

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: P965540

Luminaire Tested: **NAV-SB4A-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965540
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-722-U-T4W-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11726 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

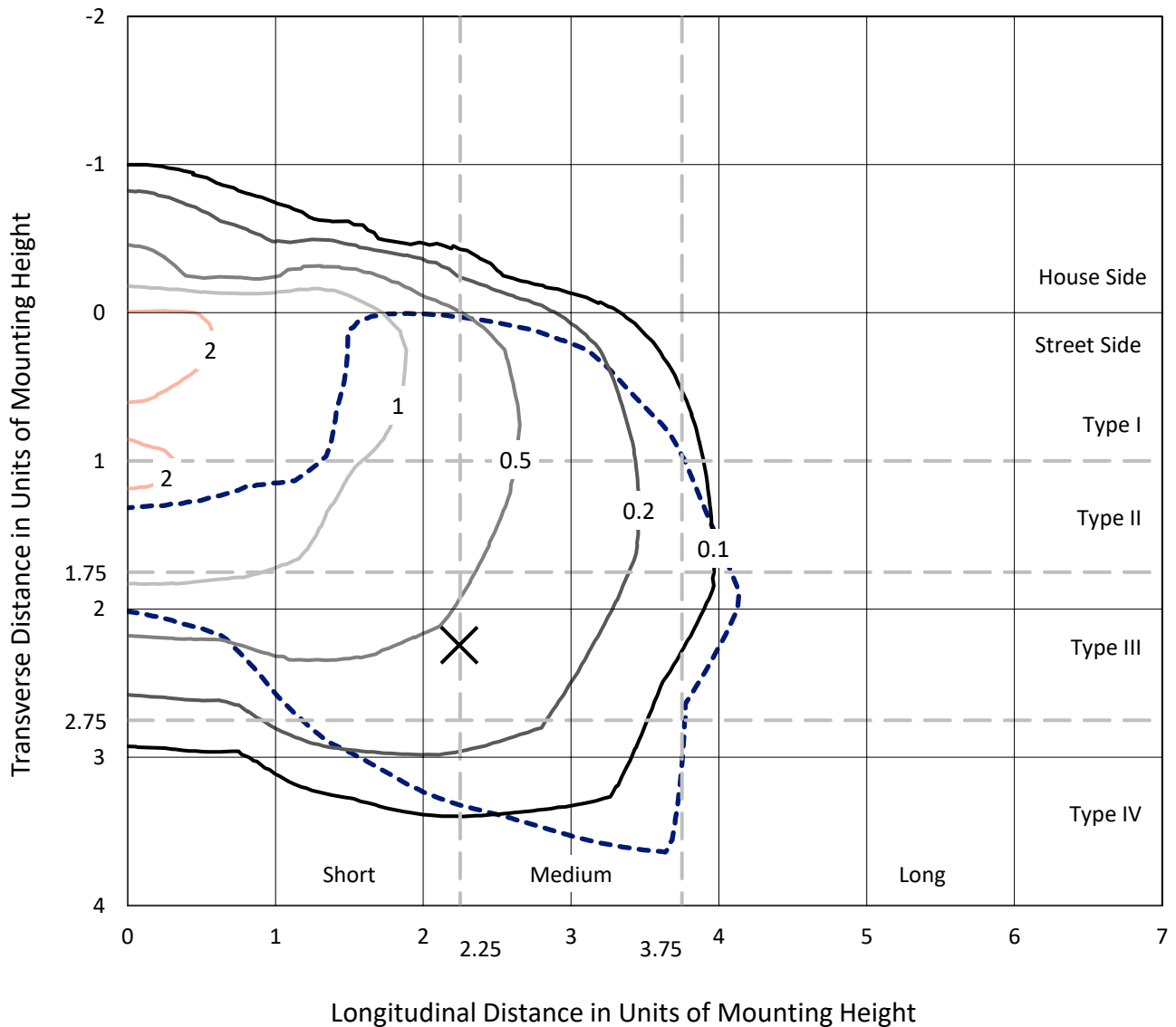
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

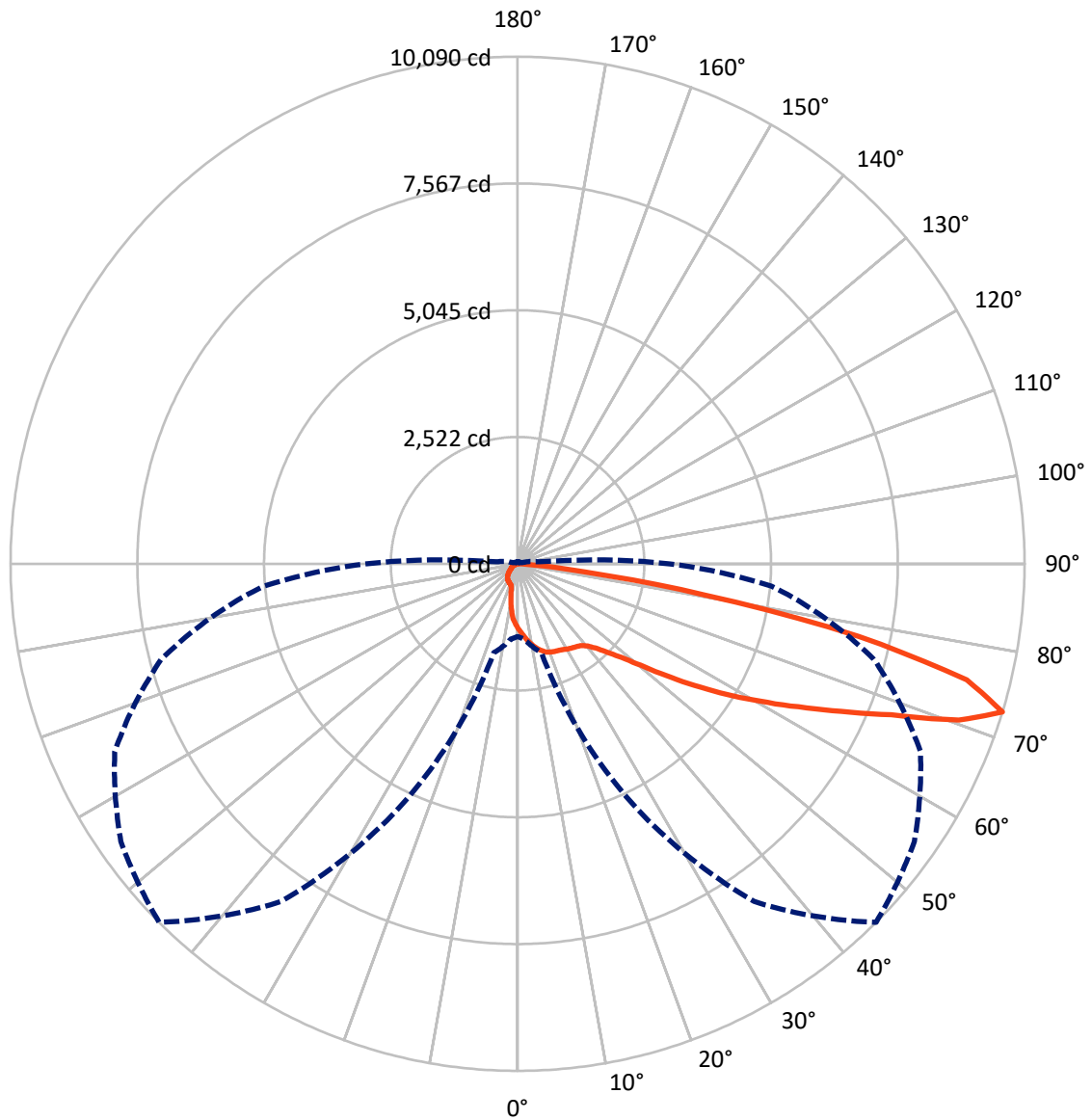
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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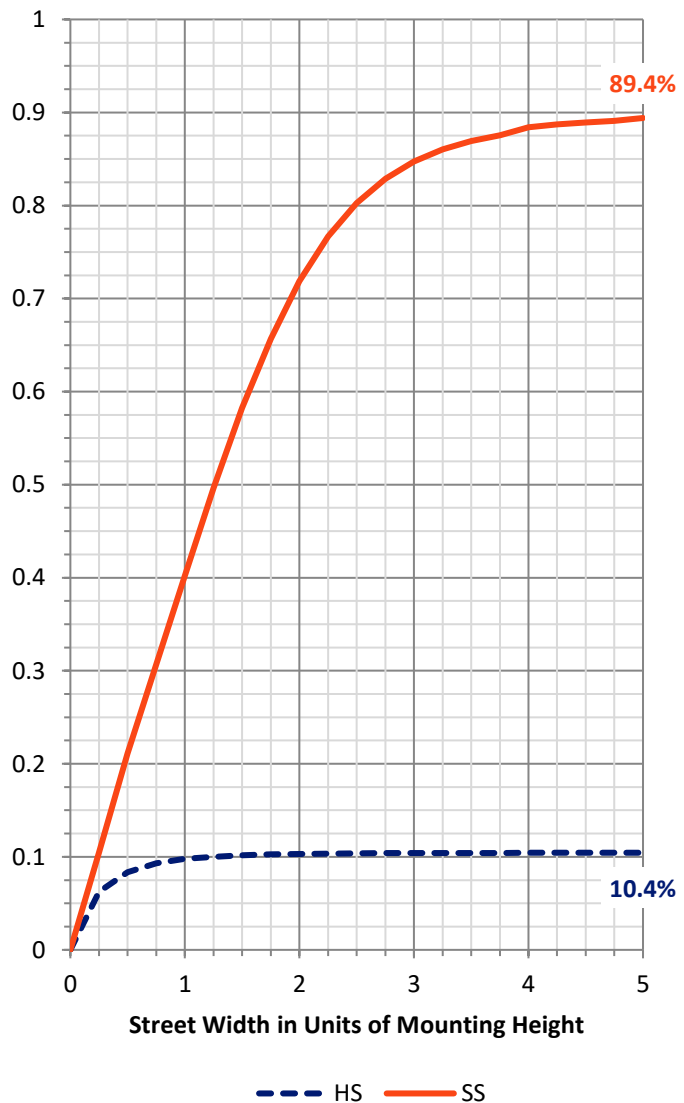
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1232.1	0.0	1232.1
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	10493.9	0.0	10493.9
	% Fixture	89.5	0.0	89.5
Total	Lumens	11726.0	0.0	11726.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.0	1.0
10°-20°	353.7	3.0
20°-30°	580.9	5.0
30°-40°	823.8	7.0
40°-50°	1361.7	11.6
50°-60°	2446.2	20.9
60°-70°	3396.6	29.0
70°-80°	2463.8	21.0
80°-90°	178.1	1.5
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°	11726.0	100.0
0°-180°	11726.0	100.0

Coefficient of Utilization



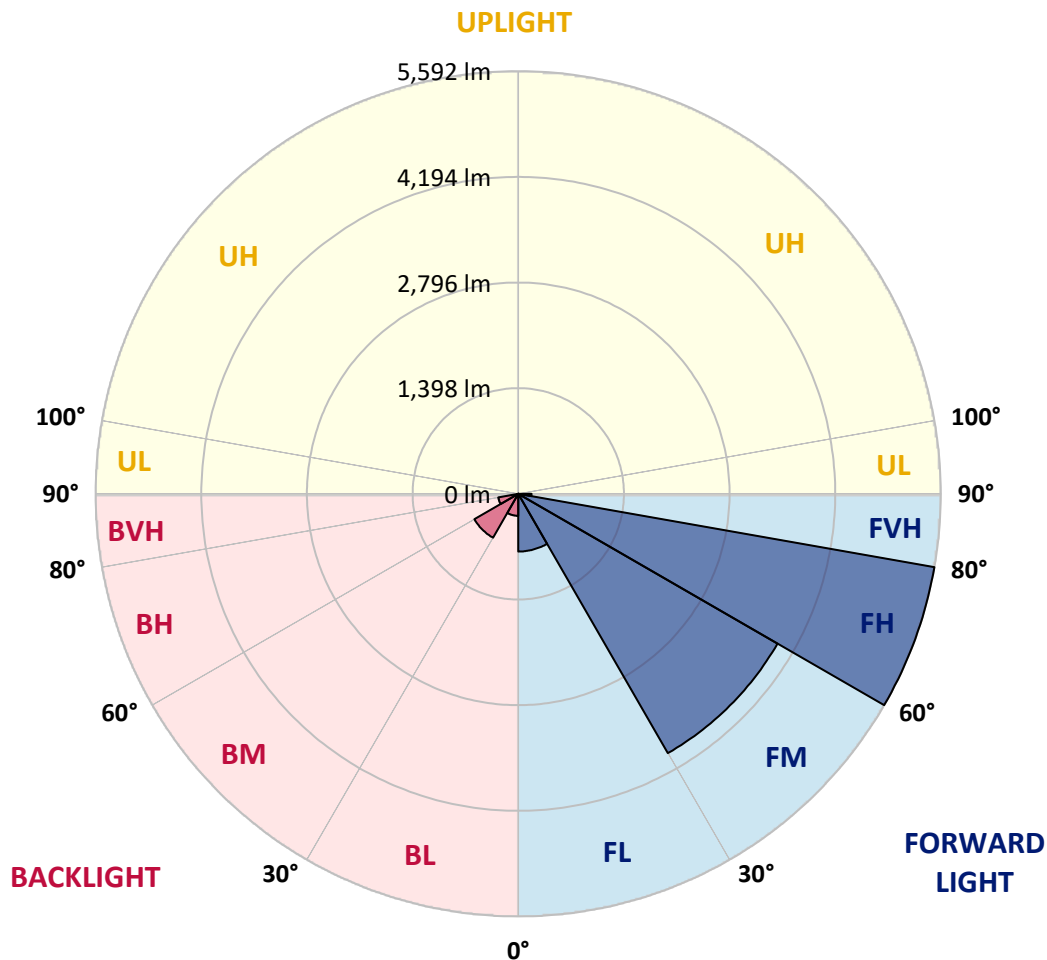
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	763.8	6.5			
FM (30°-60°)	3961.7	33.8			
FH (60°-80°)	5591.8	47.7			G3/7500
FVH (80°-90°)	176.6	1.5			G2/225
BL (0°-30°)	291.8	2.5	B1/500		
BM (30°-60°)	670.1	5.7	B1/1000		
BH (60°-80°)	268.7	2.3	B1/500		G1/500
BVH (80°-90°)	1.5	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-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1403.0	1405.5	1403.8	1394.3	1378.2	1369.4	1364.7	1348.6	1338.2	1319.8	1300.6
5°	1532.0	1541.5	1536.0	1516.7	1486.4	1464.7	1458.3	1425.5	1395.8	1361.4	1321.4
7.5°	1668.8	1673.6	1663.2	1638.4	1597.6	1560.8	1555.1	1509.5	1462.3	1409.5	1355.0
10°	1787.3	1792.8	1776.8	1740.9	1694.4	1648.8	1640.8	1590.4	1534.3	1469.5	1399.8
12.5°	1886.5	1892.0	1871.2	1828.1	1776.8	1729.6	1721.6	1668.8	1607.2	1535.1	1448.7
15°	1961.7	1972.1	1944.1	1897.7	1842.4	1795.3	1791.3	1739.2	1679.2	1599.2	1507.2
17.5°	2005.7	2016.2	1989.7	1933.8	1886.5	1846.4	1841.7	1798.5	1742.4	1665.6	1563.9
20°	2013.0	2022.5	1994.5	1945.8	1906.5	1874.5	1872.1	1840.9	1800.0	1726.4	1625.5
22.5°	1991.4	2003.4	1977.7	1938.5	1911.3	1894.5	1891.3	1873.7	1850.4	1788.0	1683.2
25°	1968.9	1978.6	1959.3	1925.0	1910.5	1908.9	1911.3	1908.1	1903.3	1850.4	1750.4
27.5°	1967.3	1977.7	1956.1	1923.3	1915.3	1932.1	1934.5	1949.8	1953.8	1907.3	1815.3
30°	1980.9	1988.2	1967.3	1932.9	1928.9	1967.3	1968.1	1995.4	2001.7	1955.3	1879.3
32.5°	2010.5	2018.5	1997.7	1947.3	1941.8	1995.4	1997.7	2033.8	2044.2	2006.5	1946.5
35°	2080.1	2089.8	2065.8	1987.4	1967.3	2021.7	2029.0	2071.4	2092.2	2061.0	2016.2
37.5°	2253.9	2225.9	2193.0	2068.1	2025.8	2063.4	2075.4	2125.0	2161.8	2125.8	2099.4
40°	2685.3	2597.2	2494.7	2205.8	2128.2	2152.2	2161.8	2211.4	2261.9	2226.6	2213.9
42.5°	3332.8	3228.7	3063.8	2522.8	2282.7	2294.7	2301.8	2345.1	2416.3	2388.4	2391.5
45°	3909.9	3872.2	3704.1	3063.8	2571.6	2512.4	2521.2	2543.6	2648.5	2638.0	2658.8
47.5°	4353.3	4331.6	4202.0	3685.0	3059.8	2778.9	2803.7	2814.1	2965.4	3002.2	3058.3
50°	4694.2	4686.2	4570.2	4237.2	3697.8	3171.9	3180.7	3158.3	3384.8	3476.1	3582.5
52.5°	5015.9	5043.2	4957.5	4750.3	4378.9	3686.5	3685.0	3579.3	3885.1	4022.7	4204.3
55°	5306.5	5316.2	5324.9	5273.7	5064.0	4272.4	4257.2	4084.3	4465.3	4607.8	4804.7
57.5°	5579.5	5583.5	5661.9	5766.8	5777.1	4901.5	4873.5	4666.2	5099.2	5200.8	5321.7
60°	5762.8	5781.1	5946.8	6238.2	6365.5	5550.6	5535.4	5324.2	5744.3	5791.6	5769.1
62.5°	5498.6	5610.6	6028.4	6606.3	6920.9	6270.1	6263.0	6064.5	6423.1	6384.6	6192.5
65°	4450.9	4640.6	5375.3	6855.2	7465.9	7073.7	7084.2	6872.8	7120.2	6995.3	6536.7
67.5°	3113.4	3313.6	4182.8	6875.3	8075.1	8017.3	8077.4	7746.0	7860.5	7580.4	6618.3
70°	2153.0	2256.2	2822.1	6444.7	8549.6	9317.2	9315.6	8818.6	8596.9	7846.9	6202.2
72.5°	1447.9	1501.5	1832.9	5112.8	8200.7	10089.6	10043.2	9638.2	8845.0	7338.7	5067.2
75°	610.7	650.0	848.4	2873.4	6487.8	9230.7	9105.1	8517.6	7858.9	5778.7	3161.5
77.5°	193.7	210.5	334.6	1028.5	3573.7	6938.5	6805.6	5319.3	5267.3	2899.0	1155.8
80°	92.0	107.2	188.1	413.0	1406.3	3773.7	3755.4	2413.2	2265.9	782.8	232.1
82.5°	40.0	47.3	104.0	220.9	629.1	1346.2	1373.5	821.2	679.5	296.9	71.2
85°	12.8	16.8	48.1	101.7	265.7	334.6	330.6	195.3	273.8	161.6	24.8
87.5°	0.0	0.0	16.0	23.2	27.2	19.2	21.6	16.8	76.1	44.8	8.8
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°	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6	1284.6
2.5°	1291.0	1278.2	1255.8	1235.0	1216.6	1198.1	1186.9	1171.0	1169.3	1169.3	1173.3
5°	1299.8	1279.0	1239.0	1196.6	1147.7	1101.4	1054.9	1010.0	995.7	985.2	990.0
7.5°	1325.4	1292.6	1229.4	1148.5	1055.8	954.1	882.8	806.0	776.3	760.3	762.8
10°	1362.2	1317.4	1221.4	1079.7	929.3	790.8	689.1	605.9	573.9	560.3	560.3
12.5°	1403.0	1347.9	1206.9	994.0	790.8	625.0	525.8	487.4	482.7	482.7	482.7
15°	1451.9	1384.7	1182.1	893.2	646.0	494.7	459.4	461.0	465.9	469.0	469.0
17.5°	1502.3	1423.8	1143.0	780.3	517.8	445.1	445.8	448.2	452.2	455.4	455.4
20°	1556.8	1463.1	1090.9	660.3	444.2	430.6	433.0	435.4	438.6	440.2	441.1
22.5°	1615.2	1499.9	1029.3	542.6	419.4	418.6	419.4	421.8	425.8	425.8	427.4
25°	1677.6	1540.8	958.9	457.0	406.6	406.6	408.2	409.8	413.0	413.0	413.8
27.5°	1741.6	1578.4	884.4	412.2	395.3	394.6	394.6	397.0	398.6	399.3	400.2
30°	1812.1	1622.4	810.0	402.6	386.6	382.5	380.2	381.8	383.3	384.2	385.8
32.5°	1884.1	1664.8	743.5	406.6	377.8	370.5	362.5	361.0	361.0	364.2	366.5
35°	1964.1	1711.2	692.3	420.2	373.0	353.0	340.2	332.9	333.7	338.6	340.9
37.5°	2060.1	1767.2	654.7	432.2	369.8	332.9	312.1	303.3	297.8	303.3	301.8
40°	2185.8	1849.7	627.5	441.8	365.8	309.8	281.8	267.3	257.0	260.1	258.5
42.5°	2370.7	1979.4	617.0	442.6	357.0	282.5	250.5	231.3	216.1	216.9	213.7
45°	2630.0	2184.3	670.8	432.2	337.7	253.0	217.7	192.1	182.4	180.1	176.9
47.5°	2985.4	2482.8	794.8	410.6	309.8	224.1	185.7	164.1	156.8	152.8	150.5
50°	3461.6	2866.2	932.4	386.6	281.8	196.9	159.3	145.7	140.8	136.8	136.0
52.5°	4013.9	3255.1	1045.3	362.5	253.7	172.9	142.5	134.5	130.5	127.3	126.5
55°	4520.6	3523.2	1038.9	336.9	226.5	153.6	130.5	125.7	120.8	117.7	116.0
57.5°	4835.8	3560.8	856.4	308.9	195.3	138.5	119.2	116.0	110.5	106.5	105.7
60°	4980.8	3346.4	600.2	272.1	164.1	124.0	107.2	105.7	98.4	92.9	91.2
62.5°	5007.1	2947.8	400.2	226.5	136.8	110.5	95.2	92.9	83.2	73.6	68.9
65°	4899.9	2377.9	277.0	176.9	116.8	96.0	81.6	76.9	66.4	56.8	53.6
67.5°	4560.5	1669.6	192.9	127.3	99.2	76.1	64.8	63.2	55.2	47.3	44.8
70°	3938.7	951.6	128.8	95.2	78.4	52.1	51.2	52.8	44.8	38.4	35.3
72.5°	3019.9	435.4	80.1	69.6	53.6	35.3	40.8	41.6	34.4	28.8	25.6
75°	1777.7	186.4	50.4	44.8	27.2	23.2	29.6	30.4	23.2	18.4	16.0
77.5°	605.1	70.4	32.0	26.4	13.6	12.8	19.2	19.2	12.8	7.2	5.6
80°	137.7	26.4	16.0	10.5	6.4	5.6	6.4	5.6	3.2	0.8	0.0
82.5°	39.3	10.5	6.4	4.0	2.4	2.4	0.8	0.0	0.0	0.0	0.0
85°	11.2	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.8	0.8	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)