.4
12.5°	1843.5	1846.7	1734.1	1511.5	1234.1	969.4	720.1	587.3	501.3	469.3	459.4
15°	1922.8	1918.1	1735.4	1410.8	1006.0	685.4	470.1	386.0	351.4	340.7	340.7
17.5°	2006.1	1986.8	1708.8	1265.5	756.0	468.7	348.7	328.7	322.7	320.0	319.4
20°	2088.1	2044.8	1660.1	1075.4	542.7	350.0	316.7	310.7	307.4	306.1	304.7
22.5°	2162.9	2088.8	1576.8	854.7	394.0	309.3	299.4	294.0	288.0	285.4	284.6
25°	2235.5	2114.2	1459.4	648.7	315.4	289.4	281.4	271.3	263.3	260.0	258.7
27.5°	2306.1	2130.2	1312.7	480.0	281.4	270.7	256.0	242.0	236.1	234.7	233.4
30°	2381.5	2135.5	1146.1	358.0	260.7	247.3	226.0	210.0	206.6	207.4	207.4
32.5°	2473.5	2143.5	978.1	293.4	243.3	219.4	194.0	177.3	174.7	177.3	176.7
35°	2583.5	2159.5	816.1	270.0	228.1	190.6	163.4	149.3	146.7	148.7	148.0
37.5°	2732.9	2185.5	664.7	265.4	215.4	166.7	137.4	126.0	126.0	126.7	126.0
40°	2931.5	2254.8	529.4	262.0	208.7	148.7	116.0	111.3	113.4	114.7	114.7
42.5°	3173.5	2402.2	438.0	258.0	201.3	140.6	105.4	103.3	106.7	108.0	108.0
45°	3444.9	2588.8	406.0	251.3	194.6	146.0	100.7	98.0	102.0	102.7	103.3
47.5°	3725.6	2771.5	402.0	244.1	188.0	154.1	99.3	93.4	98.0	98.7	99.3
50°	4009.6	2890.9	406.0	232.7	177.3	154.1	100.0	88.7	92.7	94.7	95.3
52.5°	4295.7	2945.5	403.3	208.0	158.7	144.6	100.0	84.7	88.7	90.0	90.0
55°	4572.9	2934.9	362.6	171.4	134.7	128.0	97.4	81.4	84.0	84.7	84.7
57.5°	4792.3	2786.2	287.3	133.4	109.4	106.7	88.7	77.4	79.3	78.7	78.7
60°	4907.0	2459.5	205.3	102.7	86.0	84.0	78.0	72.0	73.3	70.0	69.3
62.5°	4908.3	2027.4	137.4	81.4	68.7	66.6	66.6	64.7	63.3	56.7	54.6
65°	4803.7	1548.1	91.3	64.7	55.4	52.0	56.0	55.4	50.6	41.3	40.0
67.5°	4566.3	1014.7	69.3	50.6	42.6	40.7	44.7	46.6	43.4	34.6	34.0
70°	4078.3	590.7	57.3	39.4	32.0	30.0	36.0	40.0	36.0	28.0	26.6
72.5°	3387.5	318.7	46.6	29.3	22.0	20.0	28.7	32.7	28.7	20.7	20.0
75°	2198.1	170.7	36.0	19.4	11.4	12.7	21.3	24.0	20.0	13.3	12.0
77.5°	738.0	75.3	22.7	9.3	5.3	5.3	12.7	14.7	9.3	4.7	4.0
80°	164.7	31.4	9.3	4.0	2.0	2.0	2.7	2.7	1.3	0.0	0.0
82.5°	54.0	12.7	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.7	4.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.0	0.7	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)