

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: P960249

Luminaire Tested: **NAV-SB1C-722-U-SL3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960249
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-722-U-SL3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 2200K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5108.6 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

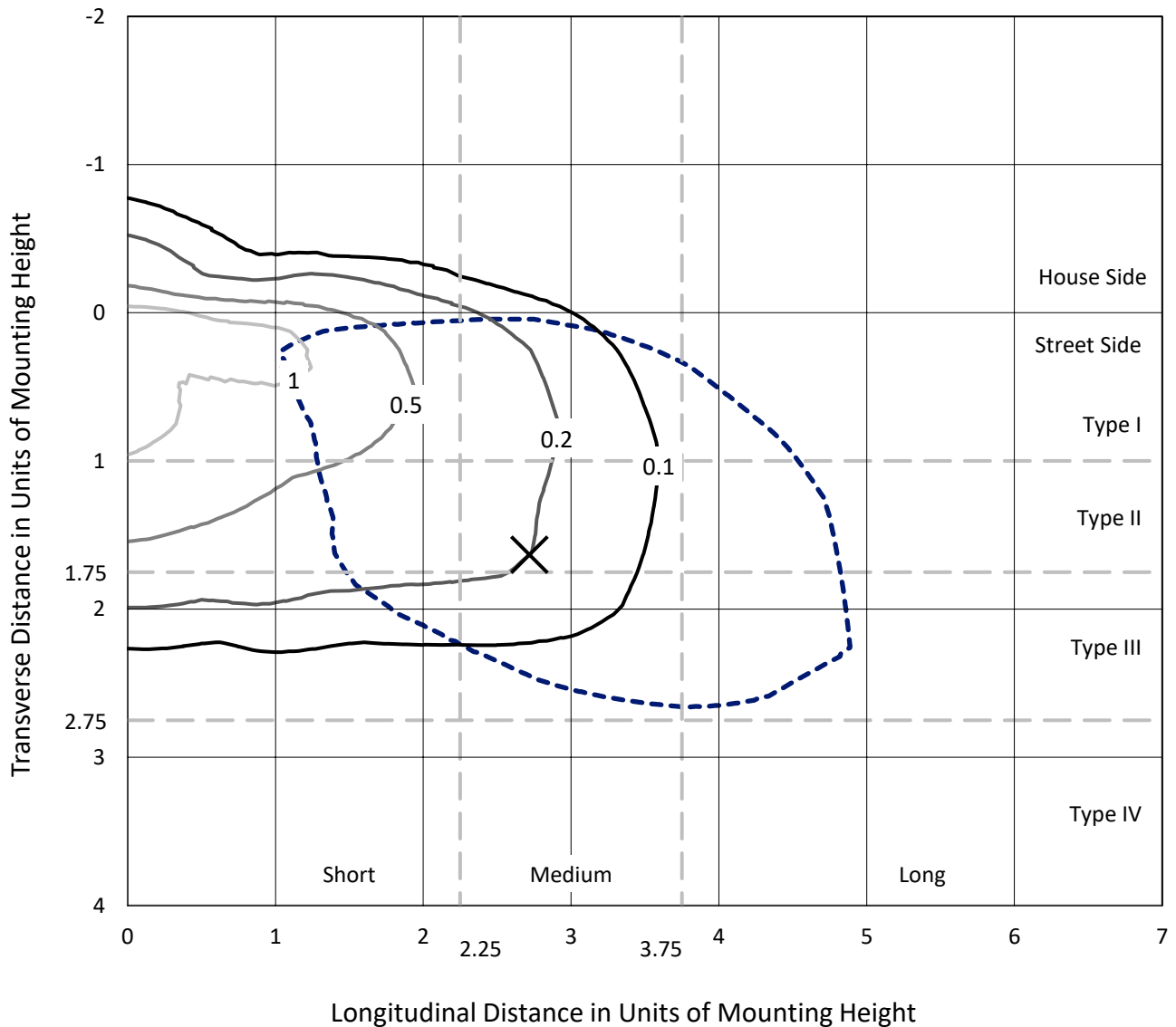
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

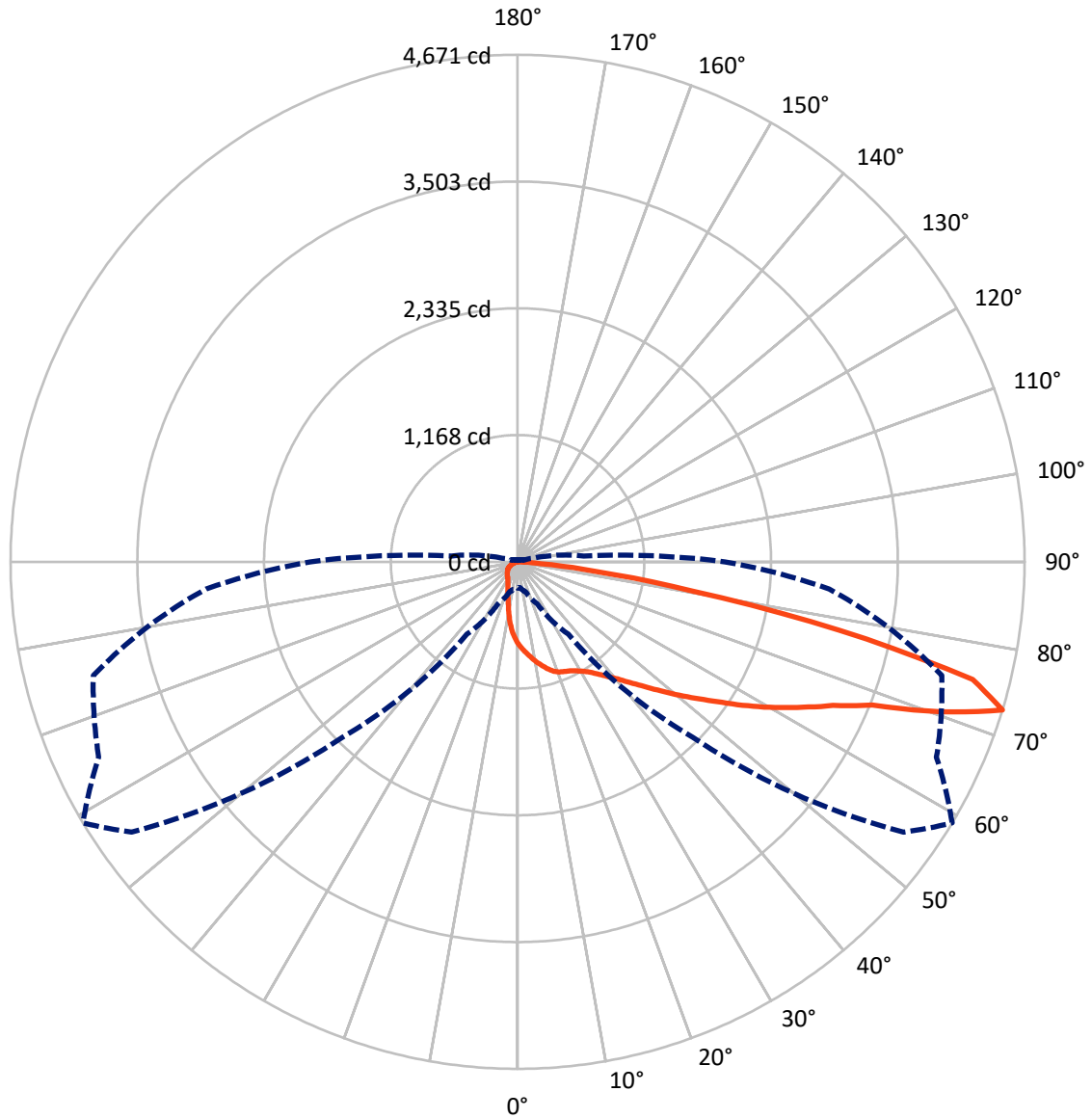
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	539.6	0.0	539.6
	% Fixture	10.6	0.0	10.6
Street Side	Lumens	4569.0	0.0	4569.0
	% Fixture	89.4	0.0	89.4
Total	Lumens	5108.6	0.0	5108.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.3	1.3
10°-20°	181.5	3.6
20°-30°	287.7	5.6
30°-40°	461.7	9.0
40°-50°	737.5	14.4
50°-60°	1067.8	20.9
60°-70°	1267.2	24.8
70°-80°	940.7	18.4
80°-90°	96.2	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°	5108.6	100.0
0°-180°	5108.6	100.0

Coefficient of Utilization

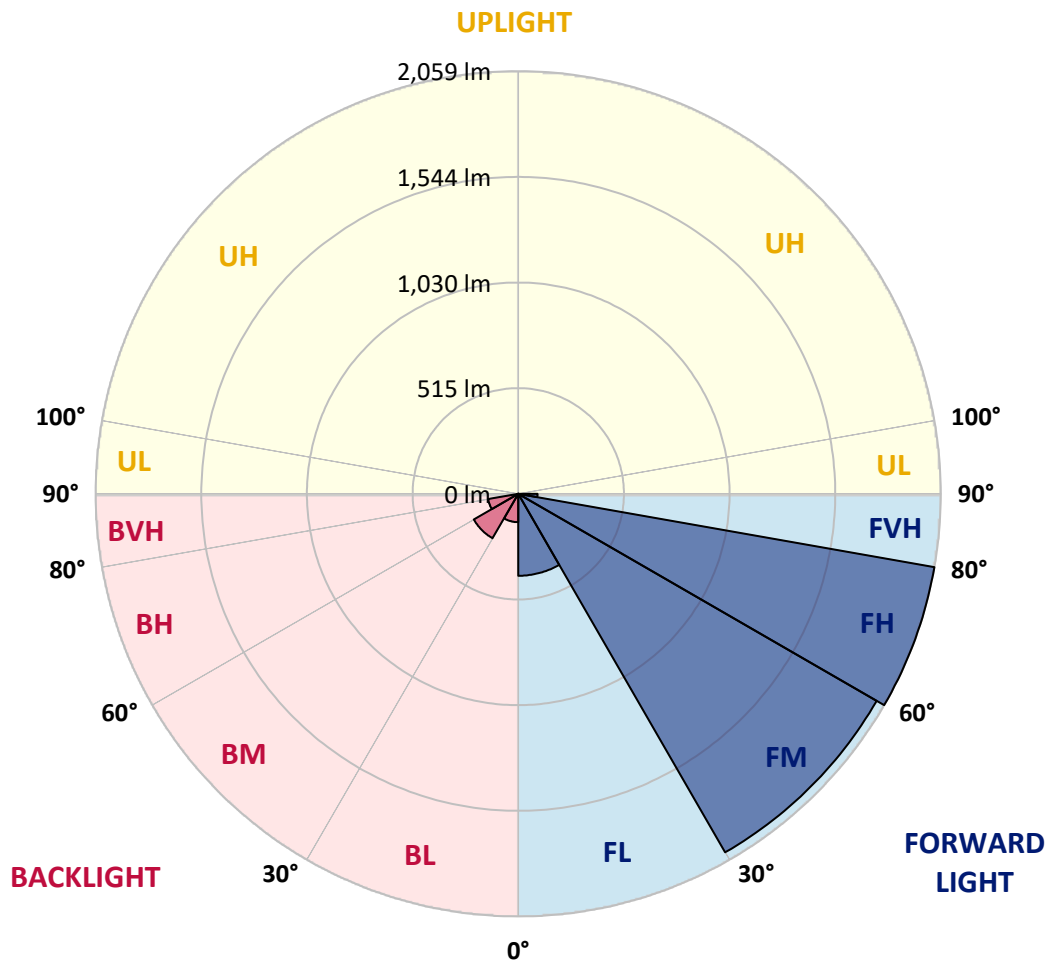


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	399.4	7.8			
FM (30°-60°)	2016.8	39.5			
FH (60°-80°)	2059.1	40.3			G2/5000
FVH (80°-90°)	93.8	1.8			G1/100
BL (0°-30°)	138.2	2.7	B1/500		
BM (30°-60°)	250.2	4.9	B1/1000		
BH (60°-80°)	148.8	2.9	B1/500		G1/500
BVH (80°-90°)	2.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	755.4	755.4	755.4	755.4	755.4	755.4	755.4	755.4	755.4	755.4	755.4
2.5°	838.1	833.5	834.1	826.2	820.5	814.5	802.8	801.1	792.8	778.1	763.1
5°	911.2	908.2	905.5	896.6	884.9	870.2	850.5	843.5	828.2	802.8	773.5
7.5°	964.5	960.9	962.3	953.2	943.9	927.5	900.6	887.5	867.2	828.5	784.1
10°	974.9	972.9	981.5	984.9	984.9	974.6	948.2	935.2	905.5	856.2	795.1
12.5°	916.9	917.2	938.9	964.9	999.0	1008.6	990.9	976.9	947.5	885.5	809.1
15°	849.2	849.5	870.5	903.8	959.6	1015.3	1029.3	1020.3	989.9	917.2	825.4
17.5°	808.5	806.8	820.8	848.2	906.5	984.9	1052.6	1058.6	1033.9	952.2	843.5
20°	802.8	799.8	807.2	820.8	862.5	946.9	1055.2	1083.6	1079.3	991.9	864.2
22.5°	837.5	832.8	828.8	829.5	847.2	915.2	1048.6	1097.7	1126.0	1039.6	892.6
25°	906.2	898.8	885.8	869.2	865.5	908.6	1044.0	1112.9	1169.3	1100.6	929.9
27.5°	990.3	979.9	954.9	929.9	908.6	927.2	1053.6	1137.3	1218.4	1171.7	973.2
30°	1082.6	1070.0	1045.0	997.6	963.6	968.9	1076.7	1169.3	1281.0	1252.0	1027.6
32.5°	1218.4	1189.0	1145.3	1073.0	1028.0	1013.9	1111.3	1210.0	1358.8	1359.1	1106.3
35°	1334.8	1318.5	1274.4	1184.4	1091.9	1073.6	1157.0	1267.4	1466.6	1500.9	1216.4
37.5°	1411.1	1388.8	1350.1	1282.4	1191.4	1135.0	1218.0	1337.8	1580.6	1662.3	1352.1
40°	1496.5	1474.6	1423.2	1359.5	1306.8	1240.4	1295.1	1418.8	1705.7	1828.1	1507.3
42.5°	1599.6	1570.9	1510.2	1441.5	1386.5	1379.1	1395.8	1519.9	1834.0	2008.2	1668.6
45°	1720.7	1693.6	1623.9	1537.2	1488.9	1475.9	1522.5	1637.6	1977.1	2205.6	1831.8
47.5°	1834.0	1802.7	1727.6	1648.6	1594.9	1553.9	1657.3	1776.7	2139.3	2412.0	1985.8
50°	1930.5	1898.4	1829.7	1745.4	1709.0	1655.3	1789.8	1931.8	2300.0	2621.8	2126.6
52.5°	1996.5	1968.1	1887.4	1830.0	1805.4	1778.4	1944.8	2096.2	2460.1	2813.9	2265.7
55°	1981.5	1956.1	1885.1	1881.1	1879.4	1907.7	2130.3	2282.7	2623.2	2995.8	2404.0
57.5°	1933.8	1905.1	1816.4	1877.4	1936.4	2023.1	2331.1	2503.2	2801.9	3167.1	2537.5
60°	1793.3	1783.4	1729.4	1870.4	1960.5	2136.2	2560.4	2724.6	2995.5	3317.9	2655.9
62.5°	1496.2	1504.9	1504.5	1885.1	2003.9	2264.9	2768.9	2948.7	3184.6	3463.1	2761.2
65°	1120.3	1150.4	1188.7	1753.1	2061.9	2494.7	3018.1	3191.8	3376.7	3631.8	2868.4
67.5°	752.8	776.7	802.8	1438.2	1889.1	2736.2	3432.0	3525.1	3606.8	3818.8	2988.7
70°	430.9	438.6	475.0	898.2	1456.2	2669.5	4106.0	4139.8	3949.9	4049.4	3076.4
72.5°	241.5	238.8	286.8	426.3	813.8	2286.0	4342.2	4670.7	4257.1	4045.7	2880.7
75°	161.4	161.7	197.4	268.9	317.1	1600.2	3741.9	4330.8	4073.0	3587.4	2353.7
77.5°	110.1	113.8	145.0	207.8	146.8	780.7	2475.5	3033.8	3297.6	2770.3	1624.9
80°	47.7	48.1	95.7	149.1	99.0	248.5	1283.4	1625.2	2068.2	1555.5	643.7
82.5°	24.7	28.0	61.0	96.4	62.3	87.0	606.4	710.1	867.9	456.6	132.1
85°	8.7	10.4	37.7	47.4	31.4	31.1	211.2	215.1	183.8	68.7	36.4
87.5°	0.0	1.6	14.7	11.7	4.0	3.7	25.0	21.0	16.7	9.6	12.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	755.4	755.4	755.4	755.4	755.4	755.4	755.4	755.4	755.4	755.4	755.4
2.5°	756.1	747.1	732.5	714.4	693.4	682.0	665.7	655.7	646.7	647.1	654.4
5°	757.1	742.1	704.8	665.0	621.0	588.7	552.7	527.3	508.0	503.3	510.3
7.5°	760.1	734.7	673.7	607.7	534.3	479.9	430.3	398.9	381.2	376.6	381.2
10°	764.1	726.7	638.7	537.6	446.6	381.2	339.9	319.9	311.8	305.9	309.5
12.5°	767.4	718.4	594.7	465.2	368.6	317.5	286.2	269.5	262.5	258.2	260.5
15°	773.2	707.5	546.9	397.9	315.8	274.2	244.5	232.2	230.1	230.8	231.8
17.5°	778.8	696.7	493.6	345.2	277.2	236.2	218.1	216.2	218.8	221.5	222.4
20°	785.2	681.4	439.6	305.6	241.5	209.8	205.1	206.4	207.8	212.5	213.8
22.5°	794.5	662.0	392.3	271.8	211.8	197.1	194.7	195.8	196.8	201.4	202.7
25°	807.8	641.3	353.8	240.8	193.1	186.8	184.4	184.4	185.7	190.1	191.8
27.5°	821.8	612.0	322.9	212.1	182.1	175.5	171.5	171.5	173.1	178.1	180.1
30°	837.5	585.4	298.5	190.8	172.8	164.1	158.8	157.4	159.4	165.7	167.4
32.5°	865.8	568.0	281.2	180.8	164.4	153.8	146.4	142.8	144.7	152.1	154.1
35°	908.9	564.0	269.2	175.8	156.4	144.4	134.1	128.4	130.1	137.8	140.1
37.5°	959.2	572.4	257.5	169.1	148.7	135.4	121.8	114.4	117.1	124.0	126.1
40°	1031.6	607.0	248.5	164.1	141.0	124.7	109.4	102.1	106.4	112.4	113.4
42.5°	1119.0	668.7	246.1	159.4	131.7	113.4	98.1	92.8	96.0	101.7	102.7
45°	1227.3	747.4	256.9	153.4	121.4	102.4	89.1	86.1	87.0	92.8	95.4
47.5°	1343.8	828.2	286.2	148.1	112.4	93.4	82.0	79.3	78.7	84.0	87.4
50°	1461.5	899.8	320.8	144.1	106.1	86.1	76.7	73.4	71.8	75.0	76.4
52.5°	1577.9	956.9	343.6	137.5	99.7	78.7	72.1	67.0	64.1	65.7	67.0
55°	1696.0	1007.0	344.9	127.4	93.7	74.0	67.3	61.7	58.0	58.0	58.7
57.5°	1806.4	1050.9	325.2	114.1	85.4	69.7	61.0	56.4	52.4	51.0	51.4
60°	1904.1	1083.6	292.5	99.0	78.0	64.1	54.7	51.0	46.0	43.4	42.7
62.5°	1991.2	1099.6	247.8	83.7	69.1	57.4	48.7	44.7	38.0	34.6	34.3
65°	2064.9	1083.3	201.1	69.4	61.4	50.0	41.7	37.7	30.3	26.3	26.3
67.5°	2137.9	1008.6	152.1	58.3	53.4	42.0	34.3	30.6	25.3	22.0	22.0
70°	2147.3	851.5	106.4	49.0	44.4	32.4	27.7	25.3	20.7	17.6	17.3
72.5°	1911.4	612.6	64.7	40.0	34.6	23.1	22.0	20.0	15.4	13.3	13.0
75°	1527.9	375.6	38.0	30.0	23.1	16.3	16.3	14.3	10.4	8.7	8.7
77.5°	1056.0	196.5	22.3	19.4	13.6	9.6	10.7	8.7	5.0	4.0	4.0
80°	422.9	74.7	12.0	9.0	6.4	4.3	3.7	2.0	1.0	0.7	1.0
82.5°	84.4	19.7	4.0	2.4	2.4	1.0	0.0	0.0	0.0	0.0	0.0
85°	21.7	4.3	1.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.7	0.0	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)