

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: P971397

Luminaire Tested: **NAV-SB6D-730-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P971397
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-SB6D-730-U-T4FT-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA 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: 47890.1 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

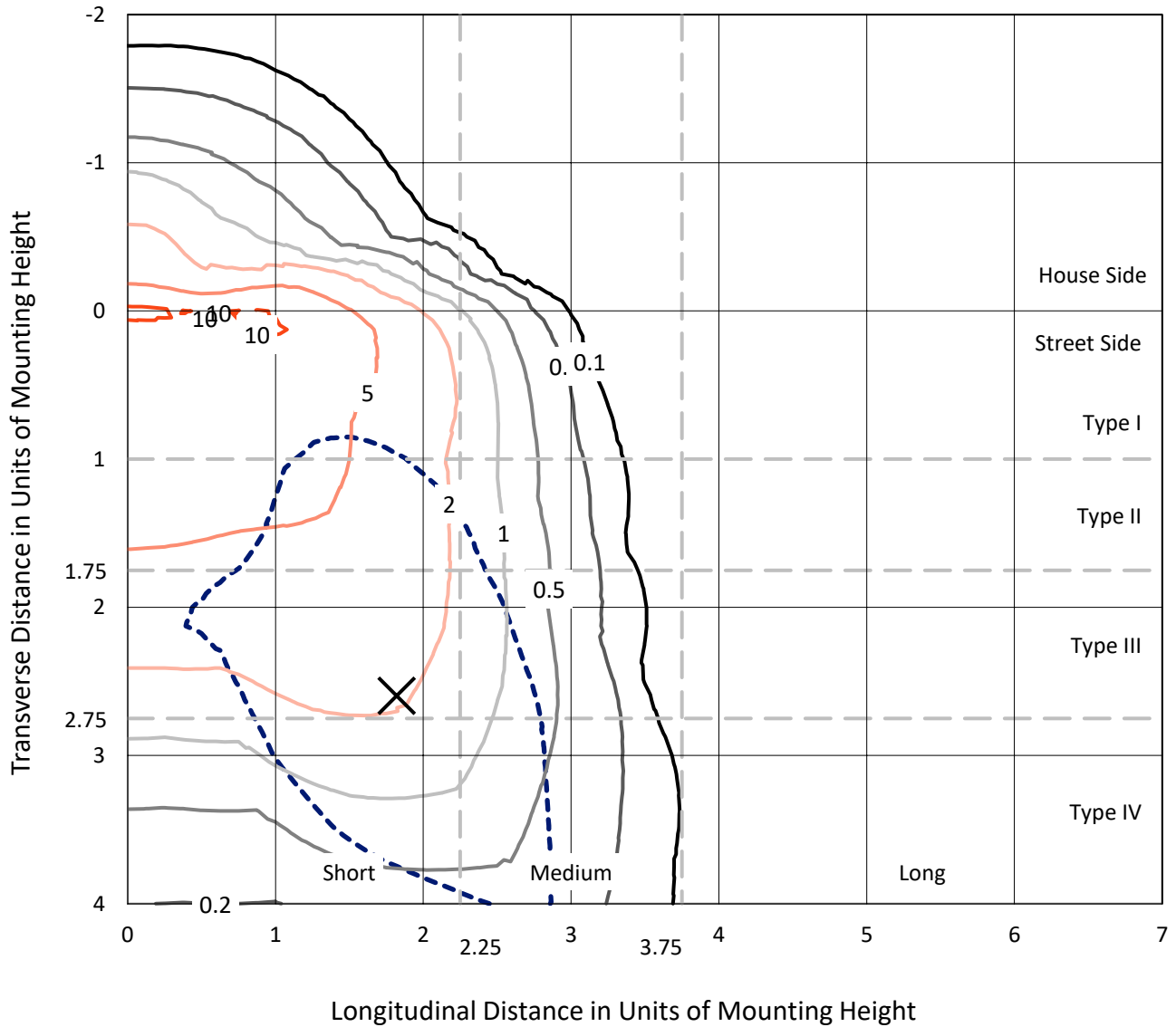
Input Watts (W): 440.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

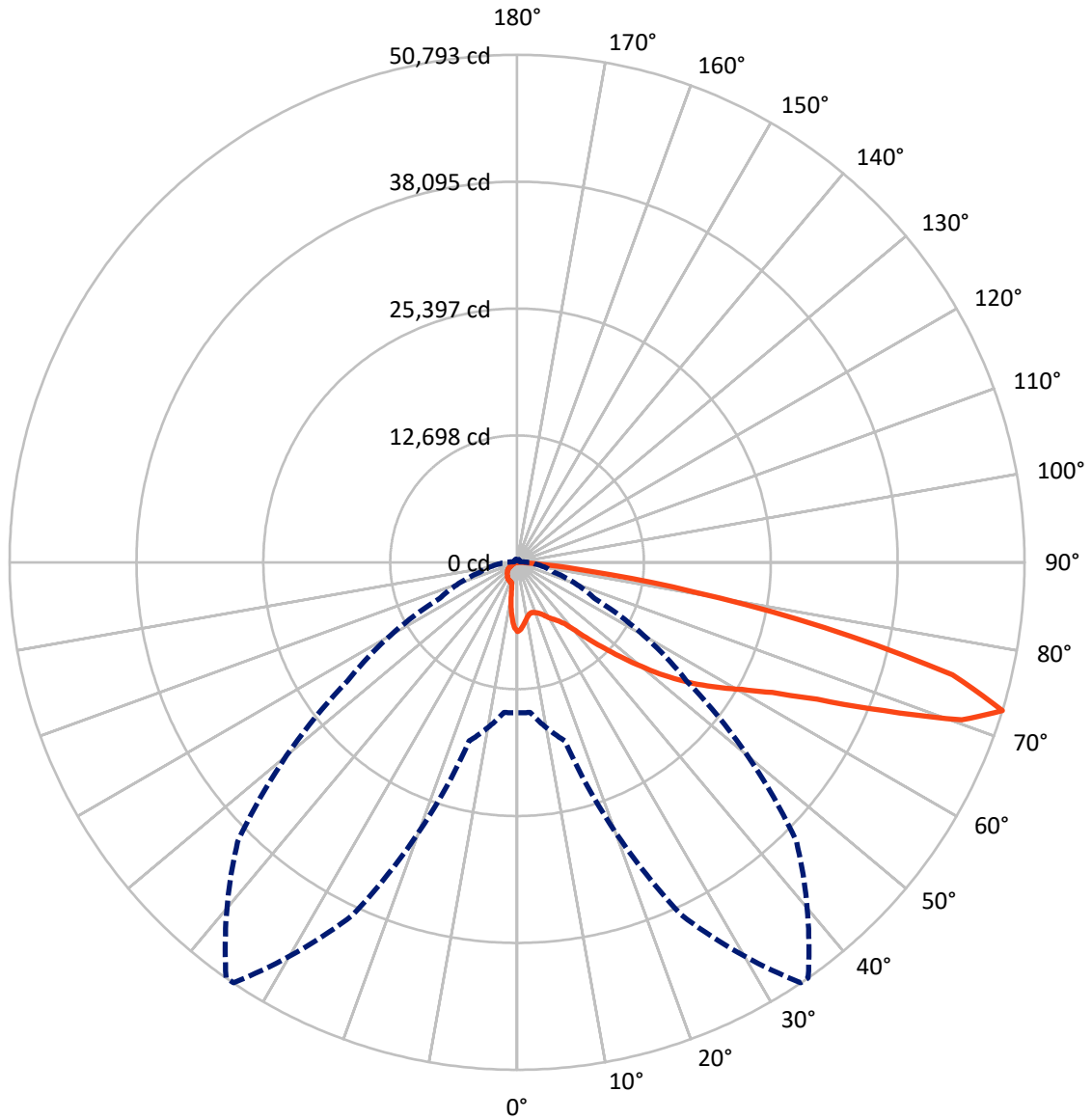
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5389.8	0.0	5389.8
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	42500.3	0.0	42500.3
	% Fixture	88.7	0.0	88.7
Total	Lumens	47890.1	0.0	47890.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	570.4	1.2
10°-20°	1334.3	2.8
20°-30°	2167.5	4.5
30°-40°	3616.4	7.6
40°-50°	6842.4	14.3
50°-60°	10872.6	22.7
60°-70°	13450.1	28.1
70°-80°	8360.7	17.5
80°-90°	675.7	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°	47890.1	100.0
0°-180°	47890.1	100.0

Coefficient of Utilization



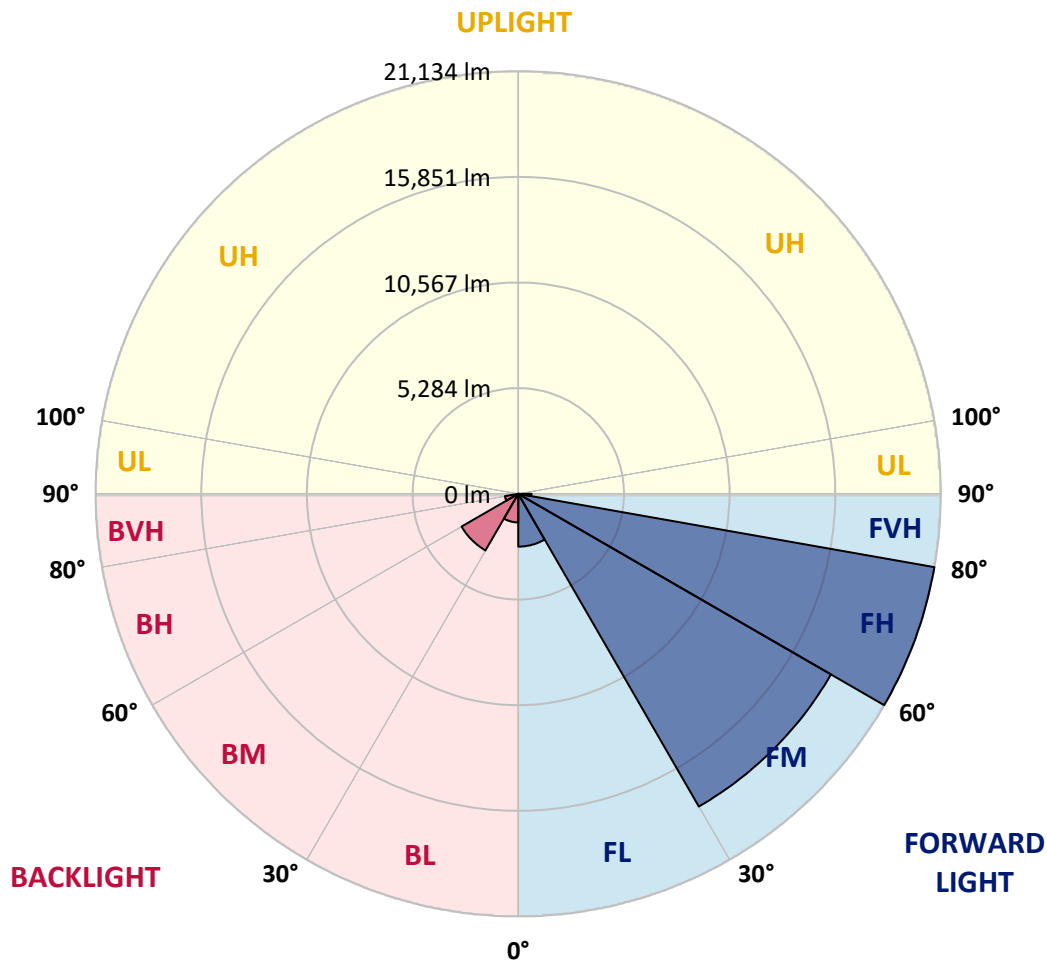
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2640.0	5.5			
FM (30°-60°)	18059.3	37.7			
FH (60°-80°)	21134.5	44.1			G5
FVH (80°-90°)	666.5	1.4			G4/750
BL (0°-30°)	1432.2	3.0	B3/2500		
BM (30°-60°)	3272.1	6.8	B3/5000		
BH (60°-80°)	676.3	1.4	B2/1000		G2/1000
BVH (80°-90°)	9.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9
2.5°	6632.1	6688.2	6698.8	6716.3	6716.3	6737.3	6772.5	6821.6	6902.2	6944.4	6972.5
5°	6112.8	6154.8	6207.5	6249.6	6330.3	6340.9	6477.7	6611.0	6797.0	6937.4	7035.6
7.5°	5589.9	5639.0	5709.2	5810.9	5916.2	5947.8	6154.8	6379.4	6674.2	6937.4	7102.3
10°	5221.5	5224.9	5288.1	5389.9	5558.3	5596.9	5849.6	6168.9	6537.3	6895.3	7165.5
12.5°	5014.4	5039.0	5067.1	5144.3	5305.7	5330.2	5600.4	5975.9	6400.5	6870.7	7239.2
15°	5014.4	5031.9	5049.5	5088.1	5218.0	5239.0	5477.6	5853.1	6330.3	6881.2	7358.5
17.5°	5067.1	5095.1	5081.1	5126.7	5263.6	5277.6	5488.2	5818.0	6326.8	6947.9	7540.9
20°	5193.4	5214.4	5186.4	5214.4	5351.3	5379.3	5596.9	5884.6	6386.5	7063.7	7769.0
22.5°	5393.3	5403.9	5337.3	5358.3	5498.6	5533.8	5786.4	6074.2	6530.3	7249.6	8074.3
25°	5646.0	5667.1	5565.3	5589.9	5723.2	5765.3	6056.6	6358.4	6758.4	7505.9	8463.8
27.5°	5937.3	5947.8	5860.1	5856.5	6028.5	6088.2	6383.0	6709.2	7063.7	7828.6	8955.0
30°	6270.6	6302.2	6218.1	6204.0	6421.5	6470.6	6761.9	7140.9	7512.8	8313.0	9653.3
32.5°	6533.9	6558.4	6509.3	6544.3	6765.4	6804.1	7221.6	7751.5	8218.1	9000.6	10604.3
35°	6912.8	6926.8	6814.5	6877.7	7130.4	7228.6	7849.8	8607.6	9106.0	9863.9	11846.5
37.5°	8284.9	8284.9	7807.6	7495.3	7737.4	7825.2	8709.4	9684.9	10200.8	11021.9	13411.5
40°	10183.3	10151.6	9453.4	8814.7	8783.1	8955.0	9934.1	11042.9	11614.9	12411.4	15173.1
42.5°	12208.0	12158.9	11207.9	10576.3	10471.0	10530.6	11348.2	12716.8	13299.3	14106.4	17068.0
45°	14004.6	13990.5	13120.3	12271.1	12081.6	12271.1	13113.2	14674.8	15092.4	15941.5	18959.3
47.5°	15509.9	15509.9	14874.8	14320.4	14222.1	14334.4	15502.9	16846.9	16808.3	17896.1	20801.6
50°	17243.4	17229.3	16625.8	16387.2	16489.0	16646.8	18254.0	19134.8	18583.9	19815.5	22447.3
52.5°	18457.5	18541.7	18334.7	18296.1	18815.4	19089.2	21047.2	21373.5	20173.4	21636.7	23678.9
55°	19419.0	19517.2	19755.8	20026.0	21026.1	21384.1	23752.6	23496.5	21503.4	23215.7	24387.8
57.5°	20780.5	20640.1	21008.6	21542.0	23159.7	23591.3	26374.0	25500.2	22573.7	24496.6	24465.0
60°	22433.3	22454.4	22517.5	23191.2	25289.6	25844.0	28956.6	27395.1	23261.5	25282.6	23608.8
62.5°	24419.4	24451.0	24580.8	25616.0	28149.5	28672.3	31707.7	28946.0	23577.3	25061.6	21398.1
65°	24282.6	24415.9	25865.2	29405.7	32497.2	33013.0	34918.5	30033.8	23100.0	23040.4	17422.3
67.5°	22120.9	22338.5	24763.3	33932.4	39052.1	39627.5	38799.4	30247.9	21040.2	17917.1	11365.8
70°	19285.7	19362.9	22278.9	38002.9	46642.1	47224.6	42273.4	27893.3	15966.1	9993.8	5091.6
72.5°	15060.7	15078.4	18499.6	38946.8	50761.7	50793.3	39546.9	20706.8	8586.6	3838.9	1768.5
75°	10758.7	10653.4	12390.4	31584.9	44659.5	45017.4	29647.8	9713.0	3280.9	1814.1	880.8
77.5°	5768.9	5884.6	7011.1	18731.3	30851.5	31462.1	16176.7	2800.2	1670.3	1235.2	582.5
80°	1782.6	1880.9	2873.9	8576.1	17475.0	17843.4	5997.0	1245.7	1165.0	880.8	382.5
82.5°	561.5	582.5	1340.5	3603.8	7253.2	7421.6	1737.0	705.3	796.5	582.5	224.6
85°	161.4	164.9	596.6	1344.0	1793.1	1828.2	487.8	273.7	456.1	361.4	115.8
87.5°	17.5	56.2	224.6	224.6	158.0	154.4	52.7	59.7	129.9	45.6	21.0
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°	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9	6940.9
2.5°	6954.9	6958.4	6912.8	6835.6	6751.4	6681.2	6593.5	6523.3	6474.2	6460.2	6484.7
5°	7004.0	6979.4	6849.7	6614.5	6333.8	6091.7	5821.5	5607.5	5467.0	5407.4	5428.5
7.5°	7077.7	7007.5	6723.3	6260.1	5723.2	5246.1	4761.7	4386.3	4147.7	4028.4	4045.9
10°	7140.9	7000.5	6512.7	5747.8	4926.7	4203.8	3551.1	3098.5	2845.8	2726.5	2730.0
12.5°	7200.5	6997.1	6239.1	5140.8	4028.4	3144.1	2537.1	2312.5	2242.3	2217.7	2210.7
15°	7312.9	7007.5	5895.2	4445.9	3133.5	2375.6	2154.5	2151.1	2165.1	2158.0	2154.5
17.5°	7467.2	7018.1	5505.7	3709.1	2417.8	2094.9	2084.3	2115.9	2137.0	2126.5	2123.0
20°	7667.2	7060.2	5091.6	2979.2	2077.4	2024.7	2049.3	2077.4	2094.9	2077.4	2073.9
22.5°	7948.0	7133.9	4638.9	2393.2	1968.6	1982.6	2003.7	2035.2	2052.8	2028.3	2024.7
25°	8291.8	7249.6	4193.3	2080.9	1915.9	1933.5	1965.0	2000.2	2021.2	1996.6	1993.1
27.5°	8737.5	7435.7	3782.8	2010.6	1863.3	1873.8	1919.4	1972.1	2000.2	1968.6	1968.6
30°	9383.2	7740.9	3428.3	2042.2	1831.7	1807.2	1870.3	1944.0	1975.6	1947.5	1944.0
32.5°	10239.3	8172.5	3210.8	2091.4	1817.6	1730.0	1789.6	1884.4	1936.9	1919.4	1919.4
35°	11362.2	8828.7	3126.6	2147.6	1807.2	1649.2	1691.4	1793.1	1884.4	1901.9	1901.9
37.5°	12723.7	9741.1	3151.2	2172.1	1775.6	1582.6	1603.6	1691.4	1810.7	1866.8	1880.9
40°	14271.3	10804.3	3291.5	2147.6	1740.4	1526.4	1529.9	1596.6	1701.9	1786.1	1814.1
42.5°	15867.8	12046.5	3551.1	2056.3	1708.9	1477.3	1466.8	1512.4	1582.6	1642.3	1666.8
45°	17387.3	13323.8	3807.3	1930.0	1670.3	1428.1	1403.6	1421.2	1435.2	1459.8	1473.7
47.5°	18713.7	14222.1	3733.7	1814.1	1617.7	1372.1	1329.9	1322.9	1280.8	1277.3	1273.8
50°	19629.6	14418.7	3316.1	1698.3	1540.5	1308.8	1242.2	1200.1	1126.4	1091.3	1094.8
52.5°	19920.8	13643.2	2709.0	1582.6	1414.2	1224.7	1130.0	1063.2	972.0	940.4	937.0
55°	19534.8	12123.7	2165.1	1442.2	1238.7	1112.3	1007.1	919.3	845.7	807.1	807.1
57.5°	18590.8	10190.2	1712.4	1277.3	1052.7	986.0	880.8	793.0	729.9	691.3	684.3
60°	17025.9	8091.9	1354.5	1080.8	898.3	849.2	740.4	684.3	628.1	582.5	571.9
62.5°	14650.2	5775.9	1063.2	856.2	750.9	694.7	631.6	589.5	522.9	459.7	449.2
65°	11432.4	3533.6	821.1	628.1	603.5	575.4	536.9	498.3	417.6	354.4	343.9
67.5°	7211.1	1673.8	586.0	473.8	477.2	463.2	445.7	414.1	354.4	298.3	291.2
70°	3175.7	810.6	386.0	361.4	354.4	354.4	368.5	357.9	301.8	249.2	238.6
72.5°	1080.8	435.1	287.7	273.7	256.1	252.7	308.8	298.3	242.1	193.0	182.4
75°	565.0	291.2	210.5	196.5	154.4	185.9	245.6	231.5	171.9	126.3	115.8
77.5°	368.5	207.0	143.9	126.3	87.7	122.8	182.4	161.4	101.8	63.1	56.2
80°	231.5	136.8	84.3	59.7	42.1	66.6	98.3	70.2	38.6	14.0	10.6
82.5°	122.8	70.2	31.6	21.0	17.5	21.0	24.6	17.5	7.0	0.0	0.0
85°	49.1	24.6	10.6	7.0	3.5	0.0	7.0	3.5	0.0	0.0	0.0
87.5°	17.5	3.5	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)