

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: P959950

Luminaire Tested: **NAV-SB1B-827-U-T2R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P959950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1B-827-U-T2R
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 450mA LIGHTSQUARE WITH 26 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

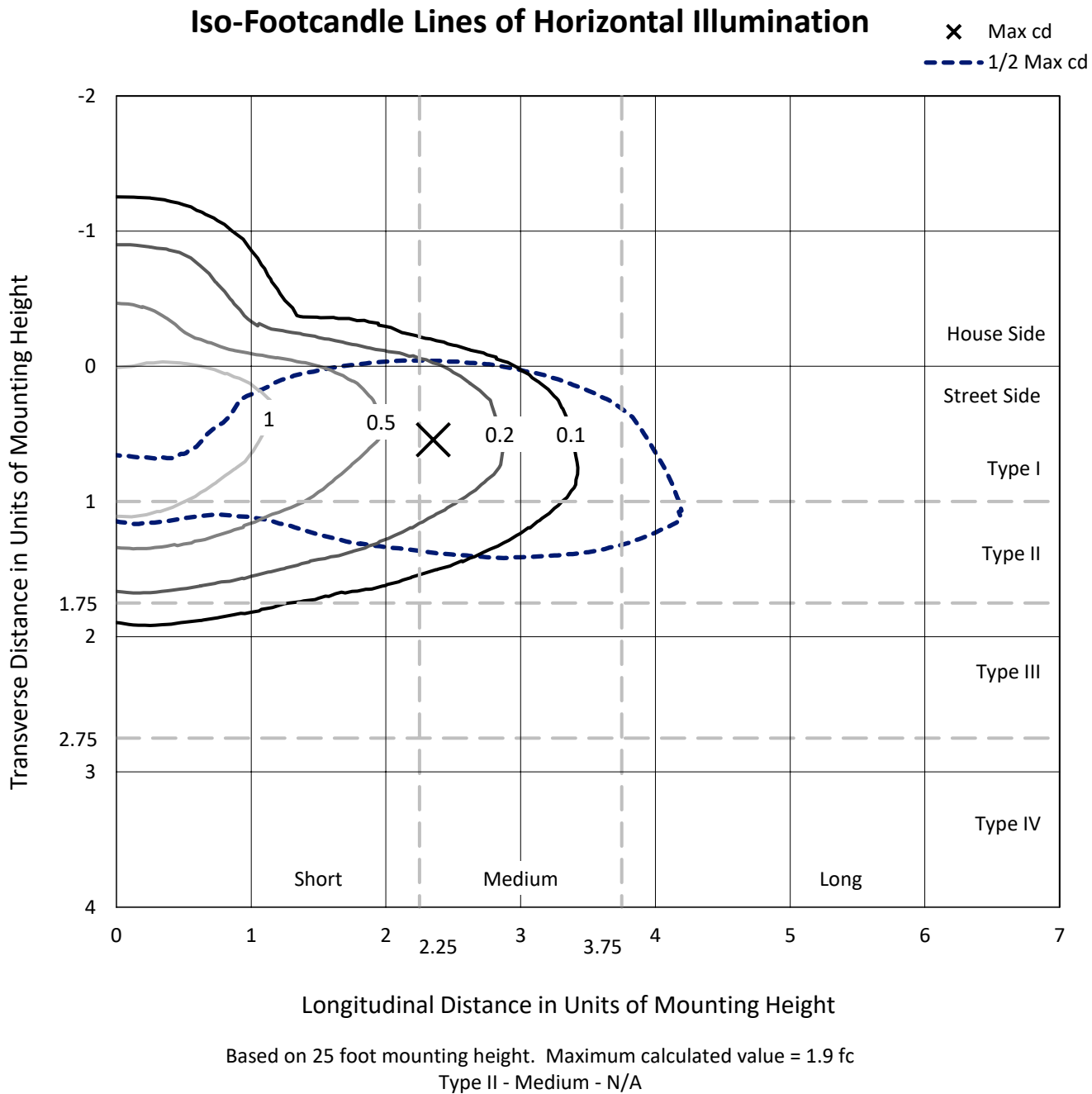
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5113.7 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 39.8
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

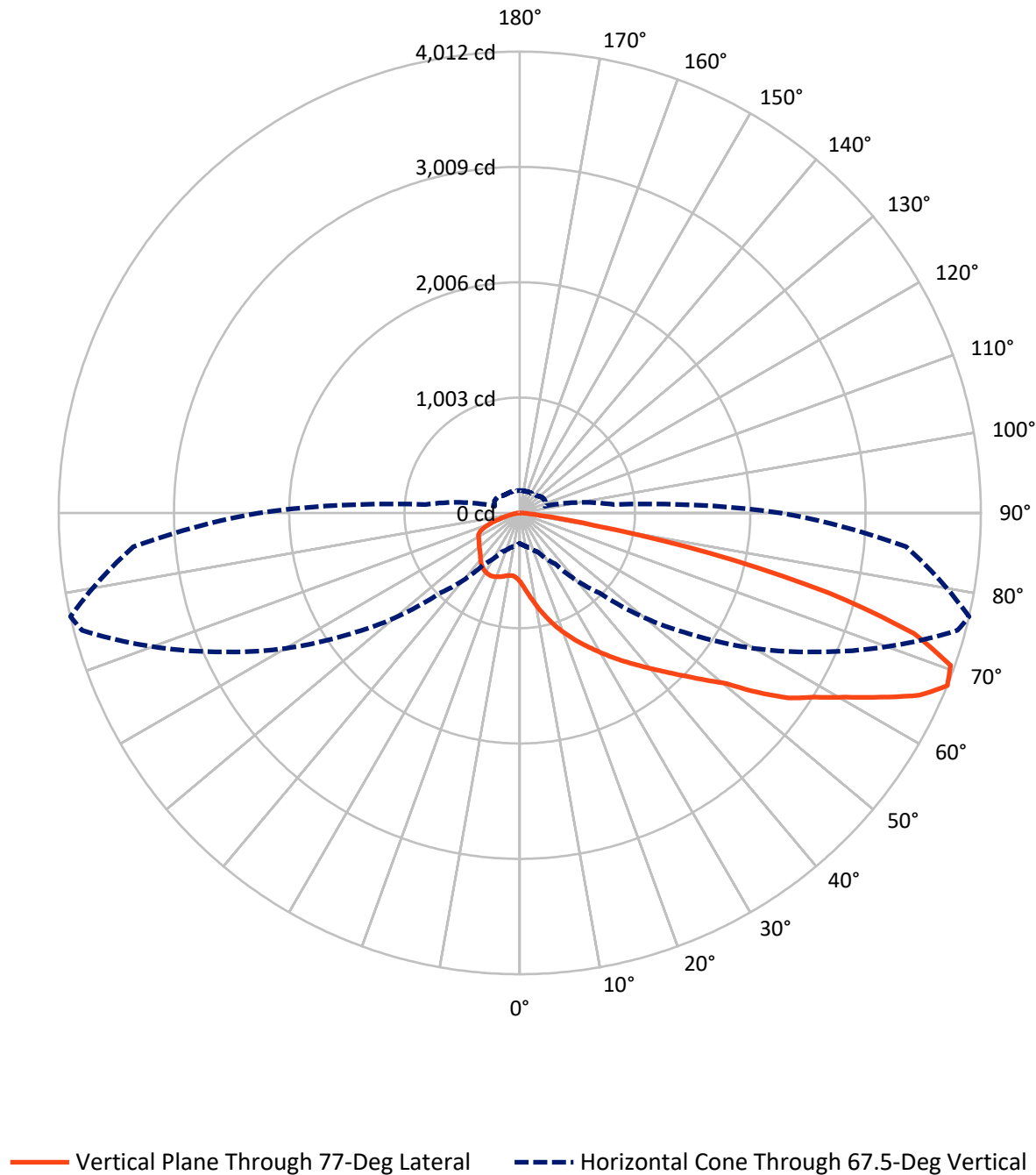


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	967.3	0.0	967.3
	% Fixture	18.9	0.0	18.9
Street Side	Lumens	4146.4	0.0	4146.4
	% Fixture	81.1	0.0	81.1
Total	Lumens	5113.7	0.0	5113.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.3	1.3
10°-20°	231.0	4.5
20°-30°	436.2	8.5
30°-40°	702.8	13.7
40°-50°	961.3	18.8
50°-60°	1084.3	21.2
60°-70°	1012.1	19.8
70°-80°	554.8	10.8
80°-90°	66.9	1.3
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°	5113.7	100.0
0°-180°	5113.7	100.0

Coefficient of Utilization



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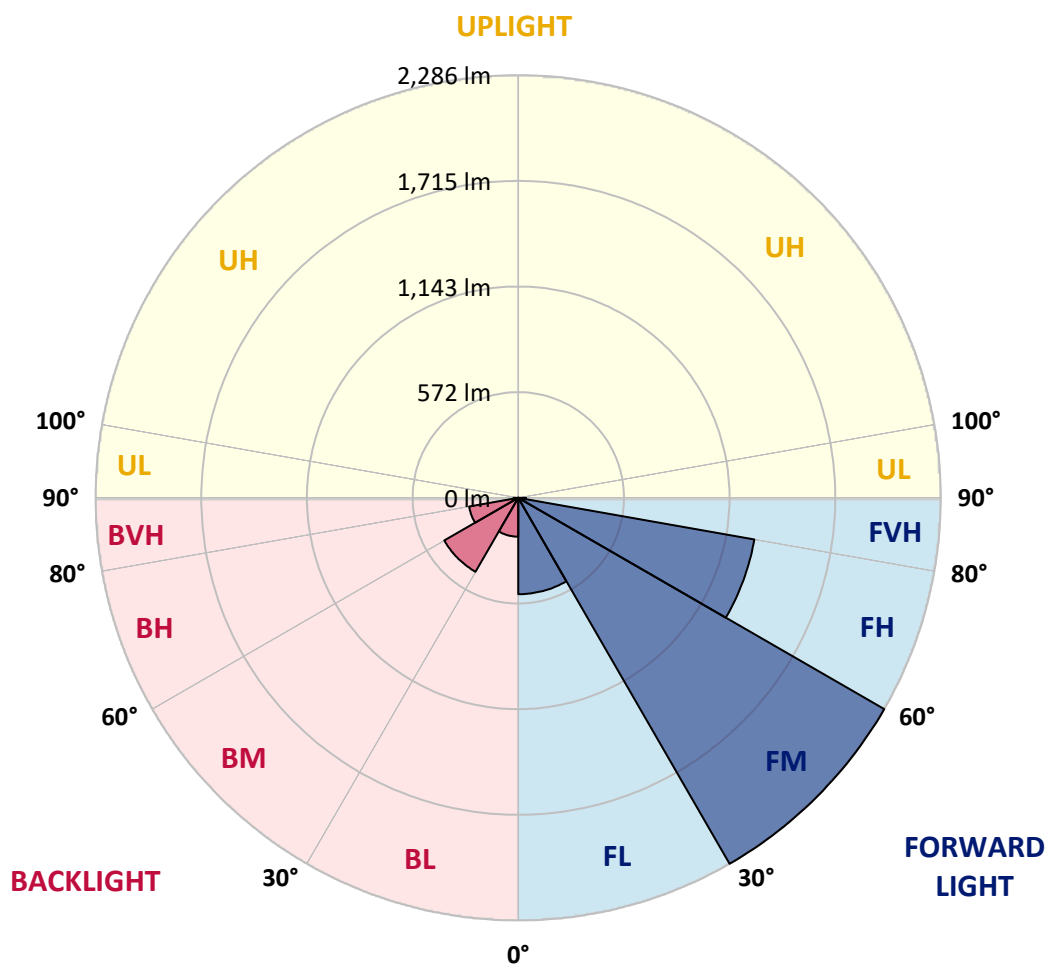
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	521.3	10.2			
FM	(30°-60°)	2286.3	44.7			
FH	(60°-80°)	1297.0	25.4			G1/1800
FVH	(80°-90°)	41.8	0.8			G1/100
BL	(0°-30°)	210.3	4.1	B1/500		
BM	(30°-60°)	462.1	9.0	B1/1000		
BH	(60°-80°)	269.9	5.3	B1/500		G1/500
BVH	(80°-90°)	25.1	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 Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
2.5°	751.2	756.6	749.9	749.9	727.7	716.2	693.9	677.1	646.7	641.4	621.4
5°	888.0	894.6	885.4	881.4	855.3	831.3	794.0	757.4	703.3	697.7	650.5
7.5°	993.8	1002.2	994.1	989.8	966.7	939.7	896.2	845.0	768.6	757.9	689.5
10°	1080.1	1081.5	1078.8	1080.5	1062.2	1040.1	995.4	935.7	840.5	825.7	736.8
12.5°	1129.0	1135.1	1140.3	1149.8	1146.7	1132.9	1092.9	1021.5	916.5	897.5	788.2
15°	1152.0	1162.6	1174.3	1196.3	1214.0	1217.4	1186.8	1113.7	993.8	970.9	840.2
17.5°	1160.1	1170.1	1188.9	1220.6	1258.6	1284.2	1270.5	1203.1	1070.4	1044.0	894.8
20°	1201.6	1204.5	1215.9	1245.9	1287.1	1329.6	1339.9	1289.2	1146.2	1116.3	951.3
22.5°	1290.3	1284.4	1287.6	1301.3	1331.0	1372.1	1395.6	1365.2	1224.1	1189.7	1008.4
25°	1436.7	1419.9	1403.0	1387.1	1402.2	1425.5	1452.1	1441.3	1305.5	1262.0	1065.9
27.5°	1621.9	1601.3	1564.0	1512.0	1493.8	1501.9	1513.8	1511.8	1381.1	1337.0	1125.2
30°	1804.0	1779.9	1735.6	1660.4	1612.3	1590.7	1581.7	1575.6	1463.2	1416.1	1185.2
32.5°	1949.4	1930.4	1886.8	1802.7	1733.0	1696.0	1666.1	1644.5	1549.0	1501.9	1248.6
35°	2076.6	2058.9	2009.1	1917.2	1841.4	1802.2	1763.0	1716.9	1638.2	1590.7	1316.7
37.5°	2192.8	2175.0	2106.7	2011.2	1934.9	1907.7	1872.9	1794.5	1727.6	1682.8	1388.8
40°	2266.2	2262.2	2198.3	2090.1	2010.9	1997.4	1985.8	1884.5	1827.0	1785.2	1467.9
42.5°	2284.9	2293.6	2242.9	2153.9	2078.5	2067.6	2094.9	1986.3	1938.3	1898.5	1557.7
45°	2239.7	2264.8	2231.6	2171.2	2126.6	2120.7	2191.4	2097.8	2061.6	2025.2	1665.9
47.5°	2125.4	2168.0	2154.2	2145.8	2139.5	2164.5	2276.4	2216.0	2201.2	2169.5	1789.4
50°	1894.7	1975.3	1999.3	2052.6	2113.9	2198.6	2353.8	2345.1	2364.4	2332.4	1939.9
52.5°	1495.9	1606.8	1746.2	1879.7	2035.2	2187.2	2438.8	2530.4	2611.7	2594.3	2179.0
55°	1234.8	1284.7	1391.9	1636.8	1882.6	2139.5	2477.1	2680.1	2857.2	2841.6	2360.4
57.5°	1034.2	1078.8	1144.8	1349.4	1651.9	2030.9	2500.8	2771.4	3025.3	3023.7	2539.3
60°	819.1	866.3	933.9	1078.8	1382.4	1843.6	2495.6	2875.4	3239.9	3253.1	2757.7
62.5°	576.3	628.2	703.3	838.3	1107.1	1600.7	2387.8	2950.7	3492.6	3528.5	3020.4
65°	378.8	413.1	469.6	586.3	824.9	1288.4	2182.2	2960.4	3762.9	3823.6	3266.9
67.5°	265.6	278.8	312.0	375.4	543.8	988.0	1854.6	2859.3	3943.2	4011.5	3373.8
70°	207.3	213.8	230.7	256.0	341.5	664.4	1421.2	2596.4	3904.6	3975.9	3262.2
72.5°	179.0	185.3	191.7	194.9	229.1	410.2	962.7	2170.8	3541.7	3590.0	2836.4
75°	162.4	163.9	169.2	168.1	174.8	266.1	555.7	1581.7	2794.4	2777.7	2093.8
77.5°	136.4	138.6	147.3	146.0	155.2	181.8	288.5	1020.8	1811.6	1698.6	1165.4
80°	115.6	116.6	126.2	124.6	134.9	131.7	147.3	520.3	768.4	651.0	336.0
82.5°	40.1	49.6	96.4	99.2	102.9	79.7	85.0	212.3	234.6	179.8	70.5
85°	19.6	20.8	49.1	69.7	69.4	40.1	41.4	75.7	73.9	58.1	23.5
87.5°	3.2	4.0	5.8	27.2	21.6	10.6	14.2	14.8	15.3	13.2	5.3
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°	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0	600.0
2.5°	606.6	593.4	565.7	540.1	520.0	500.7	489.9	480.7	475.4	474.4	474.4
5°	623.0	595.7	545.4	502.9	475.2	454.6	443.7	436.9	433.5	431.3	431.0
7.5°	646.5	606.6	534.8	486.5	457.5	442.7	437.2	436.0	435.8	436.0	436.9
10°	679.0	624.3	533.7	482.6	458.3	450.1	449.8	450.1	451.1	451.4	451.6
12.5°	714.0	642.5	537.9	486.0	468.3	463.8	463.0	462.7	463.5	464.0	464.3
15°	752.3	666.6	545.1	493.3	479.4	474.6	473.9	472.2	472.0	471.7	471.4
17.5°	791.6	690.2	553.0	501.2	486.5	479.9	477.0	473.3	470.4	469.6	470.4
20°	831.5	713.8	558.5	505.2	487.0	477.8	472.0	465.7	460.6	457.8	458.8
22.5°	874.0	738.3	562.0	504.2	482.3	469.6	459.0	451.6	444.0	439.0	439.2
25°	915.4	759.7	561.7	498.7	473.0	456.9	443.4	434.0	423.4	418.1	418.1
27.5°	955.3	779.0	555.1	488.8	459.8	441.9	425.8	414.4	404.2	399.1	398.8
30°	996.5	795.1	544.8	474.6	444.2	424.5	406.8	397.0	387.8	383.0	382.7
32.5°	1037.4	809.9	530.3	456.9	426.3	407.3	389.9	380.9	375.4	375.4	375.7
35°	1080.7	820.1	511.1	436.3	407.3	389.1	375.4	370.1	369.5	366.4	365.6
37.5°	1126.4	826.8	487.6	415.2	388.6	371.4	367.2	360.8	355.6	348.7	347.7
40°	1174.3	833.3	459.3	393.3	368.8	359.3	357.4	349.0	333.9	317.0	314.7
42.5°	1232.8	837.8	430.0	371.4	347.9	344.7	347.4	332.8	308.8	296.1	296.4
45°	1300.3	845.2	403.0	349.7	326.6	326.6	337.6	318.6	298.8	290.9	292.2
47.5°	1388.0	862.3	378.0	326.0	306.7	312.0	316.0	301.5	290.4	280.6	280.3
50°	1514.6	903.5	352.1	302.0	291.7	302.3	296.7	288.2	275.3	267.4	266.6
52.5°	1672.0	927.8	329.1	280.3	278.8	289.4	281.4	273.5	263.7	253.2	251.0
55°	1779.1	932.3	309.9	264.4	270.1	269.0	266.1	258.9	253.7	239.6	240.0
57.5°	1899.0	941.4	294.1	255.0	264.4	252.9	251.8	245.8	238.9	229.4	226.2
60°	2042.3	955.3	280.3	251.3	259.7	242.3	237.1	234.6	227.8	223.0	224.4
62.5°	2198.6	968.0	266.3	251.8	254.2	232.1	224.1	223.3	219.0	217.5	217.5
65°	2305.2	933.4	249.0	251.3	245.5	221.5	211.5	211.2	207.8	207.3	206.9
67.5°	2268.0	823.8	225.4	244.0	236.5	210.9	199.8	198.7	194.2	194.5	194.5
70°	2081.7	667.6	193.0	225.7	225.4	201.4	187.7	184.3	178.1	179.3	180.3
72.5°	1732.1	494.7	149.4	195.4	207.8	192.7	173.7	168.1	160.5	161.5	161.3
75°	1250.9	336.3	108.8	148.6	180.8	182.4	160.0	150.5	141.2	142.8	143.3
77.5°	640.1	190.5	79.9	102.4	142.1	165.7	147.6	134.9	132.7	147.6	145.4
80°	208.8	95.5	55.5	71.8	93.2	135.7	129.4	114.8	114.3	117.8	101.1
82.5°	62.3	40.4	35.7	47.3	51.5	104.0	111.6	86.8	74.7	78.6	81.3
85°	21.4	19.6	20.3	23.5	24.6	61.0	78.1	57.5	54.4	60.0	59.1
87.5°	5.0	6.9	5.8	5.3	5.3	14.8	30.3	24.0	33.2	22.1	21.4
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)