

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: P960475

Luminaire Tested: **NAV-SB1C-827-U-T2-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P960475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB1C-827-U-T2-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE II OPTICS WITH
HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

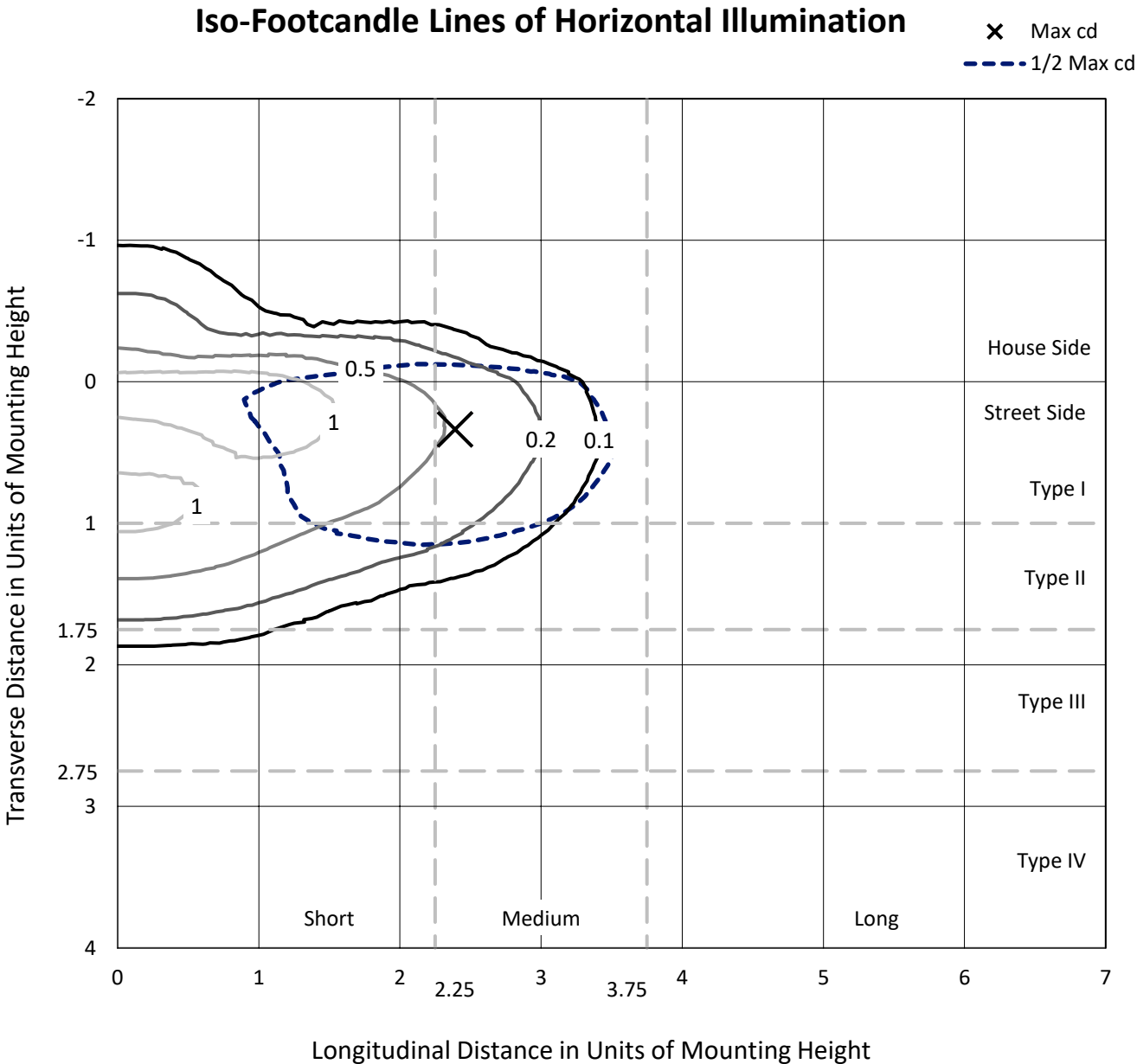
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4875.9 lumens
Efficiency: N/A
Efficacy: 89.6 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): 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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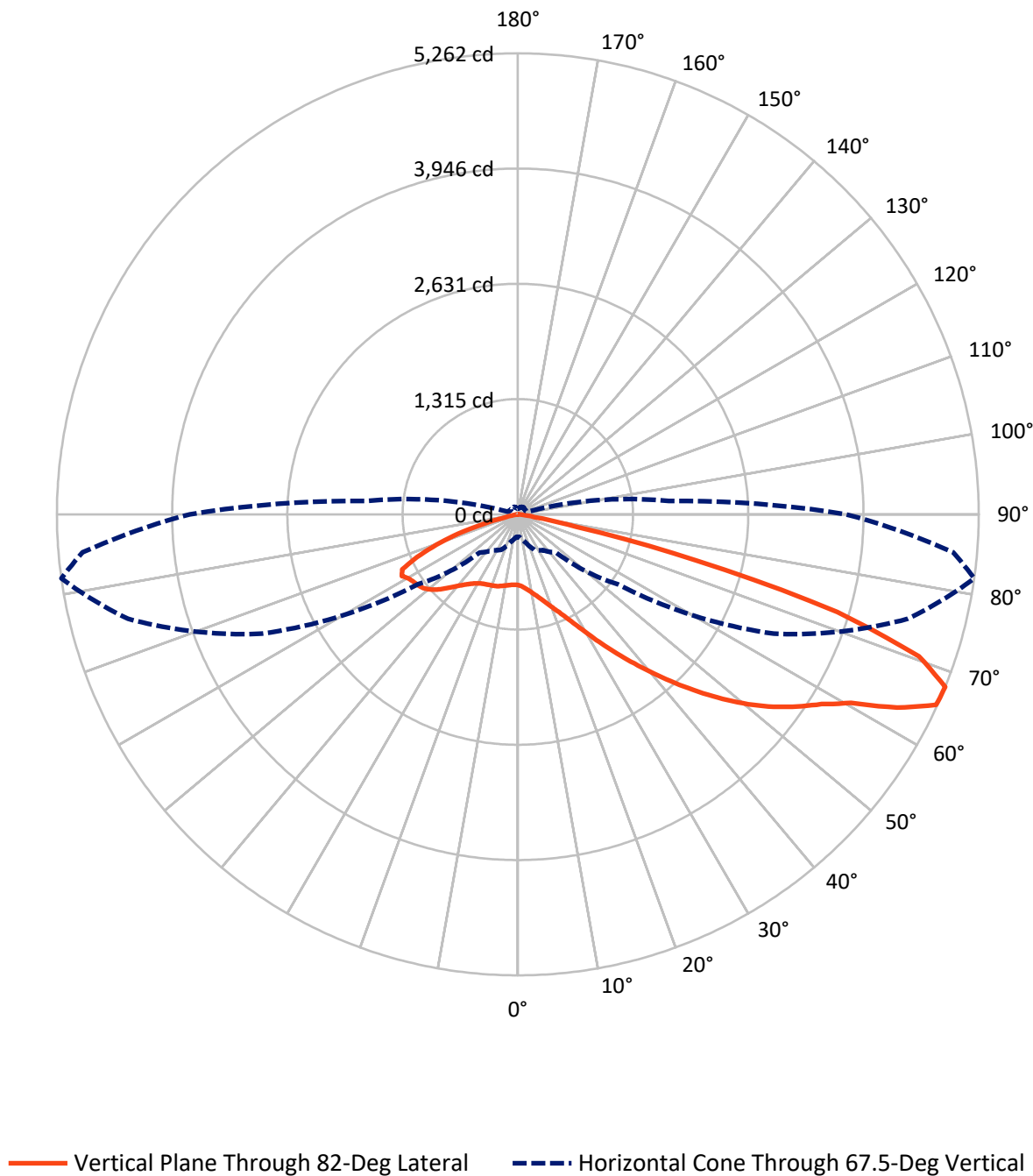


Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	883.2	0.0	883.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	3992.7	0.0	3992.7
	% Fixture	81.9	0.0	81.9
Total	Lumens	4875.9	0.0	4875.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.0	1.5
10°-20°	187.0	3.8
20°-30°	299.5	6.1
30°-40°	529.7	10.9
40°-50°	928.0	19.0
50°-60°	1237.7	25.4
60°-70°	1152.3	23.6
70°-80°	442.2	9.1
80°-90°	27.5	0.6
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°	4875.9	100.0
0°-180°	4875.9	100.0

Coefficient of Utilization



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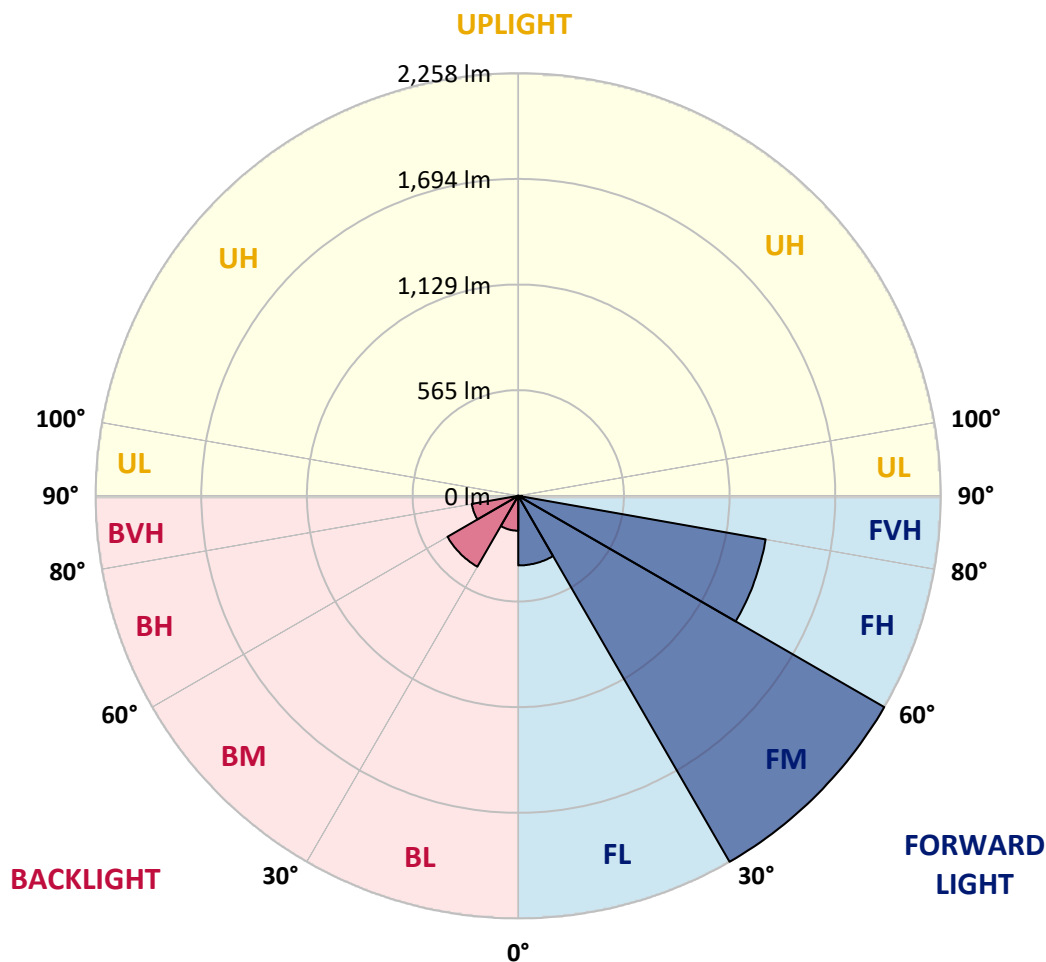
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.0	7.6			
FM	(30°-60°)	2258.3	46.3			
FH	(60°-80°)	1342.4	27.5			G1/1800
FVH	(80°-90°)	20.0	0.4			G1/100
BL	(0°-30°)	186.5	3.8	B1/500		
BM	(30°-60°)	437.1	9.0	B1/1000		
BH	(60°-80°)	252.1	5.2	B1/500		G1/500
BVH	(80°-90°)	7.5	0.2			G0/10
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°	82°	85°
0°	807.8	807.8	807.8	807.8	807.8	807.8	807.8	807.8	807.8	807.8	807.8
2.5°	853.7	858.6	855.9	854.4	852.0	848.5	845.7	836.9	827.8	821.8	819.7
5°	870.9	875.9	875.6	876.9	878.7	879.8	879.0	869.2	856.2	846.0	840.1
7.5°	856.2	861.8	866.4	873.4	885.7	898.7	905.0	902.9	889.6	875.6	868.2
10°	814.5	820.4	831.3	847.8	873.8	901.9	925.4	936.2	927.8	912.4	902.2
12.5°	737.9	743.8	765.3	801.1	844.6	893.4	938.4	967.5	969.6	954.2	942.2
15°	651.9	657.8	680.7	725.6	792.0	870.2	945.4	1000.5	1019.2	1005.7	991.4
17.5°	598.5	603.8	621.0	657.1	726.3	823.9	942.9	1035.7	1078.1	1067.5	1050.3
20°	582.4	586.9	595.0	620.3	677.9	775.8	926.8	1068.6	1141.6	1135.7	1116.3
22.5°	599.6	603.8	606.3	617.5	653.6	744.3	906.4	1102.3	1215.3	1216.1	1192.5
25°	639.3	643.5	640.6	647.7	663.5	734.4	898.7	1142.0	1308.0	1315.8	1289.0
27.5°	704.6	704.9	698.2	697.9	700.4	749.2	906.8	1184.5	1425.0	1439.3	1406.3
30°	835.5	830.2	804.6	776.8	764.2	793.3	929.3	1234.6	1562.9	1588.5	1547.1
32.5°	1037.4	1029.6	982.6	916.2	849.5	864.7	969.6	1291.9	1713.2	1759.5	1709.0
35°	1256.4	1254.3	1205.2	1106.5	989.9	966.1	1035.2	1367.0	1877.1	1950.8	1890.8
37.5°	1460.0	1459.0	1430.9	1314.7	1172.9	1107.6	1140.6	1465.3	2052.7	2159.4	2088.4
40°	1646.0	1649.2	1621.1	1517.3	1374.4	1289.0	1283.8	1586.8	2247.8	2386.5	2302.3
42.5°	1806.9	1810.4	1782.0	1705.1	1573.4	1489.8	1459.7	1735.6	2438.4	2630.5	2530.7
45°	1916.0	1937.9	1933.6	1872.2	1777.8	1691.0	1671.1	1922.4	2655.8	2889.2	2772.3
47.5°	1947.0	1967.0	1998.5	2007.0	1949.4	1864.1	1887.9	2147.4	2875.5	3148.3	3015.2
50°	1870.7	1889.4	1955.0	2042.4	2082.5	2056.1	2099.0	2388.6	3100.5	3406.6	3253.6
52.5°	1720.6	1739.4	1822.3	1960.6	2123.9	2206.7	2310.7	2626.3	3318.5	3651.4	3479.3
55°	1503.3	1523.3	1629.5	1786.2	2044.9	2268.8	2487.3	2863.5	3518.3	3871.4	3682.9
57.5°	1207.7	1222.4	1332.9	1552.1	1846.2	2207.0	2617.4	3122.7	3706.4	4087.7	3884.7
60°	787.1	800.0	928.5	1172.9	1516.9	2000.7	2643.5	3411.5	3956.4	4368.9	4156.8
62.5°	523.5	532.2	608.3	787.8	1068.3	1604.3	2491.5	3642.2	4322.8	4858.2	4623.4
65°	359.2	367.9	444.1	569.1	690.1	1061.3	2054.4	3611.7	4654.9	5246.9	4969.2
67.5°	256.2	263.6	328.2	446.2	499.6	616.4	1392.7	3221.3	4607.3	5261.6	4987.8
70°	183.6	187.8	241.2	347.6	397.1	370.3	774.4	2463.7	4034.0	4858.6	4607.9
72.5°	128.5	129.9	167.5	264.7	319.8	270.3	368.6	1642.6	3051.0	3813.5	3572.3
75°	87.0	88.9	112.6	194.1	256.7	206.4	195.2	880.8	1791.1	2110.9	1892.2
77.5°	53.4	54.0	72.7	132.7	192.0	157.2	125.7	373.2	693.0	680.3	579.9
80°	30.2	30.2	46.3	82.5	130.9	101.5	88.1	158.7	219.5	192.7	169.9
82.5°	16.8	17.2	33.7	51.2	86.7	60.1	48.5	73.4	94.8	83.9	73.0
85°	7.0	7.7	20.7	24.2	41.4	29.8	19.7	30.9	35.1	31.3	22.9
87.5°	0.7	1.0	6.4	4.6	4.9	5.9	2.8	5.9	4.9	4.9	3.5
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°	807.8	807.8	807.8	807.8	807.8	807.8	807.8	807.8	807.8	807.8	807.8
2.5°	813.0	807.8	794.5	779.0	758.6	748.8	735.4	726.3	718.6	719.3	712.3
5°	828.8	815.5	785.7	748.5	702.1	669.1	634.0	609.8	590.1	585.9	576.5
7.5°	850.6	829.5	777.3	710.2	631.9	572.6	519.6	485.5	461.2	453.6	445.9
10°	878.7	848.2	766.4	662.0	549.4	474.0	417.1	390.4	373.9	368.3	364.1
12.5°	911.3	869.6	751.9	603.4	464.4	391.8	355.6	342.2	337.0	335.3	334.3
15°	952.4	896.3	730.2	533.9	392.5	341.5	326.2	324.4	325.0	324.4	324.0
17.5°	1001.2	925.4	694.7	462.4	344.0	315.9	310.4	311.7	313.4	313.1	312.4
20°	1054.5	954.2	649.4	398.8	311.0	297.7	294.6	295.9	297.4	296.6	296.3
22.5°	1115.3	985.0	599.2	349.3	288.9	280.8	277.4	277.7	277.7	276.2	275.6
25°	1188.0	1019.2	546.6	314.2	272.0	265.8	261.6	260.1	258.0	253.8	253.1
27.5°	1274.7	1055.2	496.0	289.7	258.7	252.8	247.8	244.4	239.0	232.1	231.3
30°	1372.3	1099.1	453.3	274.2	248.2	242.2	236.6	231.3	223.7	214.8	214.1
32.5°	1487.1	1146.2	422.0	264.0	238.7	232.4	225.7	219.5	210.9	202.2	202.5
35°	1624.0	1203.0	403.7	257.0	231.3	222.9	215.6	208.5	202.2	194.4	193.8
37.5°	1772.4	1263.4	398.1	253.5	226.4	213.4	205.0	200.1	199.4	194.9	194.4
40°	1935.0	1335.1	402.3	251.3	221.2	204.3	195.2	194.1	195.9	187.8	188.2
42.5°	2107.0	1420.0	409.3	248.9	213.8	195.2	186.4	186.4	185.0	173.7	173.7
45°	2293.1	1517.9	416.4	242.9	205.0	186.0	179.4	176.9	171.0	160.1	159.7
47.5°	2480.5	1617.7	421.6	232.1	194.4	178.4	172.4	166.8	158.0	148.1	147.8
50°	2658.5	1707.1	416.0	215.9	182.6	171.0	164.6	156.9	147.4	140.7	139.7
52.5°	2817.5	1784.7	392.2	196.9	169.9	163.3	157.6	149.5	141.9	134.8	134.1
55°	2955.9	1847.6	350.0	179.1	158.7	156.6	151.0	140.7	130.3	124.2	123.6
57.5°	3088.5	1895.3	297.4	164.3	148.5	149.2	140.7	131.6	121.8	115.5	114.8
60°	3265.1	1959.2	244.0	150.6	137.7	139.7	130.6	123.9	111.6	103.5	102.5
62.5°	3547.4	2058.6	193.8	133.8	124.9	125.7	121.8	113.8	99.0	89.5	88.9
65°	3771.4	2022.1	152.7	115.5	110.6	111.6	111.6	102.9	87.0	76.2	75.1
67.5°	3746.1	1731.4	121.8	97.6	96.9	97.6	100.0	92.7	77.2	68.5	67.0
70°	3450.9	1377.2	97.6	81.1	84.3	82.5	89.5	84.6	69.5	60.8	59.7
72.5°	2815.8	992.1	74.4	67.0	64.6	67.4	80.8	76.2	57.9	48.1	47.0
75°	1645.4	529.4	55.5	53.0	46.7	56.2	71.6	65.0	44.3	35.5	34.4
77.5°	535.7	184.7	40.7	38.9	34.7	45.3	61.1	54.7	36.2	28.1	27.1
80°	143.6	55.9	27.8	25.6	22.4	33.7	48.5	43.6	25.9	18.2	17.9
82.5°	57.6	23.5	16.2	14.3	12.3	23.2	38.2	35.1	19.3	11.6	11.6
85°	18.7	7.7	5.9	4.6	5.6	14.3	22.9	23.9	13.7	5.9	4.6
87.5°	2.5	1.0	1.0	1.4	1.0	2.5	7.0	6.7	3.9	0.7	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)