

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: P965535

Luminaire Tested: **NAV-SB4A-722-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965535
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-SB4A-722-U-T3R-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 350mA 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: 12673.1 lumens
Efficiency: N/A
Efficacy: 111.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

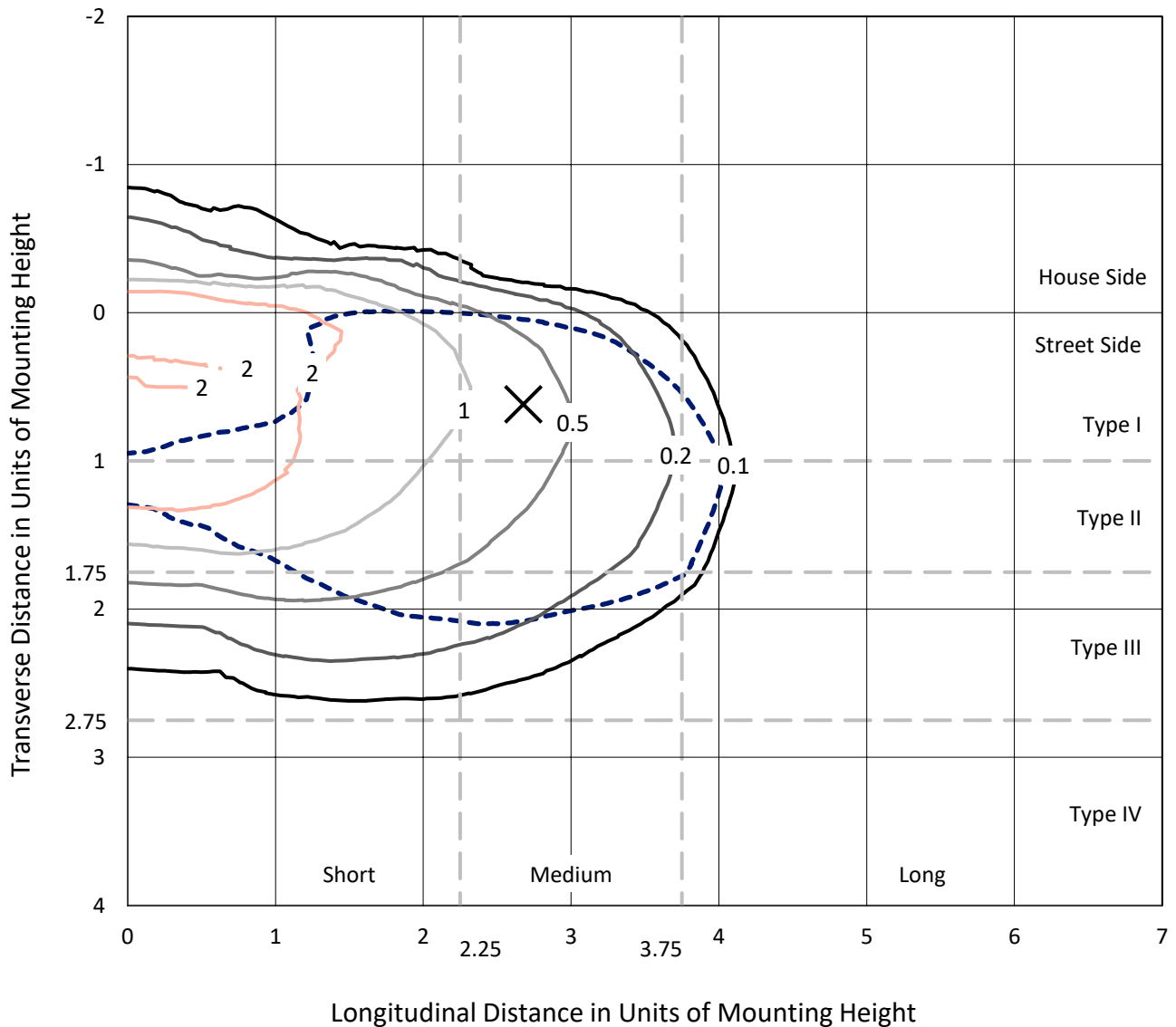
Input Watts (W): 114
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

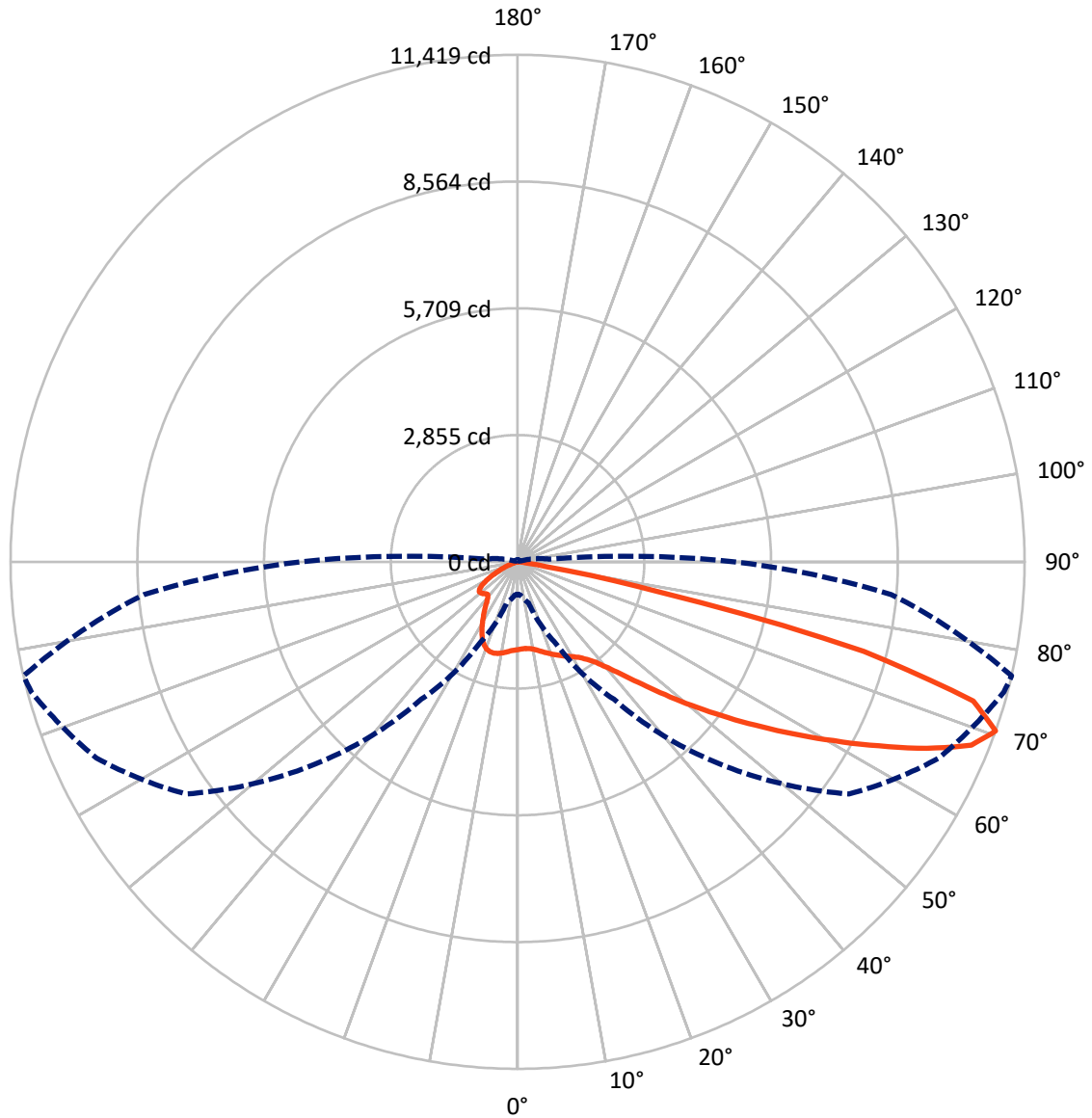
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.7 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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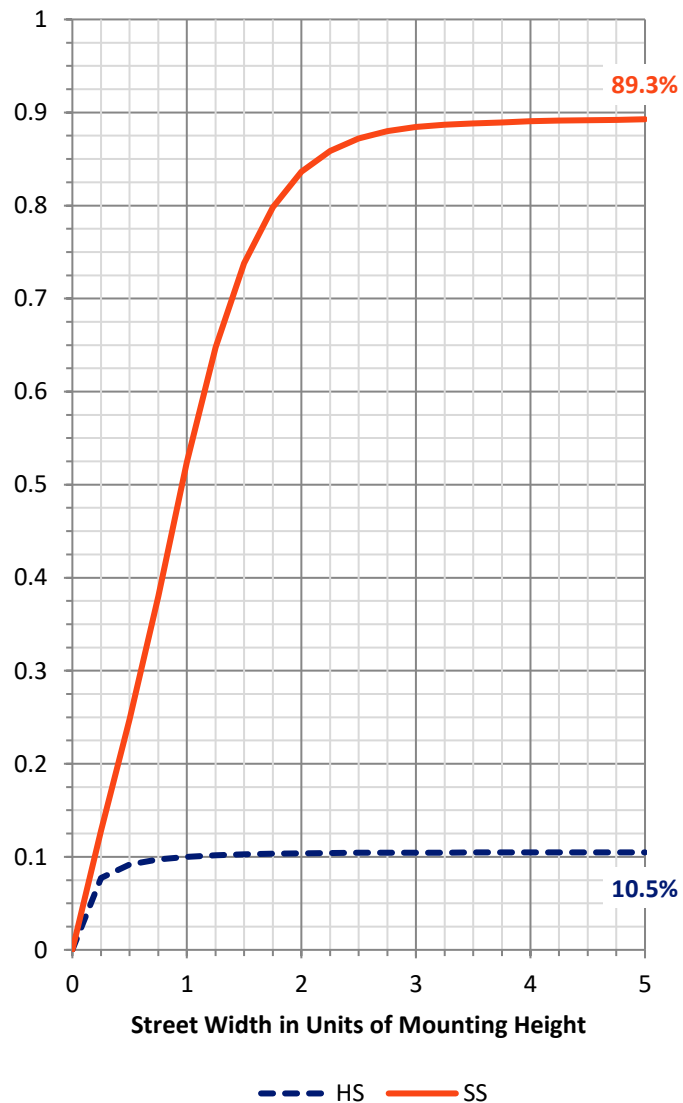
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1335.9	0.0	1335.9
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	11337.2	0.0	11337.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	12673.1	0.0	12673.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.4	1.3
10°-20°	404.4	3.2
20°-30°	625.5	4.9
30°-40°	1135.1	9.0
40°-50°	2142.6	16.9
50°-60°	3095.9	24.4
60°-70°	3295.5	26.0
70°-80°	1746.4	13.8
80°-90°	57.3	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°	12673.1	100.0
0°-180°	12673.1	100.0

Coefficient of Utilization

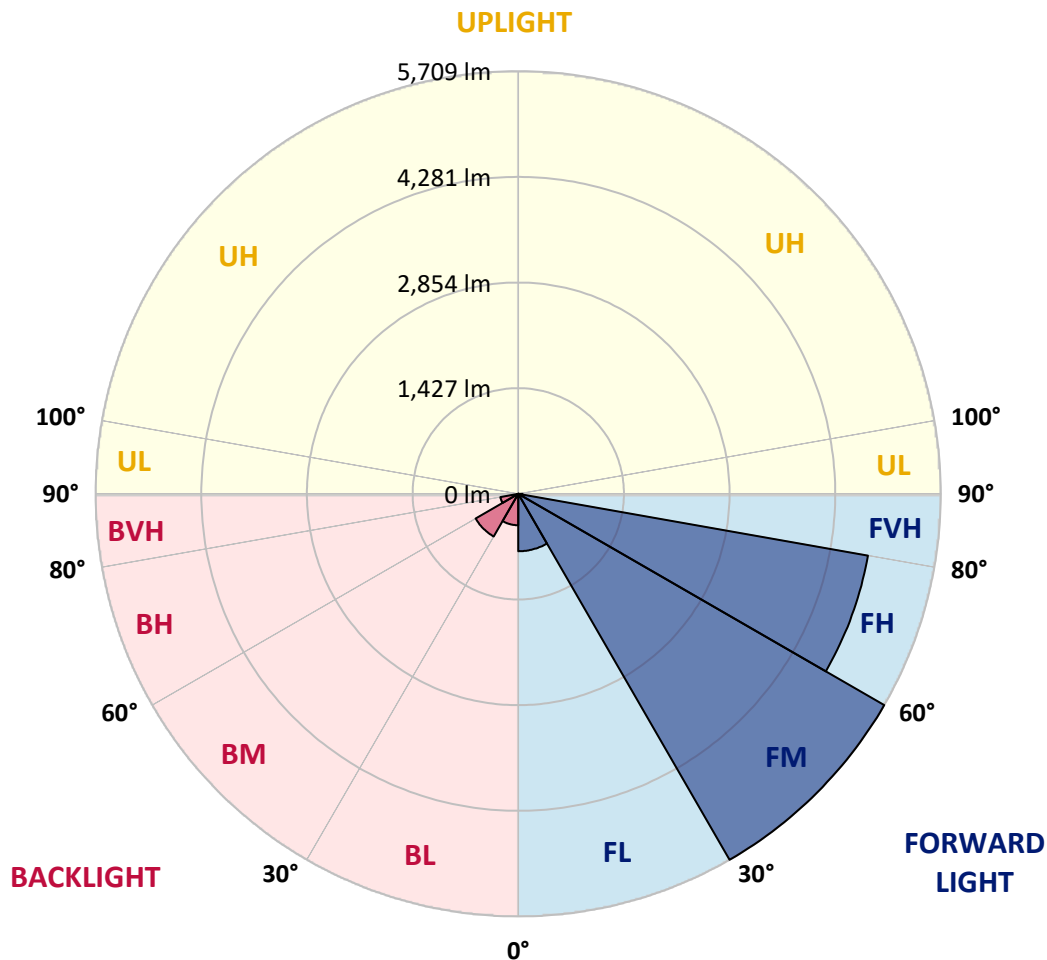


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	775.9	6.1			
FM (30°-60°)	5708.5	45.0			
FH (60°-80°)	4796.9	37.9			G2/5000
FVH (80°-90°)	55.8	0.4			G1/100
BL (0°-30°)	424.4	3.3	B1/500		
BM (30°-60°)	665.0	5.2	B1/1000		
BH (60°-80°)	244.9	1.9	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-G2
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8
2.5°	1856.0	1872.8	1870.3	1881.5	1885.6	1901.6	1917.6	1939.2	1963.2	1962.4	1978.4
5°	1751.1	1767.9	1771.9	1787.1	1806.4	1831.2	1864.0	1907.1	1952.0	1959.2	1991.2
7.5°	1627.1	1644.6	1655.1	1685.5	1720.7	1771.9	1825.5	1888.8	1963.2	1973.5	2035.2
10°	1503.0	1518.9	1532.6	1575.8	1631.8	1707.9	1795.1	1886.3	1986.3	2001.6	2088.8
12.5°	1426.2	1441.4	1456.5	1494.1	1563.8	1656.6	1775.1	1897.6	2024.8	2046.4	2161.6
15°	1398.9	1412.6	1424.5	1458.2	1523.0	1628.6	1771.1	1920.7	2073.6	2102.4	2249.7
17.5°	1402.9	1410.2	1418.2	1443.8	1507.0	1615.8	1778.3	1960.7	2131.3	2156.8	2337.7
20°	1426.2	1430.2	1431.0	1448.5	1504.6	1614.3	1792.7	1999.2	2185.6	2220.0	2424.9
22.5°	1455.8	1457.3	1455.8	1467.8	1519.8	1626.3	1811.9	2045.6	2246.5	2278.5	2513.0
25°	1594.2	1563.8	1525.4	1502.1	1545.4	1649.4	1840.7	2108.0	2312.9	2344.1	2598.6
27.5°	2024.0	1936.7	1799.1	1644.6	1598.2	1683.0	1880.8	2171.3	2380.2	2408.1	2690.6
30°	2721.9	2607.4	2373.7	2025.6	1767.9	1753.5	1932.7	2234.5	2451.4	2481.7	2789.1
32.5°	3421.3	3393.4	3123.6	2641.8	2149.6	1910.4	2019.1	2320.1	2545.8	2569.8	2922.0
35°	4128.8	4072.0	3851.1	3374.9	2737.9	2229.7	2163.3	2432.1	2669.8	2697.1	3115.6
37.5°	4670.6	4636.2	4499.3	4107.2	3435.7	2722.7	2409.8	2605.9	2849.9	2880.4	3363.7
40°	5149.2	5133.2	5086.8	4828.3	4216.0	3367.7	2793.1	2874.7	3099.6	3135.7	3667.9
42.5°	5525.4	5563.0	5589.4	5517.4	5020.3	4104.0	3308.5	3252.4	3447.8	3484.6	4055.2
45°	5910.4	5923.2	6029.6	6133.6	5819.1	4873.9	3889.6	3695.0	3880.8	3926.4	4519.3
47.5°	6157.6	6208.8	6396.1	6579.4	6490.5	5637.4	4513.8	4217.7	4382.5	4468.2	5039.6
50°	6176.0	6272.9	6530.6	6849.9	6979.5	6364.1	5192.4	4813.1	4988.4	5082.8	5595.0
52.5°	5869.5	6019.9	6419.3	6886.7	7243.7	6979.5	5894.3	5408.5	5633.4	5756.6	6171.2
55°	4500.2	4697.1	6000.8	6686.6	7254.0	7446.1	6577.7	6028.7	6352.1	6491.3	6793.9
57.5°	3920.7	4019.9	4717.9	6339.3	7061.1	7634.2	7195.6	6619.3	7134.0	7306.8	7382.0
60°	3262.1	3392.5	3956.7	5771.1	6799.4	7652.6	7741.4	7381.3	7981.6	8176.0	7921.5
62.5°	2216.9	2358.5	2919.5	4794.6	6441.7	7643.8	8188.8	8165.6	8923.5	9132.3	8378.5
65°	1373.3	1462.2	1831.9	3915.1	5941.5	7653.4	8656.9	9118.0	9917.5	10129.6	8732.2
67.5°	1085.3	1126.1	1318.9	3006.0	5079.6	7437.3	9124.3	10013.5	10853.0	11021.1	8840.2
70°	729.1	753.9	959.6	2015.2	3779.1	6440.1	9115.5	10463.3	11334.9	11418.9	8446.5
72.5°	384.2	403.3	561.0	933.2	2282.5	4577.8	7683.8	9925.5	10855.5	10729.0	7219.6
75°	192.1	224.1	377.7	473.8	974.8	2553.0	4771.5	7825.5	8544.2	8054.3	4632.2
77.5°	145.7	176.1	312.1	312.1	339.4	859.6	2020.8	4268.1	3936.7	3278.1	1359.8
80°	92.9	120.0	273.0	236.1	141.7	218.5	526.6	1195.7	836.3	636.2	247.3
82.5°	54.4	78.4	227.2	156.1	79.2	80.9	148.8	254.5	216.9	168.8	76.1
85°	21.6	51.2	156.1	61.6	31.3	20.0	44.8	54.4	44.8	33.6	19.2
87.5°	0.0	12.0	27.2	0.0	2.4	1.6	3.2	4.0	4.0	3.2	6.4
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°	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8	1976.8
2.5°	1985.5	1987.2	1992.0	1992.8	1981.5	1967.2	1961.5	1959.2	1949.5	1948.7	1950.4
5°	2009.6	2016.8	2009.6	1988.8	1939.2	1869.5	1816.7	1773.5	1734.3	1722.3	1715.0
7.5°	2057.6	2064.8	2043.2	1961.5	1836.7	1698.2	1573.4	1485.4	1406.2	1376.6	1364.6
10°	2126.5	2136.0	2068.0	1903.1	1682.2	1459.8	1248.4	1099.6	983.6	936.3	916.4
12.5°	2212.9	2216.9	2081.6	1814.4	1481.3	1163.7	864.4	705.1	601.9	563.4	551.4
15°	2308.1	2302.5	2083.2	1693.5	1207.7	822.8	564.3	463.4	421.8	409.0	409.0
17.5°	2408.1	2385.0	2051.2	1518.9	907.5	562.6	418.6	394.5	387.3	384.2	383.3
20°	2506.5	2454.6	1992.8	1290.9	651.5	420.1	380.2	372.9	368.9	367.4	365.7
22.5°	2596.2	2507.4	1892.8	1026.0	472.9	371.4	359.4	352.9	345.7	342.6	341.7
25°	2683.4	2537.8	1751.9	778.7	378.5	347.4	337.7	325.7	316.1	312.1	310.5
27.5°	2768.3	2557.0	1575.8	576.3	337.7	324.9	307.3	290.5	283.3	281.7	280.1
30°	2858.7	2563.4	1375.8	429.8	312.9	296.9	271.3	252.2	248.0	248.9	248.9
32.5°	2969.1	2573.1	1174.0	352.1	292.1	263.3	232.9	212.9	209.7	212.9	212.1
35°	3101.2	2592.2	979.6	324.1	273.7	228.9	196.1	179.3	176.1	178.5	177.6
37.5°	3280.5	2623.4	798.0	318.6	258.5	200.1	164.8	151.3	151.3	152.1	151.3
40°	3519.0	2706.6	635.5	314.6	250.5	178.5	139.3	133.7	136.0	137.7	137.7
42.5°	3809.5	2883.5	525.8	309.8	241.7	168.8	126.5	124.0	128.0	129.7	129.7
45°	4135.3	3107.6	487.4	301.8	233.7	175.3	120.8	117.7	122.5	123.2	124.0
47.5°	4472.2	3326.9	482.6	292.9	225.7	184.9	119.2	112.0	117.7	118.5	119.2
50°	4813.1	3470.1	487.4	279.3	212.9	184.9	120.0	106.4	111.2	113.7	114.5
52.5°	5156.5	3535.7	484.2	249.7	190.4	173.6	120.0	101.7	106.4	108.0	108.0
55°	5489.4	3523.0	435.4	205.7	161.6	153.6	116.8	97.7	100.9	101.7	101.7
57.5°	5752.6	3344.5	344.9	160.1	131.3	128.0	106.4	92.9	95.2	94.4	94.4
60°	5890.3	2952.3	246.5	123.2	103.2	100.9	93.7	86.4	88.0	84.0	83.2
62.5°	5891.9	2433.8	164.8	97.7	82.4	80.1	80.1	77.6	76.1	68.1	65.6
65°	5766.2	1858.3	109.7	77.6	66.4	62.4	67.2	66.4	60.8	49.6	48.0
67.5°	5481.4	1218.1	83.2	60.8	51.2	48.8	53.6	56.1	52.1	41.6	40.8
70°	4895.5	709.1	68.8	47.3	38.4	36.0	43.3	48.0	43.3	33.6	32.0
72.5°	4066.4	382.5	56.1	35.3	26.4	24.0	34.4	39.3	34.4	24.8	24.0
75°	2638.7	204.9	43.3	23.2	13.6	15.2	25.6	28.8	24.0	16.0	14.5
77.5°	885.9	90.4	27.2	11.2	6.4	6.4	15.2	17.6	11.2	5.6	4.8
80°	197.7	37.6	11.2	4.8	2.4	2.4	3.2	3.2	1.6	0.0	0.0
82.5°	64.8	15.2	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.8	5.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.6	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)