

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: P960276

Luminaire Tested: **NAV-SB1C-727-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-727-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7243.7 lumens
Efficiency: N/A
Efficacy: 133.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

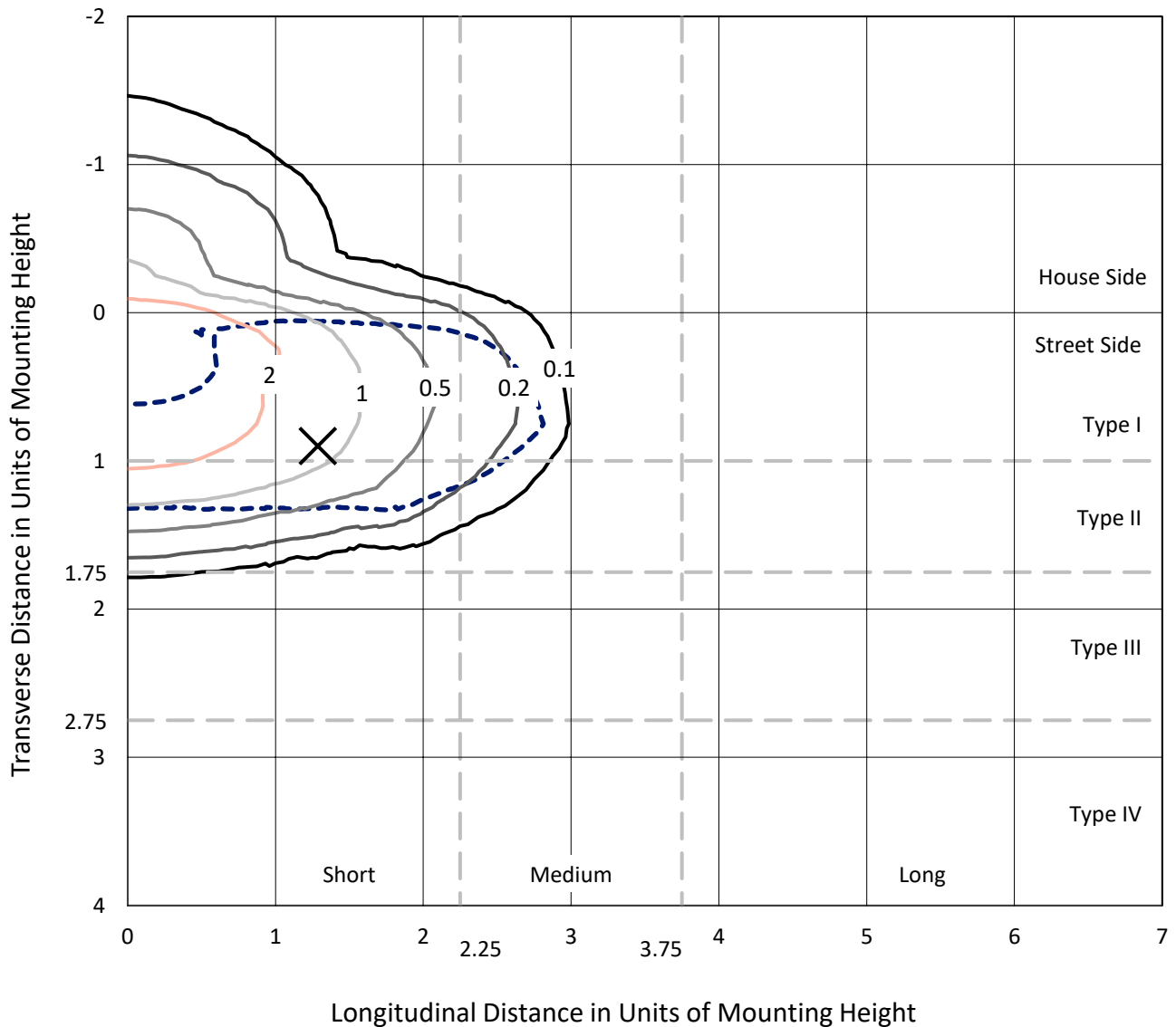
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

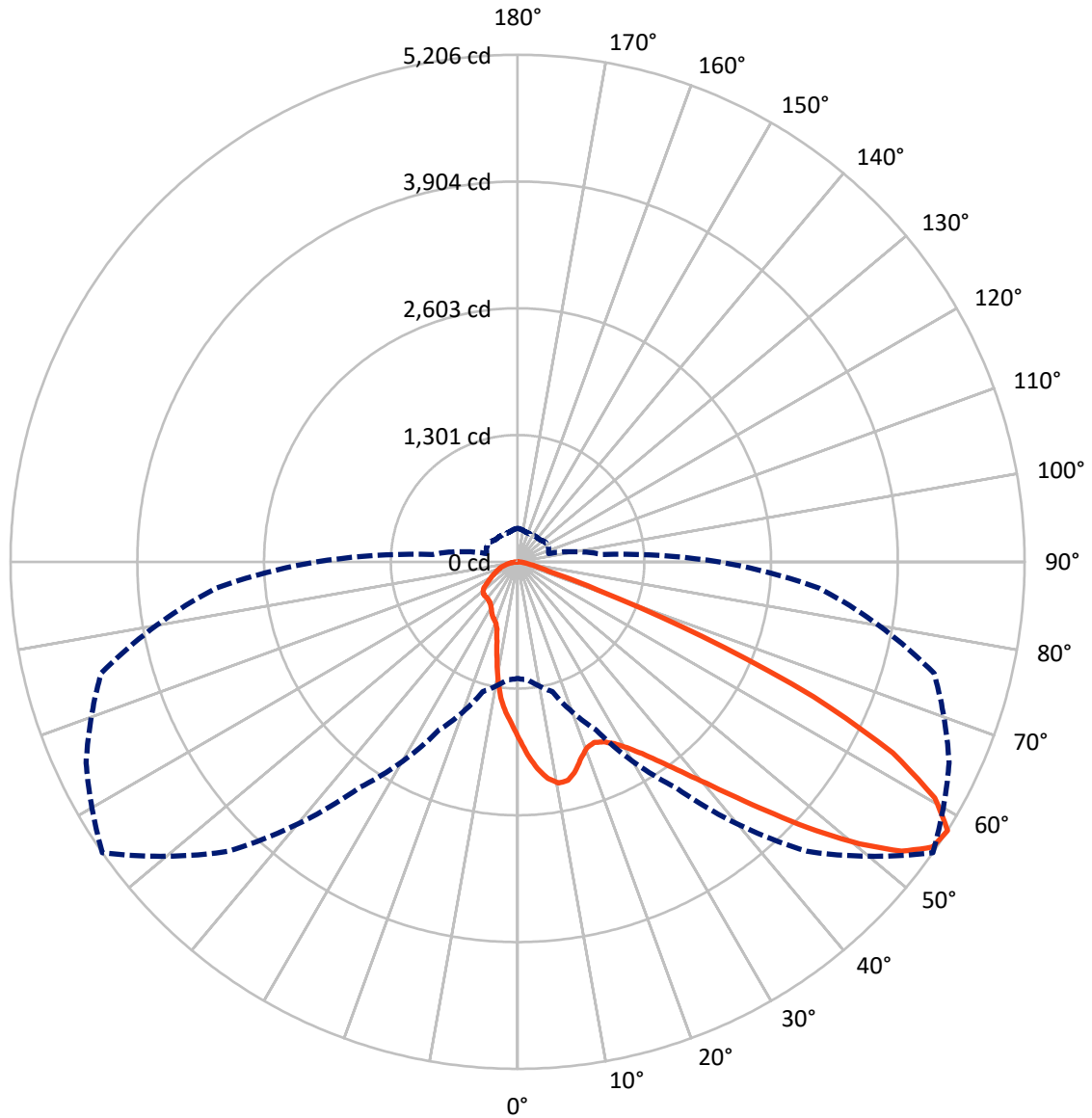
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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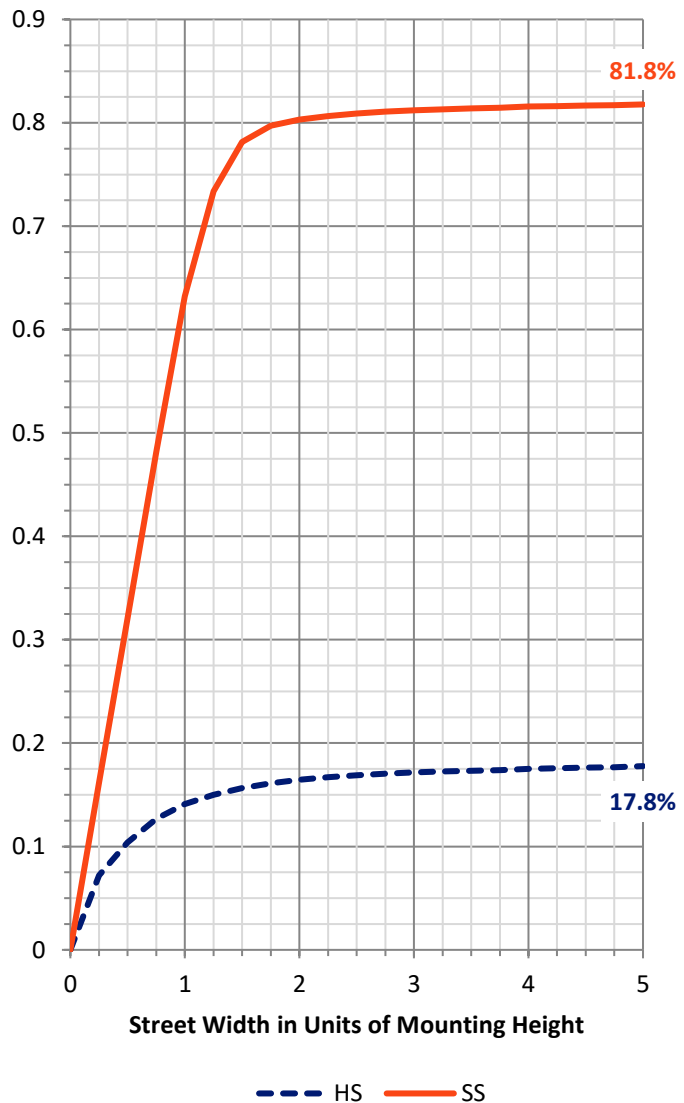
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1310.7	0.0	1310.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5933.0	0.0	5933.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	7243.7	0.0	7243.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.4	2.3
10°-20°	425.1	5.9
20°-30°	678.4	9.4
30°-40°	1074.0	14.8
40°-50°	1643.9	22.7
50°-60°	1760.7	24.3
60°-70°	1107.7	15.3
70°-80°	327.6	4.5
80°-90°	57.9	0.8
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°	7243.7	100.0
0°-180°	7243.7	100.0

Coefficient of Utilization

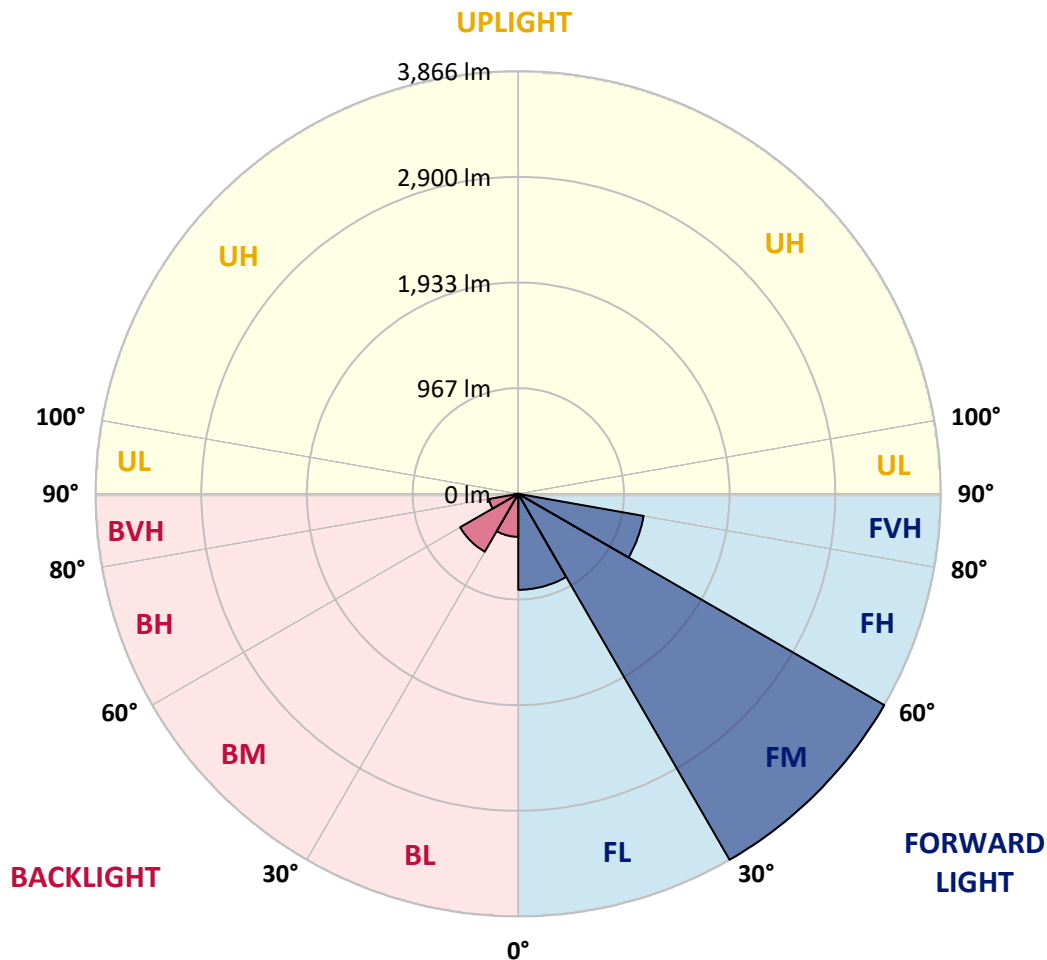


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	877.9	12.1			
FM (30°-60°)	3866.0	53.4			
FH (60°-80°)	1164.6	16.1			G1/1800
FVH (80°-90°)	24.5	0.3			G1/100
BL (0°-30°)	394.0	5.4	B1/500		
BM (30°-60°)	612.6	8.5	B1/1000		
BH (60°-80°)	270.7	3.7	B1/500		G1/500
BVH (80°-90°)	33.4	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1
2.5°	2082.4	2080.9	2089.2	2061.1	2042.0	2016.1	1982.0	1938.6	1891.8	1842.3	1821.0
5°	2270.0	2256.9	2265.6	2244.5	2223.5	2184.6	2134.0	2063.3	1976.8	1878.3	1825.9
7.5°	2240.4	2231.4	2253.6	2272.2	2288.0	2283.1	2246.1	2171.9	2060.4	1917.3	1841.2
10°	2001.9	1991.8	2022.8	2087.6	2182.7	2265.6	2310.5	2264.4	2145.6	1959.9	1856.2
12.5°	1791.4	1786.6	1807.2	1859.6	1965.2	2124.0	2302.3	2345.3	2234.4	2010.5	1876.5
15°	1701.6	1695.6	1708.7	1735.2	1802.7	1950.6	2227.3	2400.7	2321.7	2069.0	1908.7
17.5°	1681.7	1675.0	1680.6	1694.4	1737.9	1850.6	2114.3	2428.0	2412.6	2134.0	1935.6
20°	1718.4	1712.8	1713.6	1712.8	1743.1	1832.6	2035.5	2417.6	2492.1	2194.0	1961.8
22.5°	1807.2	1797.8	1798.2	1778.4	1794.8	1864.1	2014.9	2389.5	2562.8	2246.4	1981.6
25°	1951.7	1934.9	1938.3	1887.6	1883.2	1934.5	2047.2	2367.8	2633.2	2288.3	1985.4
27.5°	2149.4	2130.4	2120.2	2045.0	2009.0	2034.4	2112.7	2375.2	2699.8	2324.7	1976.1
30°	2396.6	2373.4	2352.8	2246.1	2180.9	2171.6	2214.6	2424.6	2778.6	2362.8	1959.9
32.5°	2699.5	2672.6	2635.1	2493.5	2401.8	2352.8	2346.4	2512.7	2870.6	2411.5	1951.7
35°	3060.1	3024.9	2971.8	2788.6	2672.6	2572.2	2520.2	2639.6	2996.8	2484.9	1961.0
37.5°	3431.6	3391.9	3343.2	3125.3	2982.6	2834.7	2732.1	2811.9	3165.0	2584.5	1985.8
40°	3774.3	3729.7	3684.4	3490.4	3337.2	3158.9	2991.6	3029.8	3370.5	2703.6	2027.8
42.5°	3976.5	3943.5	3926.3	3821.4	3703.1	3522.2	3314.3	3288.2	3601.6	2840.7	2075.6
45°	3967.5	3953.9	4007.1	4050.6	4022.5	3922.2	3692.6	3573.9	3833.4	2959.4	2119.8
47.5°	3755.5	3764.5	3883.2	4127.4	4234.8	4287.3	4123.3	3854.4	4034.8	3048.1	2139.7
50°	3178.8	3186.3	3461.2	3987.7	4289.5	4584.9	4550.5	4128.1	4191.0	3102.5	2135.2
52.5°	2722.4	2727.2	2845.2	3573.6	4109.0	4734.7	4935.5	4386.1	4305.2	3117.4	2110.1
55°	2050.6	2067.4	2199.6	2803.6	3639.5	4616.0	5169.9	4652.0	4377.5	3118.9	2083.9
57.5°	1197.9	1216.3	1379.5	1903.0	2828.7	4202.2	5205.5	4887.9	4426.6	3107.0	2068.1
60°	586.8	594.6	665.8	1000.2	1744.2	3405.0	4919.4	5002.1	4453.9	3100.5	2067.4
62.5°	395.4	394.3	397.3	493.5	859.4	2187.7	4323.1	4802.1	4439.3	3076.2	2059.9
65°	340.0	335.9	324.6	346.3	445.3	1000.6	3340.3	4205.3	4328.1	3015.1	2008.6
67.5°	294.0	294.4	294.7	287.9	318.0	461.8	2041.2	3312.5	3928.9	2726.1	1810.9
70°	243.4	246.8	248.3	248.3	259.1	303.0	871.4	2270.4	3099.1	2137.4	1458.6
72.5°	221.7	214.5	215.4	211.6	211.6	230.6	350.9	1287.0	1952.4	1202.4	890.1
75°	180.9	185.3	186.1	183.5	174.9	176.0	208.2	540.0	835.5	498.8	440.0
77.5°	156.1	156.1	157.6	155.8	149.0	131.8	138.9	209.3	284.2	204.5	219.8
80°	125.5	125.0	131.4	135.2	124.7	97.4	88.8	115.7	126.2	89.9	114.2
82.5°	61.0	64.8	90.2	103.0	94.7	70.4	54.3	71.9	67.4	39.7	51.4
85°	35.6	33.7	40.5	57.3	54.3	38.9	26.2	37.4	35.2	20.2	20.6
87.5°	11.3	10.5	8.2	19.5	15.7	10.9	7.1	10.9	9.7	4.5	4.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1	1815.1
2.5°	1794.5	1750.3	1706.4	1666.3	1642.0	1626.3	1610.6	1593.0	1586.2	1576.1
5°	1776.4	1691.0	1615.1	1549.5	1490.0	1443.2	1396.0	1357.8	1340.6	1352.2
7.5°	1766.0	1642.4	1525.2	1405.0	1289.2	1196.8	1116.3	1059.7	1034.2	1040.7
10°	1756.6	1587.3	1408.8	1218.9	1052.6	938.1	855.7	812.6	796.5	799.8
12.5°	1748.0	1525.6	1268.3	1018.5	841.8	766.2	742.6	742.9	745.9	748.1
15°	1746.5	1451.1	1111.4	843.3	728.0	723.1	748.6	764.6	773.3	775.9
17.5°	1744.2	1361.9	951.5	723.9	700.3	733.2	756.8	767.3	774.0	774.4
20°	1735.2	1248.9	804.0	667.0	694.2	722.7	737.3	745.6	751.2	753.1
22.5°	1707.5	1123.0	689.0	641.4	670.2	693.1	710.3	719.8	723.1	725.3
25°	1657.7	982.3	609.7	617.2	636.9	665.8	679.7	681.5	680.4	683.8
27.5°	1592.6	831.3	560.2	584.1	609.7	634.4	641.9	640.7	638.5	642.2
30°	1513.9	695.8	528.7	547.0	581.9	604.3	611.1	608.5	604.0	608.1
32.5°	1430.8	584.9	502.9	521.2	559.0	581.2	587.9	585.3	581.9	585.3
35°	1353.3	507.4	479.0	504.0	541.1	562.8	571.4	571.8	571.8	575.9
37.5°	1282.2	462.1	459.1	493.1	528.7	548.2	560.6	561.3	545.2	546.3
40°	1216.3	443.0	450.1	486.1	516.8	535.5	536.3	494.3	464.7	463.9
42.5°	1162.4	439.2	452.7	485.3	508.2	508.9	456.1	423.5	415.3	415.6
45°	1111.8	438.1	458.7	485.3	495.4	439.6	404.1	395.4	396.2	399.1
47.5°	1055.2	433.7	459.8	478.6	458.7	390.9	380.5	376.7	375.3	376.0
50°	993.4	417.5	445.6	465.0	395.9	369.9	356.9	355.8	357.6	358.7
52.5°	928.3	391.3	421.3	440.7	367.0	351.6	337.0	339.7	347.9	350.5
55°	885.6	360.6	389.1	392.1	346.8	334.4	322.1	328.0	343.4	348.3
57.5°	874.3	328.0	352.4	349.0	320.9	319.4	311.9	317.1	336.6	343.8
60°	871.0	298.8	316.4	313.8	295.8	303.0	301.0	303.7	310.5	312.7
62.5°	844.8	275.6	284.2	280.4	273.4	285.7	290.2	284.6	289.9	292.4
65°	778.2	256.9	252.8	250.1	253.2	264.3	273.4	262.1	267.0	274.5
67.5°	668.1	231.4	220.2	223.1	232.6	238.5	250.1	237.4	241.5	254.3
70°	540.4	199.3	189.1	197.7	206.7	219.0	220.9	212.3	222.0	236.3
72.5°	382.3	166.7	159.5	177.1	180.1	196.2	192.1	188.0	201.4	206.3
75°	265.2	134.5	130.3	143.8	154.7	168.5	165.5	170.4	198.8	201.1
77.5°	167.8	104.4	101.9	110.5	125.5	140.8	145.7	201.1	339.7	353.1
80°	97.4	77.9	74.9	81.6	94.7	109.0	140.4	246.8	224.0	221.3
82.5°	54.3	53.5	49.8	51.7	63.2	78.6	198.4	173.7	141.1	145.7
85°	25.4	31.5	27.0	25.8	35.6	92.1	132.5	99.2	65.9	64.4
87.5°	6.8	5.9	5.9	6.8	15.0	79.4	52.8	42.3	25.1	24.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)