

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: P964477

Luminaire Tested: **NAV-SB3C-722-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P964477
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB3C-722-U-T2U-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14540.6 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

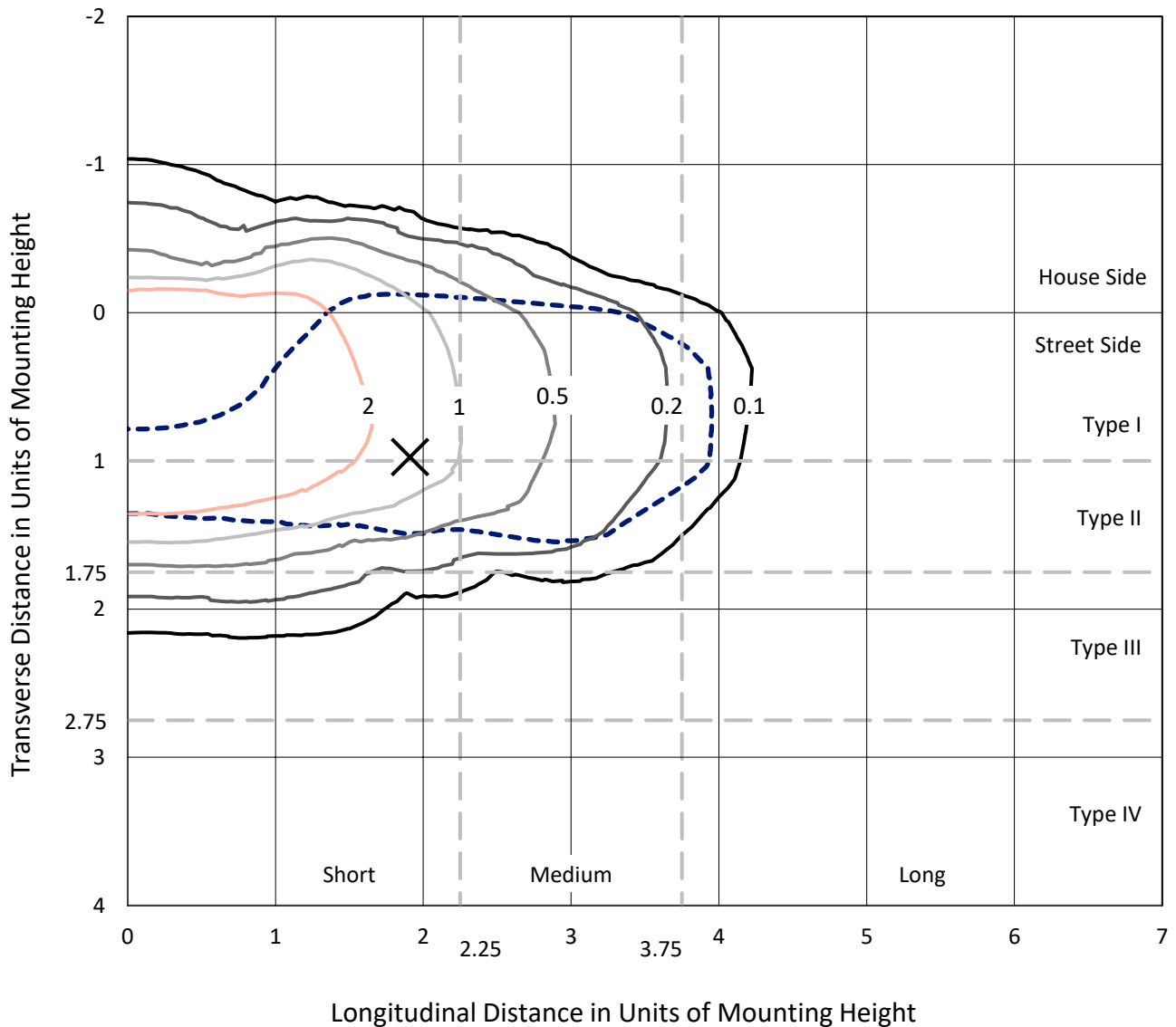
Input Watts (W): 149.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

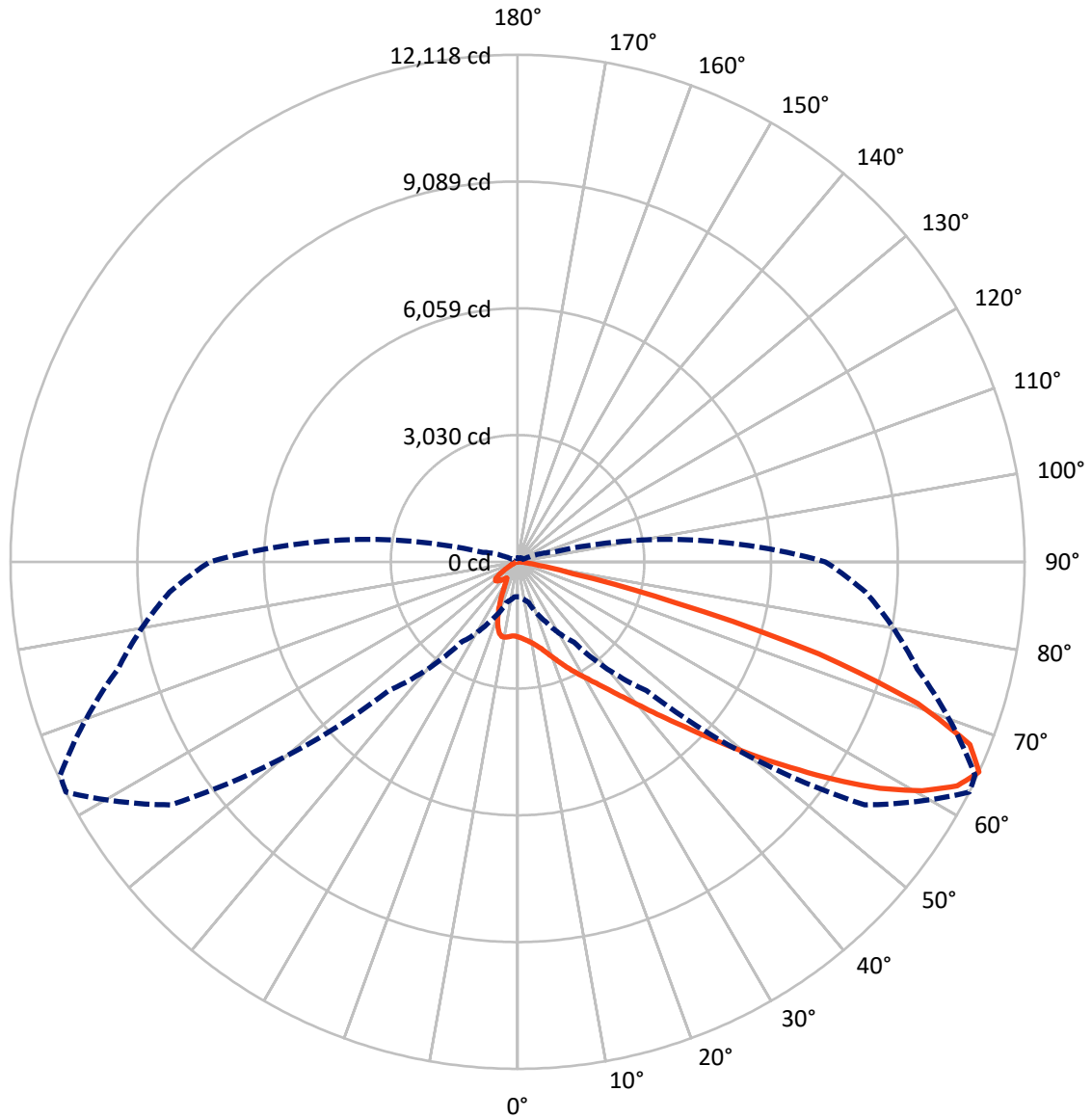
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 63-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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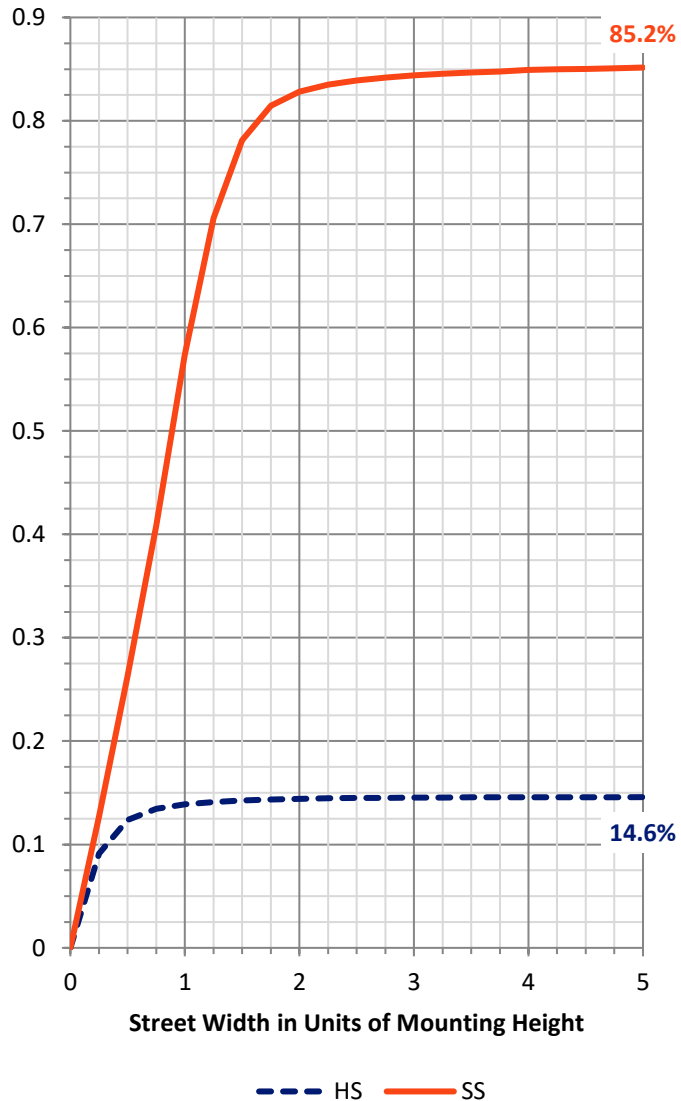
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2137.4	0.0	2137.4
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	12403.3	0.0	12403.3
	% Fixture	85.3	0.0	85.3
Total	Lumens	14540.6	0.0	14540.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.1	1.2
10°-20°	469.1	3.2
20°-30°	816.9	5.6
30°-40°	1472.4	10.1
40°-50°	2920.2	20.1
50°-60°	3977.8	27.4
60°-70°	3175.1	21.8
70°-80°	1436.8	9.9
80°-90°	103.3	0.7
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°	14540.6	100.0
0°-180°	14540.6	100.0

Coefficient of Utilization

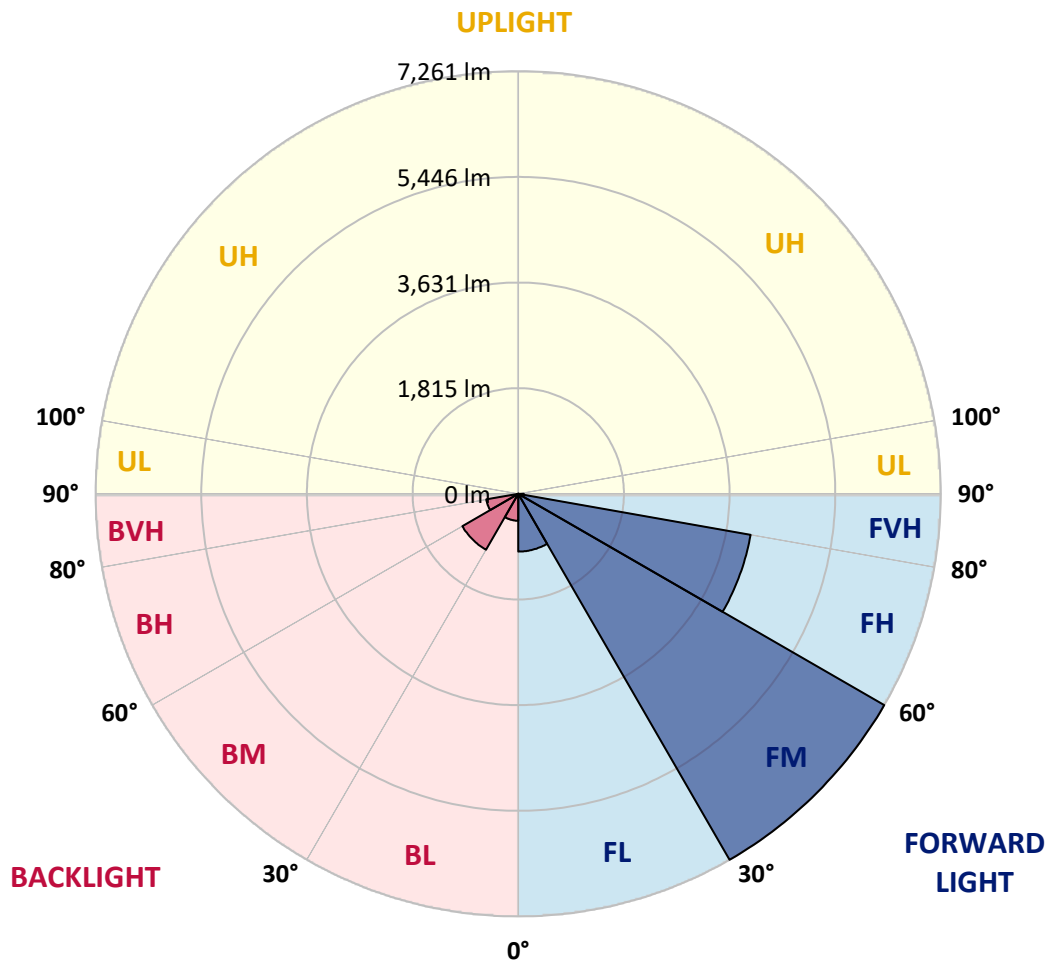


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	992.6	6.8			
FM (30°-60°)	7261.2	49.9			
FH (60°-80°)	4053.9	27.9			G2/5000
FVH (80°-90°)	95.6	0.7			G1/100
BL (0°-30°)	462.6	3.2	B1/500		
BM (30°-60°)	1109.2	7.6	B2/2500		
BH (60°-80°)	558.0	3.8	B2/1000		G2/1000
BVH (80°-90°)	7.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6
2.5°	1836.6	1831.6	1838.6	1835.6	1833.6	1829.6	1827.6	1825.6	1821.6	1818.6	1806.6
5°	1841.6	1838.6	1845.6	1851.6	1857.6	1863.7	1866.6	1870.6	1866.6	1858.6	1846.6
7.5°	1799.6	1797.5	1812.6	1830.6	1857.6	1880.7	1905.6	1919.6	1920.6	1917.7	1904.7
10°	1796.6	1791.6	1806.6	1828.6	1863.7	1904.7	1948.6	1978.7	1982.7	1995.7	1981.6
12.5°	1843.6	1838.6	1859.7	1883.6	1919.6	1962.7	2016.7	2058.7	2064.7	2082.7	2072.7
15°	1922.6	1915.6	1939.6	1970.7	2016.7	2065.7	2122.7	2160.7	2165.7	2187.8	2169.7
17.5°	2014.6	2007.7	2035.6	2068.7	2118.7	2185.7	2251.7	2293.7	2299.8	2313.7	2280.7
20°	2132.7	2123.7	2145.7	2175.8	2228.8	2308.7	2387.7	2447.8	2446.8	2446.8	2392.8
22.5°	2269.8	2255.7	2274.8	2298.8	2348.8	2445.9	2550.8	2621.8	2621.8	2593.9	2504.8
25°	2416.7	2402.8	2423.8	2445.9	2489.8	2599.8	2722.9	2811.0	2815.0	2766.9	2624.8
27.5°	2600.8	2582.9	2598.9	2624.8	2650.9	2762.9	2909.0	3011.0	3013.0	2939.0	2738.9
30°	2955.0	2903.9	2853.9	2825.9	2837.9	2948.9	3105.0	3218.1	3228.0	3126.0	2862.9
32.5°	3603.2	3593.1	3417.1	3187.0	3067.0	3149.0	3324.1	3460.1	3466.1	3335.1	3024.0
35°	4610.6	4598.6	4315.5	3877.3	3486.1	3417.1	3590.2	3751.2	3747.2	3599.2	3233.1
37.5°	5812.9	5801.9	5428.8	4842.6	4209.4	3822.2	3933.3	4102.4	4127.4	3933.3	3503.1
40°	6840.2	6799.2	6563.2	5998.0	5169.7	4494.5	4421.4	4533.5	4559.5	4329.4	3846.3
42.5°	7618.5	7583.5	7463.4	7110.3	6332.0	5488.8	4996.7	5039.6	5068.6	4792.6	4240.4
45°	8021.6	8013.7	8061.6	8028.6	7516.4	6709.2	5818.9	5639.9	5650.8	5305.7	4687.5
47.5°	8078.6	8074.6	8293.7	8603.8	8534.8	8085.7	6874.3	6388.1	6349.1	5884.9	5173.7
50°	7742.5	7734.5	8154.7	8735.9	9215.1	9242.0	8072.7	7231.4	7145.4	6484.2	5680.9
52.5°	6669.2	6667.2	7357.4	8324.7	9454.1	10254.4	9257.1	8157.7	8013.7	7118.3	6217.0
55°	5131.7	5168.7	5960.0	7103.4	9017.9	10741.5	10320.4	9186.0	8965.0	7756.6	6711.2
57.5°	3635.2	3689.2	4471.5	5489.8	7665.6	10453.5	11039.7	10216.4	9978.3	8392.8	7212.4
60°	1952.6	2000.7	2783.9	3999.3	5702.9	9379.1	11418.8	11110.7	10885.6	8996.9	7664.5
62.5°	1163.4	1179.4	1503.5	2581.9	3857.3	7165.4	11257.7	11791.9	11606.8	9504.1	8057.6
65°	835.3	838.2	1001.3	1576.6	2341.8	4353.5	10128.3	12118.0	12061.0	9886.2	8348.7
67.5°	703.3	701.2	769.3	1047.3	1595.5	2180.7	7762.5	11656.8	11898.9	10128.3	8513.8
70°	603.2	606.2	686.2	767.2	1199.4	1234.4	3859.2	10149.3	10665.5	10192.4	8503.8
72.5°	449.2	459.2	533.2	699.3	905.3	849.3	1332.4	7525.4	8458.8	9603.1	8062.6
75°	317.1	322.1	375.2	588.1	675.3	618.2	680.2	3890.3	5086.7	7362.5	6599.2
77.5°	244.1	253.1	284.1	411.1	665.2	434.2	416.2	1346.4	2068.7	4447.5	4524.5
80°	132.0	148.0	205.1	297.1	467.2	307.1	206.0	536.2	701.2	2079.7	1744.6
82.5°	68.1	76.1	143.1	214.0	266.1	268.0	102.0	223.0	289.0	642.2	239.0
85°	27.1	33.0	96.0	118.1	137.0	132.0	46.0	90.0	104.0	178.0	73.0
87.5°	6.0	10.0	35.1	27.1	26.0	28.0	11.0	21.0	20.0	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°	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6	1794.6
2.5°	1805.6	1801.6	1790.6	1778.6	1764.5	1756.5	1751.6	1750.6	1743.5	1738.6	1743.5
5°	1835.6	1831.6	1810.6	1785.6	1758.6	1737.6	1717.6	1699.6	1673.5	1668.6	1666.5
7.5°	1895.6	1884.7	1850.6	1816.6	1765.6	1704.6	1630.6	1545.5	1469.4	1446.5	1435.5
10°	1969.6	1954.7	1911.6	1851.6	1738.6	1572.6	1393.5	1227.4	1095.3	1058.3	1044.4
12.5°	2053.7	2040.7	1983.7	1872.6	1625.5	1324.4	1050.3	844.3	716.3	684.2	675.3
15°	2153.7	2134.7	2055.6	1840.6	1423.4	1006.3	721.2	599.2	553.2	547.1	541.2
17.5°	2259.7	2228.8	2119.7	1725.6	1151.4	715.2	557.2	522.1	502.1	496.2	493.1
20°	2356.8	2316.8	2157.7	1551.5	860.3	557.2	499.2	476.1	458.2	451.1	447.1
22.5°	2453.8	2396.8	2157.7	1314.5	645.2	494.2	458.2	437.2	416.2	407.1	402.1
25°	2554.8	2478.9	2119.7	1050.3	519.2	453.2	419.1	396.2	378.1	367.2	363.2
27.5°	2652.9	2547.8	2032.7	800.2	462.2	417.2	383.1	361.1	344.1	336.1	336.1
30°	2745.9	2615.9	1910.6	607.2	425.2	382.1	350.1	331.1	314.1	306.1	307.1
32.5°	2871.9	2701.9	1780.6	498.2	393.1	349.1	320.1	302.1	287.1	281.1	281.1
35°	3047.0	2828.9	1668.6	489.1	366.1	322.1	293.0	276.1	261.1	256.0	256.0
37.5°	3295.1	3034.0	1609.6	549.2	344.1	298.1	271.1	253.1	239.0	235.0	234.1
40°	3601.2	3312.1	1641.5	609.2	329.1	277.1	251.1	233.1	221.1	216.1	215.0
42.5°	3964.3	3655.3	1818.6	655.2	319.1	259.1	232.1	212.1	204.1	202.0	202.0
45°	4381.5	4032.3	2089.7	704.3	303.1	242.1	213.1	198.0	192.1	191.1	190.0
47.5°	4855.6	4446.4	2403.8	765.3	287.1	226.1	198.0	188.1	183.1	181.0	181.0
50°	5325.8	4863.6	2726.9	799.3	274.1	211.0	186.0	178.0	174.0	173.0	173.0
52.5°	5817.9	5292.8	2988.0	767.2	263.1	199.1	176.1	170.0	166.0	165.0	165.0
55°	6287.0	5639.9	3033.0	651.2	241.1	187.1	165.0	162.1	157.0	157.0	156.0
57.5°	6691.2	5813.9	2714.9	478.2	219.0	169.0	154.1	151.1	147.1	146.1	145.0
60°	7062.4	5763.9	2095.7	322.1	195.1	151.1	140.0	138.1	134.1	129.0	128.0
62.5°	7271.4	5543.8	1433.5	210.0	171.1	132.0	124.0	123.0	114.1	104.0	102.0
65°	7350.4	5091.7	894.3	153.0	143.1	113.1	107.0	105.1	92.0	81.1	80.1
67.5°	7281.4	4347.4	451.1	121.1	113.1	94.0	88.0	88.0	79.0	69.0	68.1
70°	7005.3	3259.1	190.0	97.1	87.0	72.1	72.1	76.1	67.0	56.1	55.0
72.5°	6406.1	2192.7	101.1	74.0	65.0	51.0	59.0	62.0	53.0	42.0	42.0
75°	5092.7	1337.4	70.0	55.0	41.0	36.0	45.0	47.0	36.0	28.0	27.1
77.5°	3483.2	768.2	47.0	35.1	26.0	21.0	31.1	29.0	19.0	13.0	14.0
80°	1529.5	320.1	27.1	16.0	10.0	8.0	11.0	8.0	6.0	4.0	4.0
82.5°	179.1	75.0	10.0	6.0	4.0	2.0	1.0	0.0	0.0	0.0	0.0
85°	37.0	9.0	5.0	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.0	2.0	1.0	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)