

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: P961395

Luminaire Tested: **NAV-SB2A-735-U-SL2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB2A-735-U-SL2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9138.9 lumens
Efficiency: N/A
Efficacy: 159.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

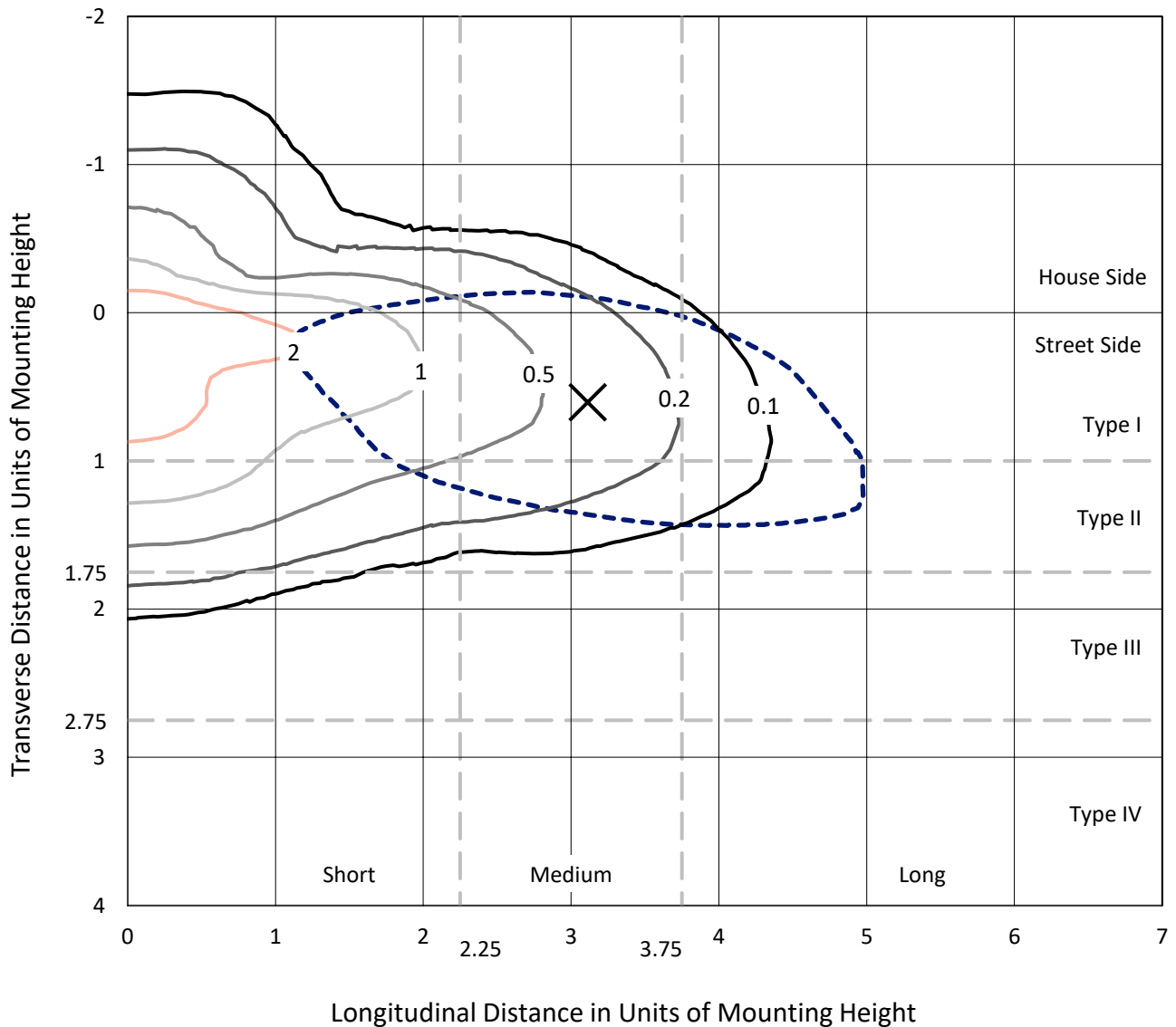
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

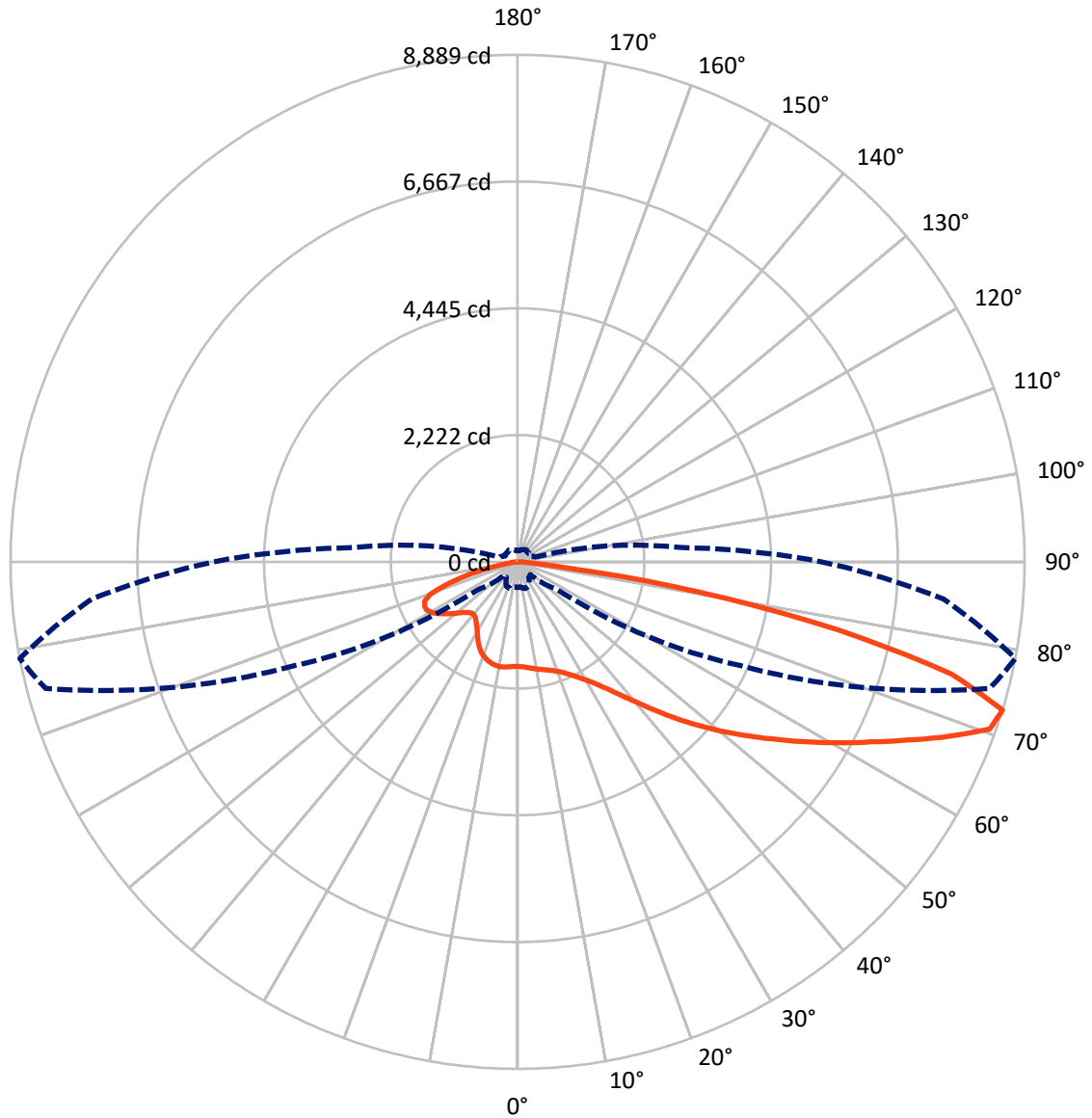
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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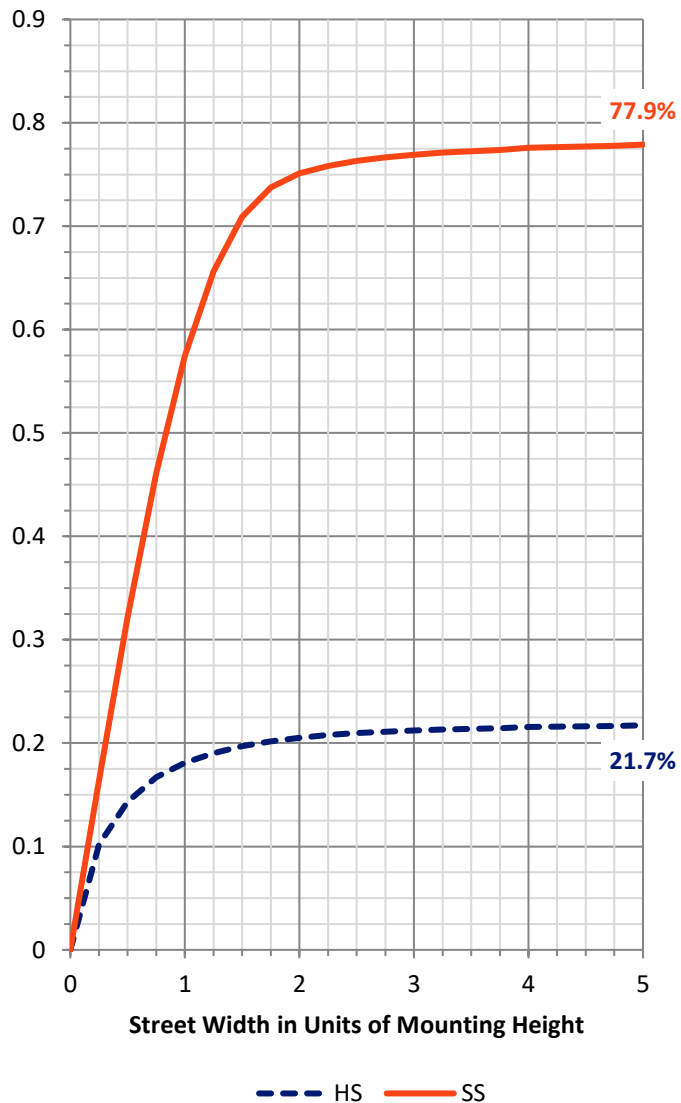
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2011.1	0.0	2011.1
	% Fixture	22.0	0.0	22.0
Street Side	Lumens	7127.8	0.0	7127.8
	% Fixture	78.0	0.0	78.0
Total	Lumens	9138.9	0.0	9138.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	166.5	1.8
10°-20°	435.4	4.8
20°-30°	702.5	7.7
30°-40°	1054.4	11.5
40°-50°	1495.7	16.4
50°-60°	1888.9	20.7
60°-70°	1918.4	21.0
70°-80°	1307.5	14.3
80°-90°	169.6	1.9
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°	9138.9	100.0
0°-180°	9138.9	100.0

Coefficient of Utilization

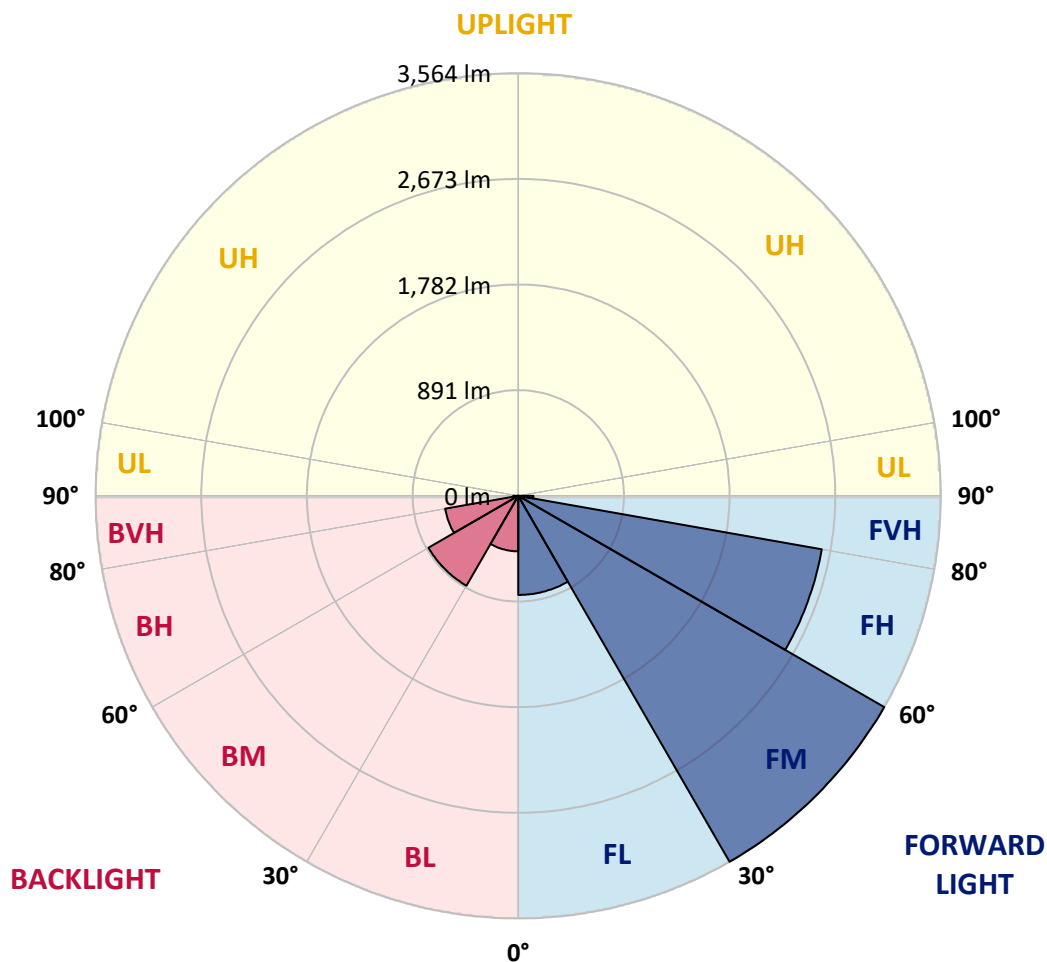


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	836.0	9.1			
FM (30°-60°)	3564.4	39.0			
FH (60°-80°)	2599.7	28.4			G2/5000
FVH (80°-90°)	127.8	1.4			G2/225
BL (0°-30°)	468.4	5.1	B1/500		
BM (30°-60°)	874.6	9.6	B1/1000		
BH (60°-80°)	626.2	6.9	B2/1000		G2/1000
BVH (80°-90°)	41.8	0.5			G1/100
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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5
2.5°	1835.5	1826.9	1832.1	1830.2	1832.6	1835.5	1836.5	1837.9	1842.7	1842.2	1841.8
5°	1831.7	1823.0	1830.2	1827.8	1834.0	1840.8	1846.6	1852.0	1859.7	1863.0	1858.2
7.5°	1823.5	1817.6	1824.9	1832.1	1843.8	1853.9	1862.1	1874.2	1885.3	1887.2	1890.6
10°	1775.6	1771.2	1788.1	1807.0	1838.8	1866.4	1884.4	1898.4	1910.4	1912.3	1917.2
12.5°	1725.8	1720.5	1739.3	1764.9	1816.7	1866.4	1904.1	1922.5	1933.2	1939.4	1946.7
15°	1717.6	1713.2	1723.8	1746.1	1789.1	1853.4	1917.7	1951.5	1960.7	1968.0	1970.9
17.5°	1757.2	1749.0	1753.4	1761.1	1786.2	1841.3	1928.3	1984.4	1998.4	2006.1	2006.1
20°	1849.1	1837.4	1830.6	1815.2	1810.9	1843.3	1927.4	2024.1	2042.4	2052.0	2054.5
22.5°	1971.4	1963.6	1949.1	1910.0	1867.4	1866.9	1945.8	2074.8	2109.1	2118.3	2112.5
25°	2119.3	2107.7	2089.3	2036.2	1954.5	1913.8	1976.7	2139.6	2197.1	2199.5	2182.6
27.5°	2289.4	2272.0	2246.9	2176.8	2066.6	1987.3	2024.1	2214.0	2298.2	2297.1	2262.4
30°	2468.8	2451.4	2424.8	2339.7	2201.0	2086.4	2089.8	2294.3	2418.0	2412.7	2353.3
32.5°	2599.8	2586.7	2581.5	2515.7	2355.7	2203.3	2165.2	2383.2	2566.0	2561.1	2477.9
35°	2700.4	2683.4	2689.7	2656.4	2524.4	2334.4	2257.6	2489.1	2745.8	2745.3	2641.8
37.5°	2799.9	2784.9	2790.3	2768.0	2680.5	2500.7	2370.2	2618.7	2968.6	2979.3	2840.1
40°	2890.8	2874.8	2896.1	2875.3	2801.8	2677.6	2498.2	2765.1	3226.8	3247.1	3079.8
42.5°	2945.4	2932.8	2968.2	2968.6	2907.2	2827.0	2639.0	2926.6	3525.5	3571.0	3374.7
45°	2964.3	2959.9	3013.1	3024.3	3000.6	2913.6	2765.6	3102.6	3847.4	3928.7	3710.7
47.5°	2944.0	2935.8	3009.2	3050.3	3069.2	2954.2	2870.5	3293.0	4176.2	4295.2	4077.1
50°	2841.5	2825.5	2934.8	3021.3	3088.5	2980.7	2976.4	3513.0	4549.9	4679.9	4445.4
52.5°	2657.3	2645.2	2769.4	2919.8	3046.0	2993.7	3095.3	3753.2	4904.7	5072.9	4823.0
55°	2421.9	2406.0	2542.7	2739.0	2940.1	2989.4	3214.2	4022.0	5323.3	5494.0	5213.2
57.5°	2048.7	2016.8	2189.8	2421.9	2767.5	2984.1	3337.9	4289.3	5748.7	5953.2	5629.3
60°	1504.4	1457.0	1669.2	1944.3	2430.1	2932.4	3491.2	4589.0	6259.3	6443.4	6083.8
62.5°	876.0	848.4	987.2	1243.8	1831.7	2627.8	3577.2	4937.5	6761.0	6954.3	6530.4
65°	680.2	672.4	684.5	704.4	1019.5	1967.5	3311.9	5277.4	7399.1	7534.5	6995.9
67.5°	622.2	616.3	621.7	584.5	517.2	1095.9	2620.1	5363.4	8082.6	8164.8	7403.5
70°	553.0	546.2	563.6	531.8	407.0	498.4	1692.9	5051.2	8626.5	8780.7	7713.3
72.5°	450.6	442.8	483.4	468.9	342.8	320.0	850.3	4309.1	8569.4	8889.4	7491.4
75°	346.1	341.7	390.1	402.2	279.4	251.8	408.0	3203.1	7541.2	7863.7	6456.5
77.5°	268.8	265.4	290.1	334.0	225.3	195.3	250.9	2031.8	5683.0	5739.6	4449.3
80°	201.6	191.9	214.6	258.6	175.5	142.6	170.1	1184.8	3592.2	3256.2	1936.5
82.5°	126.2	121.4	140.2	172.6	123.7	98.1	110.7	654.6	1439.6	847.9	373.7
85°	72.1	70.1	76.4	98.6	67.2	56.6	63.3	289.0	263.0	180.8	112.6
87.5°	29.0	28.1	34.8	44.0	24.7	20.8	22.2	69.6	58.0	53.6	37.2
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°	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5	1834.5
2.5°	1839.9	1839.9	1833.1	1822.4	1810.4	1802.7	1790.1	1786.7	1773.7	1769.8	1776.0
5°	1862.1	1858.2	1837.4	1807.5	1766.4	1728.7	1687.2	1661.0	1624.2	1611.2	1620.8
7.5°	1890.1	1879.5	1843.8	1778.0	1692.0	1607.3	1519.4	1452.6	1388.9	1366.1	1369.0
10°	1915.7	1900.8	1839.9	1724.8	1575.9	1429.5	1289.2	1191.2	1116.6	1086.2	1093.0
12.5°	1941.4	1913.8	1814.2	1636.3	1411.1	1212.4	1063.0	986.7	940.7	903.9	916.0
15°	1965.5	1926.9	1774.6	1517.9	1230.3	1028.7	918.5	857.6	820.8	796.6	801.0
17.5°	1993.6	1938.0	1715.1	1367.6	1058.2	901.6	811.7	774.9	767.6	764.8	766.7
20°	2032.8	1948.1	1636.8	1199.4	931.5	800.0	753.7	750.3	749.8	748.4	753.2
22.5°	2074.8	1960.2	1533.4	1046.6	823.7	736.8	728.5	721.7	717.4	716.9	722.2
25°	2124.6	1964.1	1403.8	921.4	731.8	706.7	697.1	687.0	684.0	684.0	687.0
27.5°	2172.9	1951.1	1253.0	812.6	680.2	679.2	666.7	663.3	662.8	664.2	668.1
30°	2221.3	1926.4	1103.1	712.1	650.2	650.2	645.9	648.2	650.2	655.0	658.4
32.5°	2286.6	1900.2	978.0	637.7	624.1	619.2	623.6	628.4	630.4	636.6	642.0
35°	2382.2	1881.9	878.3	597.1	597.1	590.7	593.2	592.1	587.8	585.0	591.7
37.5°	2508.9	1881.0	796.2	578.2	574.3	573.3	573.8	567.5	550.6	530.3	530.7
40°	2661.2	1907.0	732.9	565.1	562.2	568.1	565.1	548.2	501.7	466.5	465.6
42.5°	2865.7	1981.5	692.3	549.2	557.9	565.1	553.5	495.0	463.6	439.9	438.9
45°	3106.4	2102.4	671.5	532.3	549.6	558.3	502.2	476.6	451.5	423.0	421.1
47.5°	3379.0	2254.6	666.7	516.3	531.3	536.6	480.5	468.9	440.3	409.5	407.0
50°	3675.9	2435.0	679.7	497.4	504.7	486.4	473.2	462.6	433.2	402.7	399.3
52.5°	3982.8	2633.6	705.8	471.8	478.1	457.8	470.4	461.1	428.8	387.7	384.8
55°	4284.5	2833.7	730.9	441.9	451.0	432.1	462.2	455.4	409.0	362.5	360.2
57.5°	4591.0	3033.0	755.5	415.2	425.0	407.5	449.1	439.9	386.7	339.4	338.4
60°	4909.5	3226.3	767.2	389.6	396.4	384.8	429.3	413.3	361.6	315.7	314.3
62.5°	5207.8	3387.2	748.4	364.0	368.4	363.6	403.1	381.9	336.4	289.0	288.6
65°	5507.0	3483.0	690.3	338.9	339.8	337.4	366.4	348.1	307.0	265.9	263.0
67.5°	5778.2	3536.7	598.0	311.8	309.3	308.4	332.1	311.3	278.5	242.7	239.7
70°	5835.7	3400.3	456.8	279.9	279.9	277.5	294.4	273.2	247.0	218.0	217.1
72.5°	5330.1	2860.4	324.4	243.6	247.5	242.7	256.7	238.8	215.1	195.8	189.9
75°	4298.0	2097.6	236.0	206.4	213.2	205.0	218.0	205.4	185.1	184.7	166.3
77.5°	2953.1	1297.0	171.2	170.1	175.0	164.4	179.4	172.6	154.2	146.0	136.8
80°	1260.2	517.2	124.7	131.5	131.5	121.8	139.2	141.1	125.2	121.4	121.4
82.5°	250.9	147.0	87.5	90.4	85.1	82.2	98.6	109.3	150.8	167.8	168.2
85°	75.4	54.1	52.7	49.3	43.5	44.0	58.0	109.8	135.4	77.4	66.7
87.5°	20.8	13.5	14.0	11.1	9.2	12.1	19.8	83.1	45.4	19.4	16.4
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)