

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: P960245

Luminaire Tested: **NAV-SB1C-722-U-AFL**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960245
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-722-U-AFL
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6451.3 lumens
Efficiency: N/A
Efficacy: 118.6 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

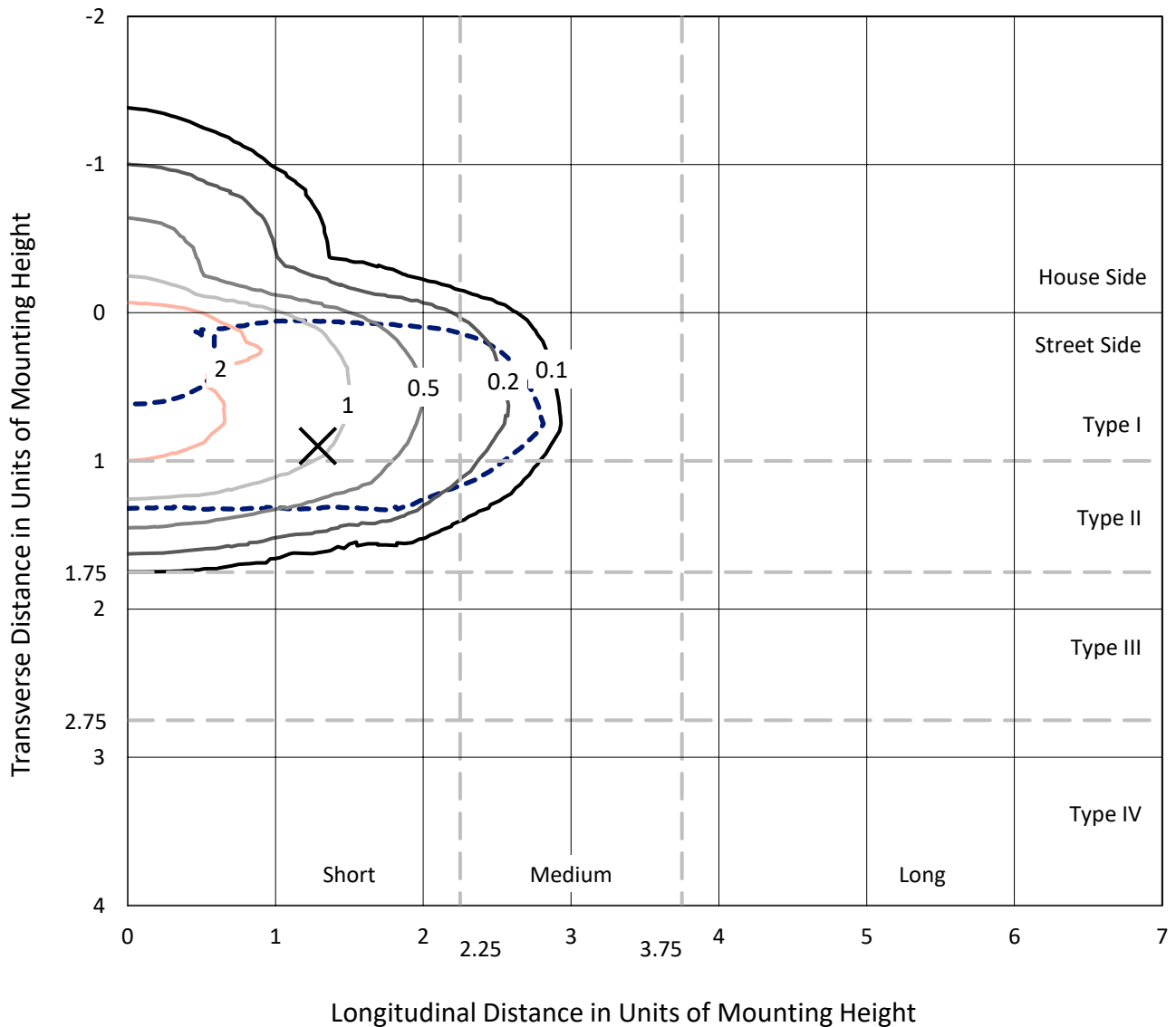
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

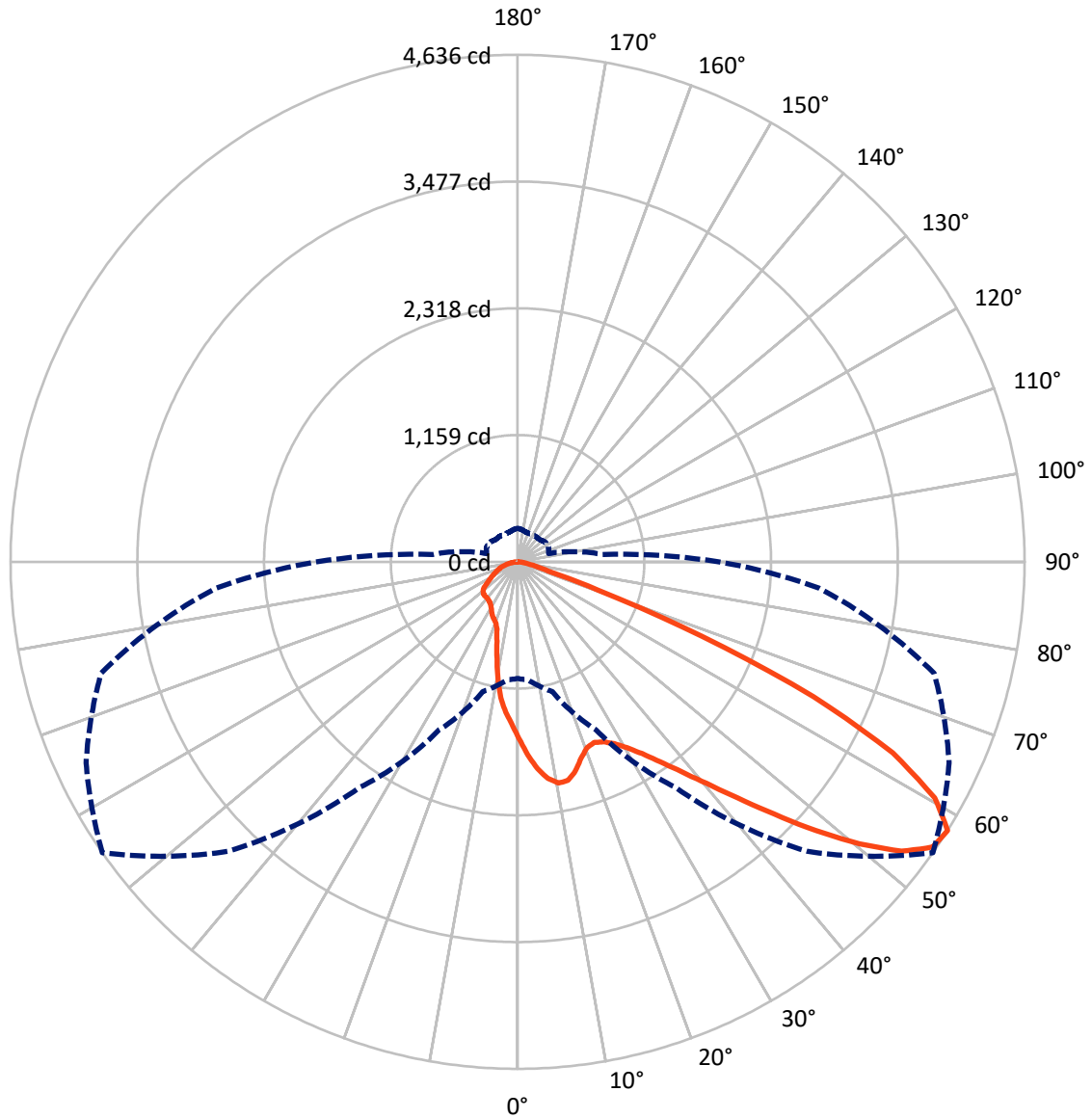
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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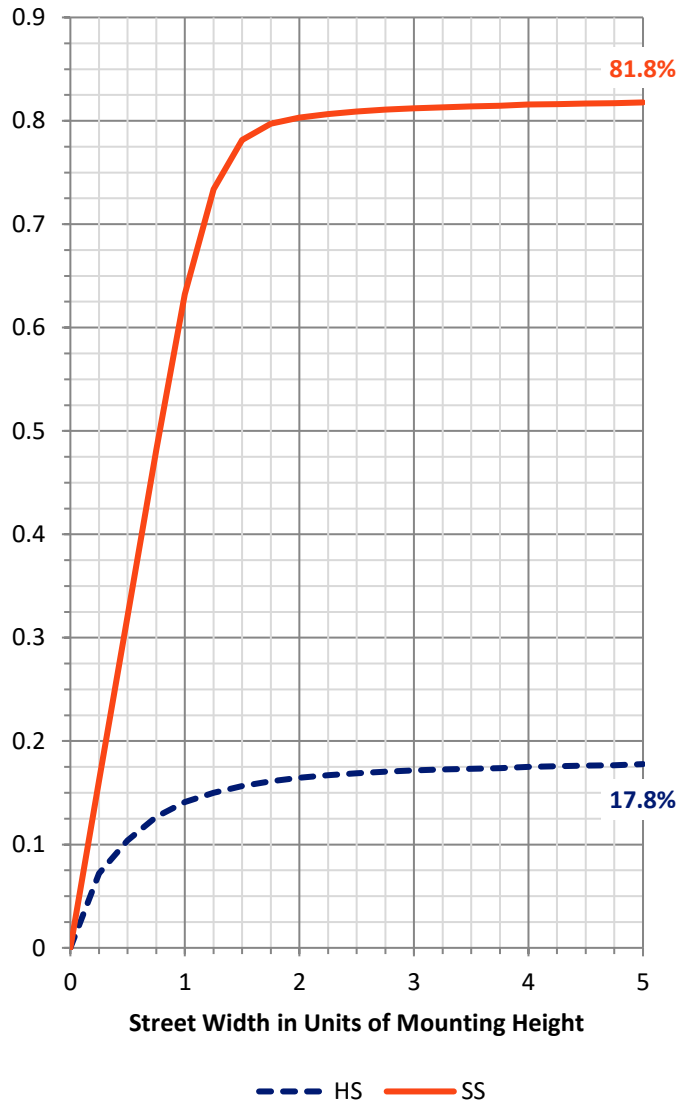
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1167.3	0.0	1167.3
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	5284.0	0.0	5284.0
	% Fixture	81.9	0.0	81.9
Total	Lumens	6451.3	0.0	6451.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	150.0	2.3
10°-20°	378.6	5.9
20°-30°	604.2	9.4
30°-40°	956.5	14.8
40°-50°	1464.1	22.7
50°-60°	1568.2	24.3
60°-70°	986.5	15.3
70°-80°	291.7	4.5
80°-90°	51.6	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°	6451.3	100.0
0°-180°	6451.3	100.0

Coefficient of Utilization



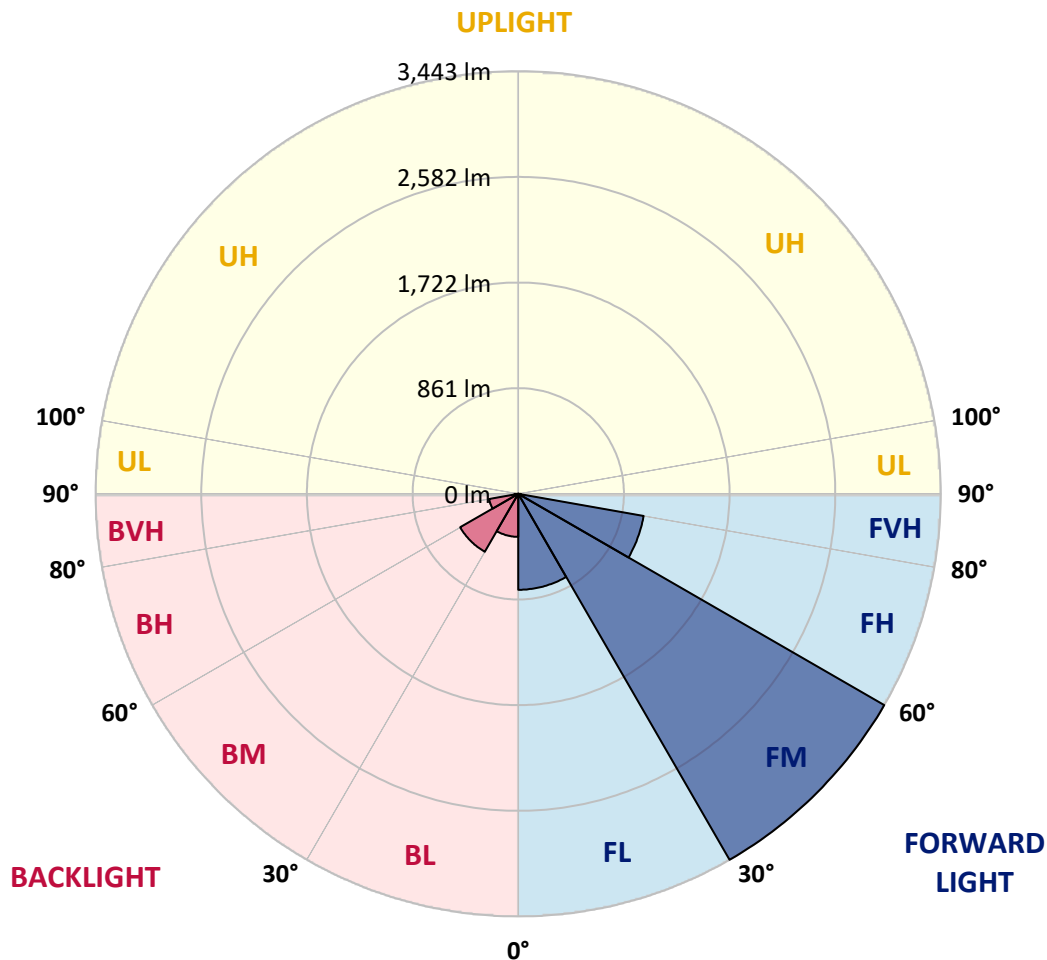
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	781.9	12.1			
FM (30°-60°)	3443.1	53.4			
FH (60°-80°)	1037.2	16.1			G1/1800
FVH (80°-90°)	21.8	0.3			G1/100
BL (0°-30°)	350.9	5.4	B1/500		
BM (30°-60°)	545.6	8.5	B1/1000		
BH (60°-80°)	241.1	3.7	B1/500		G1/500
BVH (80°-90°)	29.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1854.6	1853.3	1860.6	1835.6	1818.6	1795.6	1765.3	1726.5	1684.9	1640.8	1621.9
5°	2021.7	2010.0	2017.7	1999.1	1980.4	1945.7	1900.7	1837.6	1760.5	1672.9	1626.2
7.5°	1995.4	1987.4	2007.1	2023.7	2037.7	2033.4	2000.4	1934.4	1835.0	1707.5	1639.8
10°	1782.9	1773.9	1801.6	1859.2	1944.0	2017.7	2057.7	2016.7	1911.0	1745.6	1653.2
12.5°	1595.5	1591.1	1609.5	1656.2	1750.2	1891.6	2050.4	2088.7	1990.0	1790.6	1671.2
15°	1515.5	1510.1	1521.8	1545.5	1605.5	1737.3	1983.7	2138.1	2067.7	1842.6	1699.9
17.5°	1497.7	1491.8	1496.8	1509.1	1547.7	1648.2	1882.9	2162.4	2148.8	1900.7	1723.8
20°	1530.4	1525.4	1526.1	1525.4	1552.5	1632.2	1812.9	2153.1	2219.4	1954.0	1747.2
22.5°	1609.5	1601.2	1601.5	1583.8	1598.5	1660.2	1794.6	2128.1	2282.5	2000.7	1764.9
25°	1738.2	1723.2	1726.2	1681.2	1677.2	1722.9	1823.3	2108.7	2345.2	2038.0	1768.2
27.5°	1914.3	1897.3	1888.3	1821.2	1789.2	1811.9	1881.6	2115.4	2404.5	2070.4	1759.9
30°	2134.5	2113.8	2095.4	2000.4	1942.4	1934.0	1972.3	2159.5	2474.7	2104.4	1745.6
32.5°	2404.2	2380.3	2346.8	2220.8	2139.1	2095.4	2089.8	2237.8	2556.7	2147.8	1738.2
35°	2725.4	2694.0	2646.7	2483.6	2380.3	2290.9	2244.4	2350.8	2669.0	2213.2	1746.6
37.5°	3056.2	3020.9	2977.5	2783.4	2656.4	2524.7	2433.2	2504.3	2818.7	2301.8	1768.5
40°	3361.4	3321.7	3281.3	3108.6	2972.2	2813.4	2664.4	2698.4	3001.9	2407.9	1805.9
42.5°	3541.5	3512.2	3496.8	3403.4	3298.0	3136.9	2951.9	2928.5	3207.6	2530.0	1848.6
45°	3533.5	3521.5	3568.8	3607.5	3582.5	3493.1	3288.7	3182.9	3414.1	2635.7	1887.9
47.5°	3344.7	3352.8	3458.5	3675.9	3771.6	3818.3	3672.3	3432.7	3593.5	2714.7	1905.7
50°	2831.2	2837.8	3082.6	3551.5	3820.3	4083.4	4052.7	3676.6	3732.5	2763.1	1901.7
52.5°	2424.5	2428.9	2534.0	3182.6	3659.6	4216.8	4395.6	3906.4	3834.3	2776.4	1879.3
55°	1826.2	1841.3	1959.0	2497.0	3241.4	4111.1	4604.4	4143.2	3898.7	2777.7	1856.0
57.5°	1066.9	1083.2	1228.7	1694.8	2519.3	3742.6	4636.1	4353.3	3942.4	2767.1	1841.9
60°	522.6	529.6	593.0	890.8	1553.5	3032.6	4381.3	4455.0	3966.7	2761.5	1841.3
62.5°	352.2	351.2	353.8	439.5	765.4	1948.3	3850.3	4276.9	3953.7	2739.7	1834.6
65°	302.8	299.2	289.2	308.5	396.6	891.1	2974.9	3745.2	3854.6	2685.4	1788.9
67.5°	261.8	262.1	262.5	256.5	283.1	411.2	1817.9	2950.2	3499.1	2427.9	1612.8
70°	216.8	219.8	221.1	221.1	230.8	269.8	776.0	2022.0	2760.1	1903.6	1299.0
72.5°	197.4	191.1	191.8	188.4	188.4	205.4	312.5	1146.3	1738.9	1070.9	792.7
75°	161.1	165.1	165.7	163.4	155.7	156.7	185.4	480.9	744.0	444.2	391.9
77.5°	139.1	139.1	140.4	138.8	132.7	117.4	123.7	186.4	253.2	182.1	195.8
80°	111.7	111.4	117.1	120.4	111.0	86.7	79.0	103.0	112.3	80.1	101.7
82.5°	54.3	57.7	80.4	91.7	84.4	62.7	48.4	64.1	60.1	35.4	45.7
85°	31.7	30.0	36.0	51.0	48.4	34.6	23.4	33.3	31.4	18.0	18.3
87.5°	10.0	9.3	7.4	17.3	14.0	9.6	6.4	9.6	8.7	4.0	4.0
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1598.2	1558.8	1519.8	1484.1	1462.5	1448.4	1434.4	1418.7	1412.8	1403.7
5°	1582.2	1506.1	1438.4	1380.1	1327.1	1285.4	1243.3	1209.3	1193.9	1204.3
7.5°	1572.8	1462.8	1358.3	1251.3	1148.3	1065.9	994.1	943.8	921.2	926.8
10°	1564.5	1413.7	1254.6	1085.6	937.5	835.5	762.1	723.8	709.4	712.4
12.5°	1556.8	1358.7	1129.6	907.1	749.7	682.3	661.3	661.6	664.3	666.4
15°	1555.4	1292.3	989.8	751.0	648.3	644.0	666.7	681.0	688.7	691.1
17.5°	1553.5	1213.0	847.5	644.6	623.6	653.0	674.0	683.4	689.3	689.7
20°	1545.5	1112.2	716.1	594.0	618.3	643.7	656.7	664.0	669.0	670.7
22.5°	1520.8	1000.2	613.7	571.3	597.0	617.4	632.6	641.0	644.0	646.0
25°	1476.4	874.7	542.9	549.6	567.3	593.0	605.3	607.0	606.0	609.0
27.5°	1418.4	740.4	499.0	520.3	542.9	565.0	571.6	570.6	568.7	571.9
30°	1348.4	619.6	470.9	487.3	518.2	538.2	544.3	541.9	537.9	541.6
32.5°	1274.3	520.9	447.9	464.2	497.9	517.6	523.6	521.3	518.2	521.3
35°	1205.3	451.9	426.5	448.8	482.0	501.2	508.9	509.2	509.2	512.9
37.5°	1142.0	411.5	408.9	439.2	470.9	488.2	499.3	499.9	485.5	486.6
40°	1083.2	394.5	400.9	432.9	460.2	476.9	477.5	440.2	413.9	413.2
42.5°	1035.2	391.2	403.2	432.2	452.5	453.3	406.2	377.2	369.8	370.2
45°	990.1	390.2	408.6	432.2	441.3	391.5	359.9	352.2	352.8	355.5
47.5°	939.8	386.2	409.6	426.2	408.6	348.2	338.9	335.5	334.2	334.9
50°	884.8	371.9	396.9	414.2	352.5	329.5	317.9	316.8	318.5	319.5
52.5°	826.8	348.5	375.2	392.6	326.9	313.1	300.1	302.5	309.9	312.1
55°	788.7	321.1	346.6	349.2	308.8	297.9	286.8	292.1	305.9	310.2
57.5°	778.7	292.1	313.9	310.8	285.8	284.4	277.8	282.5	299.8	306.2
60°	775.7	266.1	281.8	279.5	263.4	269.8	268.1	270.5	276.4	278.5
62.5°	752.3	245.5	253.2	249.8	243.4	254.5	258.5	253.5	258.1	260.5
65°	693.0	228.8	225.1	222.7	225.5	235.4	243.4	233.5	237.8	244.5
67.5°	595.0	206.1	196.1	198.7	207.2	212.5	222.7	211.5	215.1	226.4
70°	481.2	177.4	168.4	176.1	184.1	195.1	196.8	189.1	197.7	210.4
72.5°	340.5	148.4	142.1	157.7	160.4	174.8	171.1	167.4	179.4	183.8
75°	236.2	119.7	116.0	128.0	137.8	150.1	147.4	151.7	177.1	179.1
77.5°	149.4	93.1	90.7	98.4	111.7	125.4	129.8	179.1	302.5	314.5
80°	86.7	69.4	66.7	72.7	84.4	97.1	125.0	219.8	199.5	197.1
82.5°	48.4	47.7	44.4	46.0	56.4	70.0	176.7	154.8	125.8	129.8
85°	22.7	28.0	24.0	23.1	31.7	82.0	118.1	88.4	58.7	57.4
87.5°	6.0	5.3	5.3	6.0	13.3	70.7	47.0	37.7	22.3	21.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)