

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: P965662

Luminaire Tested: **NAV-SB4A-740-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P965662
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB4A-740-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 4000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

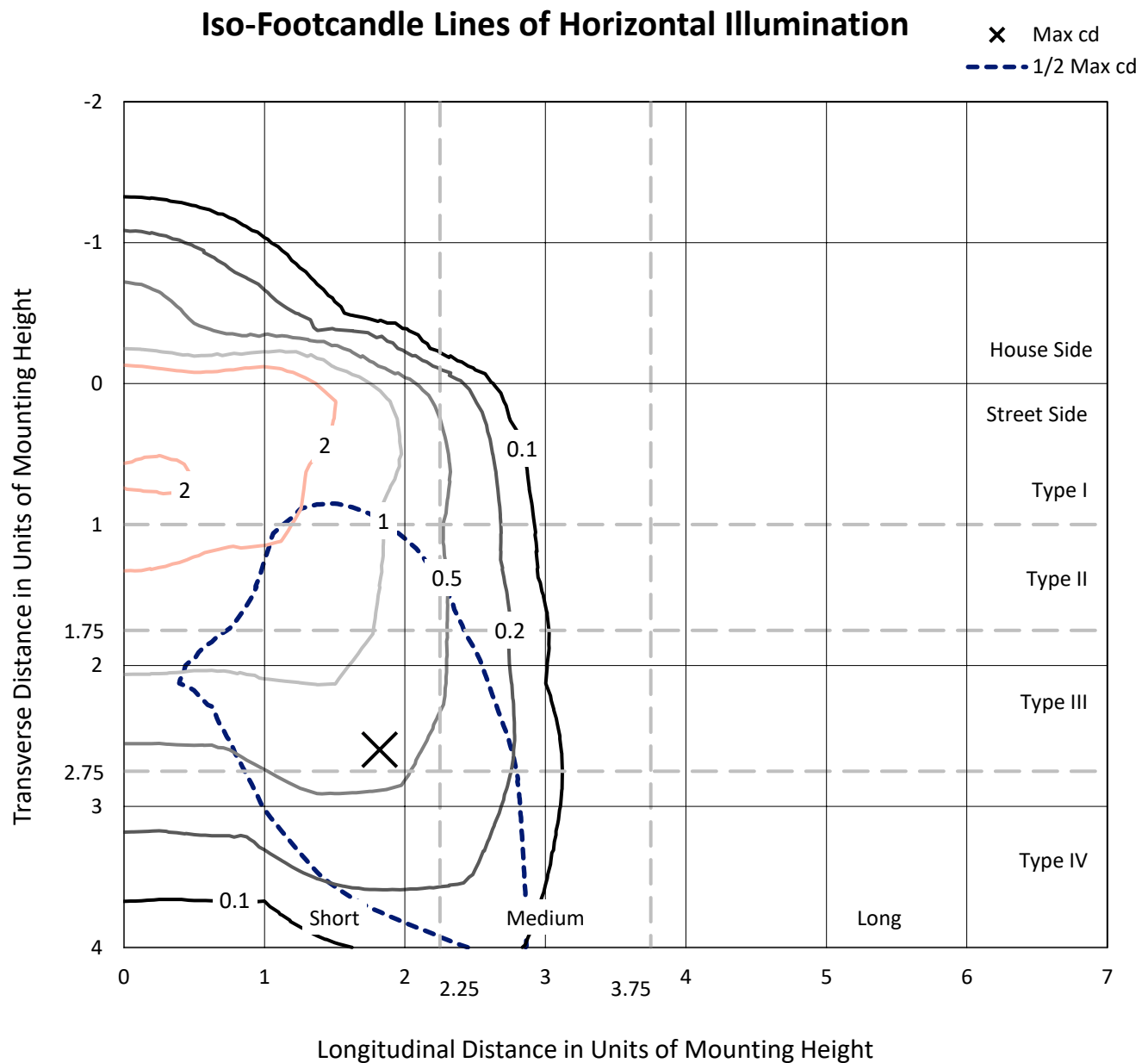
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14761 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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



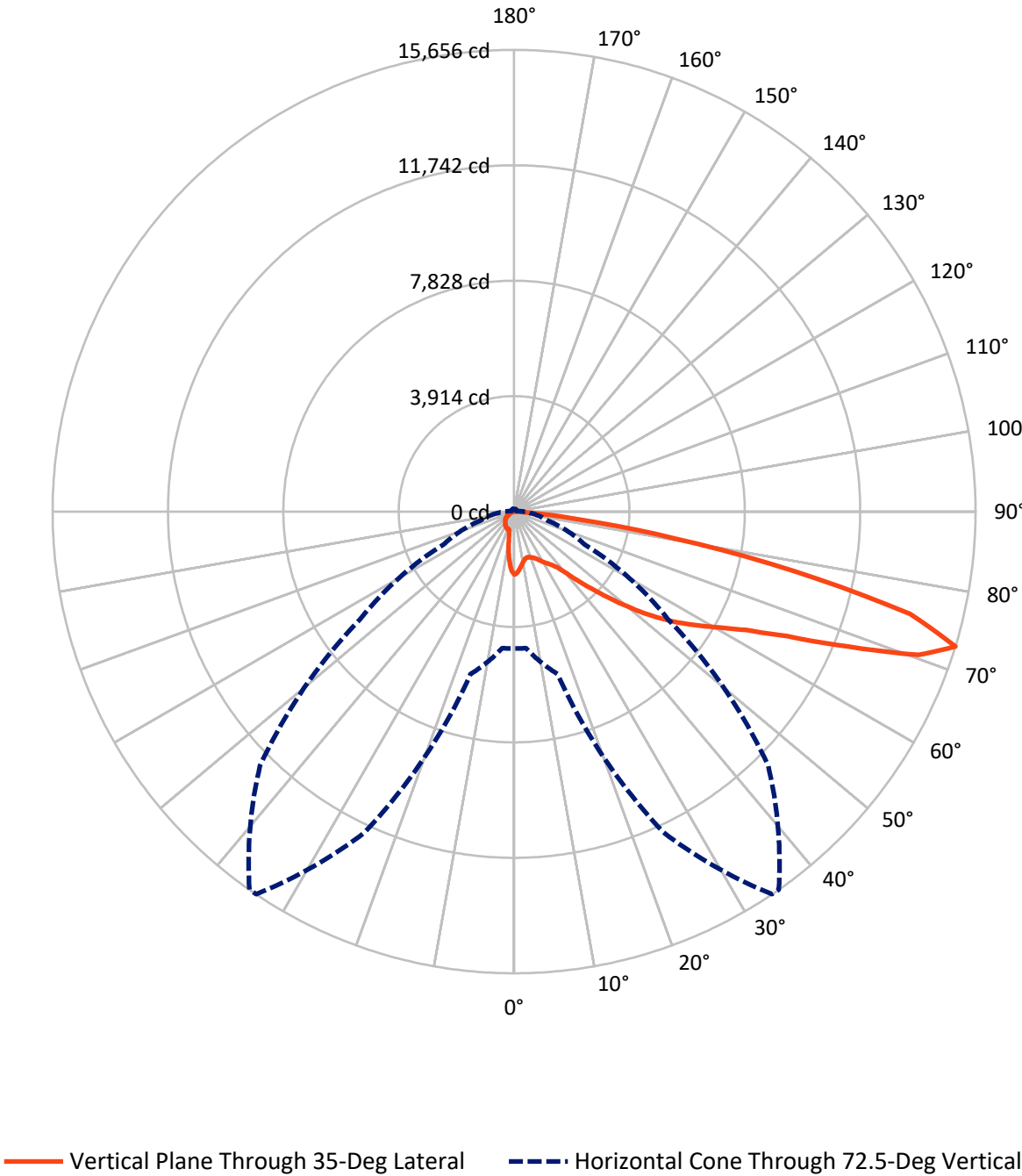
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Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1661.3	0.0	1661.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	13099.7	0.0	13099.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	14761.0	0.0	14761.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	175.8	1.2
10°-20°	411.3	2.8
20°-30°	668.1	4.5
30°-40°	1114.7	7.6
40°-50°	2109.0	14.3
50°-60°	3351.2	22.7
60°-70°	4145.7	28.1
70°-80°	2577.0	17.5
80°-90°	208.3	1.4
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°	14761.0	100.0
0°-180°	14761.0	100.0

Coefficient of Utilization



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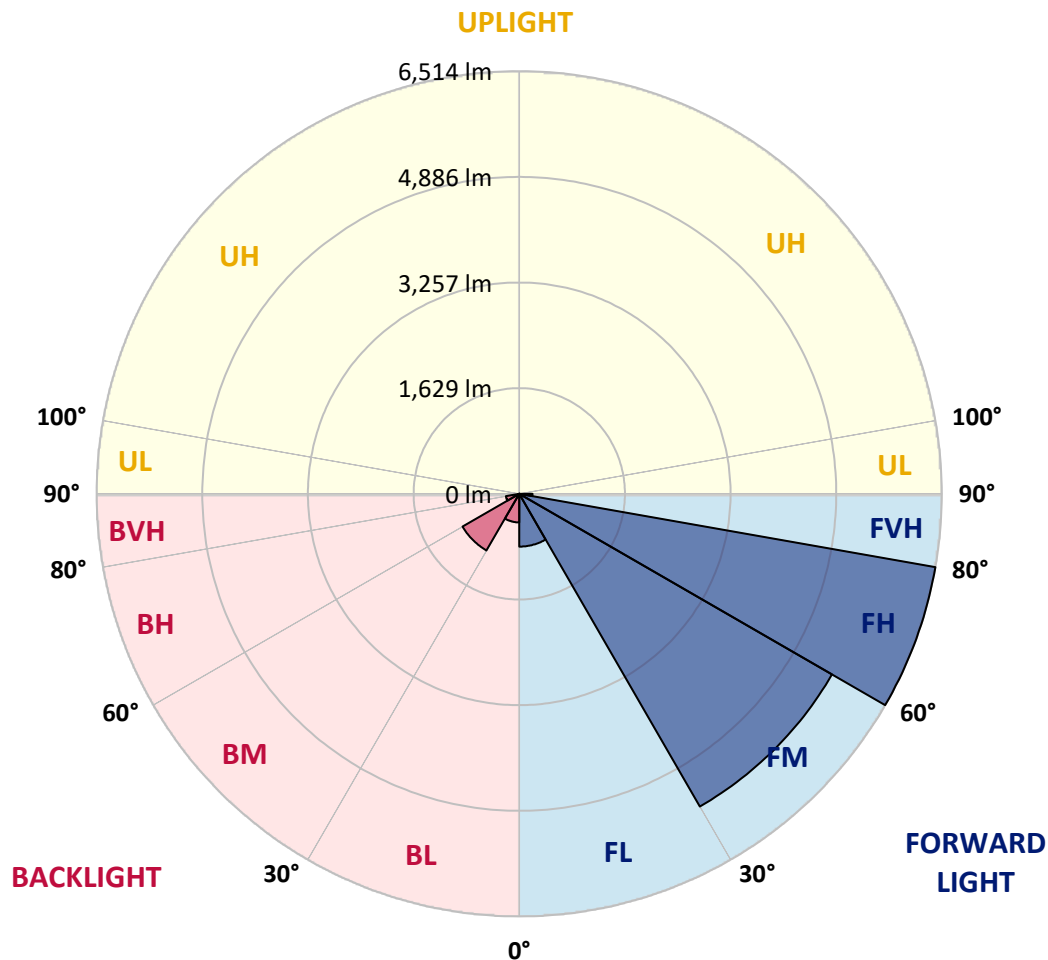
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	813.7	5.5			
FM	(30°-60°)	5566.4	37.7			
FH	(60°-80°)	6514.2	44.1			G3/7500
FVH	(80°-90°)	205.4	1.4			G2/225
BL	(0°-30°)	441.4	3.0	B1/500		
BM	(30°-60°)	1008.6	6.8	B2/2500		
BH	(60°-80°)	208.5	1.4	B1/500		G1/500
BVH	(80°-90°)	2.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4
2.5°	2044.2	2061.5	2064.8	2070.2	2070.2	2076.6	2087.4	2102.6	2127.5	2140.4	2149.1
5°	1884.2	1897.1	1913.4	1926.3	1951.2	1954.4	1996.6	2037.7	2095.0	2138.3	2168.6
7.5°	1722.9	1738.1	1759.7	1791.1	1823.6	1833.3	1897.1	1966.4	2057.2	2138.3	2189.1
10°	1609.4	1610.5	1630.0	1661.3	1713.2	1725.1	1803.0	1901.4	2014.9	2125.3	2208.6
12.5°	1545.6	1553.2	1561.8	1585.6	1635.4	1643.0	1726.2	1841.9	1972.8	2117.8	2231.3
15°	1545.6	1551.0	1556.4	1568.2	1608.3	1614.8	1688.4	1804.1	1951.2	2120.9	2268.1
17.5°	1561.8	1570.5	1566.1	1580.1	1622.4	1626.7	1691.6	1793.2	1950.1	2141.5	2324.3
20°	1600.7	1607.2	1598.6	1607.2	1649.4	1658.0	1725.1	1813.8	1968.5	2177.2	2394.6
22.5°	1662.3	1665.6	1645.1	1651.6	1694.8	1705.7	1783.5	1872.3	2012.8	2234.5	2488.7
25°	1740.2	1746.7	1715.3	1722.9	1764.0	1777.0	1866.8	1959.8	2083.1	2313.5	2608.7
27.5°	1830.0	1833.3	1806.3	1805.1	1858.1	1876.6	1967.4	2067.9	2177.2	2413.1	2760.2
30°	1932.7	1942.5	1916.5	1912.2	1979.3	1994.4	2084.2	2201.0	2315.7	2562.3	2975.5
32.5°	2013.9	2021.5	2006.3	2017.2	2085.3	2097.1	2225.9	2389.2	2533.1	2774.3	3268.5
35°	2130.7	2135.1	2100.4	2119.9	2197.8	2228.0	2419.5	2653.1	2806.7	3040.4	3651.5
37.5°	2553.6	2553.6	2406.5	2310.2	2384.9	2411.9	2684.5	2985.2	3144.2	3397.3	4133.8
40°	3138.8	3129.0	2913.8	2717.0	2707.2	2760.2	3062.0	3403.7	3580.0	3825.5	4676.8
42.5°	3762.8	3747.7	3454.6	3259.9	3227.4	3245.9	3497.8	3919.6	4099.2	4347.9	5260.8
45°	4316.6	4312.3	4044.0	3782.2	3723.9	3782.2	4041.9	4523.2	4651.9	4913.6	5843.8
47.5°	4780.6	4780.6	4584.8	4414.0	4383.6	4418.3	4778.4	5192.6	5180.8	5516.0	6411.6
50°	5314.9	5310.5	5124.5	5051.0	5082.4	5131.0	5626.4	5897.8	5728.0	6107.7	6918.9
52.5°	5689.2	5715.1	5651.2	5639.3	5799.4	5883.8	6487.3	6587.9	6218.1	6669.1	7298.5
55°	5985.5	6015.7	6089.3	6172.5	6480.9	6591.2	7321.3	7242.2	6628.0	7155.7	7516.9
57.5°	6405.1	6361.9	6475.4	6639.8	7138.4	7271.5	8129.2	7859.8	6957.8	7550.6	7540.8
60°	6914.5	6921.0	6940.5	7148.1	7794.9	7965.9	8925.2	8443.9	7169.8	7792.8	7276.9
62.5°	7526.7	7536.4	7576.5	7895.6	8676.4	8837.6	9773.2	8922.0	7267.1	7724.6	6595.5
65°	7484.6	7525.7	7972.3	9063.7	10016.5	10175.5	10762.8	9257.3	7120.1	7101.7	5370.1
67.5°	6818.3	6885.3	7632.8	10458.9	12036.9	12214.3	11959.1	9323.2	6485.2	5522.6	3503.2
70°	5944.4	5968.2	6867.0	11713.5	14376.3	14555.9	13029.8	8597.5	4921.2	3080.3	1569.4
72.5°	4642.1	4647.6	5702.1	12004.5	15646.1	15655.8	12189.4	6382.4	2646.7	1183.3	545.1
75°	3316.1	3283.7	3819.0	9735.3	13765.2	13875.6	9138.3	2993.8	1011.3	559.1	271.5
77.5°	1778.2	1813.8	2161.0	5773.5	9509.2	9697.4	4986.1	863.2	514.9	380.7	179.6
80°	549.4	579.7	885.8	2643.4	5386.3	5499.8	1848.4	384.0	359.1	271.5	117.9
82.5°	173.0	179.6	413.2	1110.8	2235.6	2287.6	535.4	217.4	245.5	179.6	69.2
85°	49.7	50.8	183.9	414.2	552.7	563.5	150.4	84.4	140.6	111.4	35.7
87.5°	5.4	17.3	69.2	69.2	48.7	47.6	16.2	18.3	40.0	14.0	6.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4	2139.4
2.5°	2143.7	2144.8	2130.7	2106.9	2081.0	2059.3	2032.3	2010.6	1995.5	1991.2	1998.7
5°	2158.9	2151.3	2111.3	2038.8	1952.2	1877.6	1794.4	1728.4	1685.1	1666.8	1673.2
7.5°	2181.5	2159.9	2072.3	1929.6	1764.0	1616.9	1467.7	1352.0	1278.4	1241.7	1247.0
10°	2201.0	2157.7	2007.5	1771.6	1518.5	1295.7	1094.6	955.0	877.2	840.4	841.4
12.5°	2219.4	2156.7	1923.0	1584.5	1241.7	969.1	782.0	712.8	691.2	683.6	681.4
15°	2254.0	2159.9	1817.0	1370.3	965.9	732.3	664.1	663.0	667.4	665.1	664.1
17.5°	2301.6	2163.2	1697.0	1143.2	745.2	645.8	642.5	652.2	658.7	655.5	654.4
20°	2363.2	2176.2	1569.4	918.3	640.3	624.1	631.6	640.3	645.8	640.3	639.2
22.5°	2449.8	2198.8	1429.9	737.6	606.8	611.1	617.6	627.3	632.7	625.1	624.1
25°	2555.7	2234.5	1292.5	641.3	590.5	595.9	605.7	616.5	623.0	615.4	614.4
27.5°	2693.2	2291.9	1165.9	619.7	574.3	577.6	591.6	607.8	616.5	606.8	606.8
30°	2892.1	2386.0	1056.7	629.5	564.6	557.0	576.5	599.2	609.0	600.2	599.2
32.5°	3156.1	2519.0	989.6	644.6	560.3	533.2	551.7	580.8	597.1	591.6	591.6
35°	3502.1	2721.3	963.7	661.9	557.0	508.3	521.3	552.7	580.8	586.2	586.2
37.5°	3921.9	3002.4	971.3	669.5	547.2	487.8	494.3	521.3	558.1	575.4	579.7
40°	4398.8	3330.2	1014.5	661.9	536.5	470.5	471.6	492.1	524.6	550.5	559.1
42.5°	4890.9	3713.1	1094.6	633.8	526.7	455.3	452.1	466.2	487.8	506.1	513.7
45°	5359.2	4106.8	1173.5	594.9	514.9	440.2	432.7	438.1	442.4	450.0	454.3
47.5°	5768.1	4383.6	1150.8	559.1	498.6	422.9	409.9	407.7	394.7	393.7	392.6
50°	6050.4	4444.2	1022.1	523.5	474.8	403.4	382.8	369.9	347.2	336.4	337.4
52.5°	6140.2	4205.2	835.0	487.8	435.8	377.5	348.3	327.7	299.6	289.9	288.7
55°	6021.2	3736.8	667.4	444.5	381.8	342.9	310.4	283.4	260.7	248.8	248.8
57.5°	5730.3	3140.9	527.8	393.7	324.5	303.9	271.5	244.5	225.0	213.1	210.9
60°	5247.8	2494.1	417.5	333.1	276.9	261.8	228.2	210.9	193.6	179.6	176.3
62.5°	4515.6	1780.3	327.7	263.9	231.4	214.1	194.6	181.7	161.1	141.7	138.5
65°	3523.7	1089.2	253.1	193.6	186.0	177.4	165.4	153.5	128.7	109.3	106.0
67.5°	2222.6	515.9	180.6	146.1	147.1	142.8	137.4	127.6	109.3	91.9	89.8
70°	978.9	249.9	119.0	111.4	109.3	109.3	113.6	110.3	93.0	76.8	73.6
72.5°	333.1	134.1	88.7	84.4	78.9	77.9	95.2	91.9	74.6	59.4	56.3
75°	174.1	89.8	64.9	60.6	47.6	57.3	75.7	71.3	53.0	38.9	35.7
77.5°	113.6	63.9	44.4	38.9	27.1	37.8	56.3	49.7	31.4	19.5	17.3
80°	71.3	42.2	25.9	18.3	13.0	20.5	30.2	21.6	11.9	4.3	3.3
82.5°	37.8	21.6	9.7	6.5	5.4	6.5	7.6	5.4	2.2	0.0	0.0
85°	15.2	7.6	3.3	2.2	1.1	0.0	2.2	1.1	0.0	0.0	0.0
87.5°	5.4	1.1	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)