

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: P885434

Luminaire Tested: **NAV-SB6D-722-U-SL4**

Issue Date: 10/7/2024

**Test Information**

Test Method: LM-79-08  
Report Number: P885434  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 10/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: LUMARK  
Catalog Number: NAV-SB6D-722-U-SL4  
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

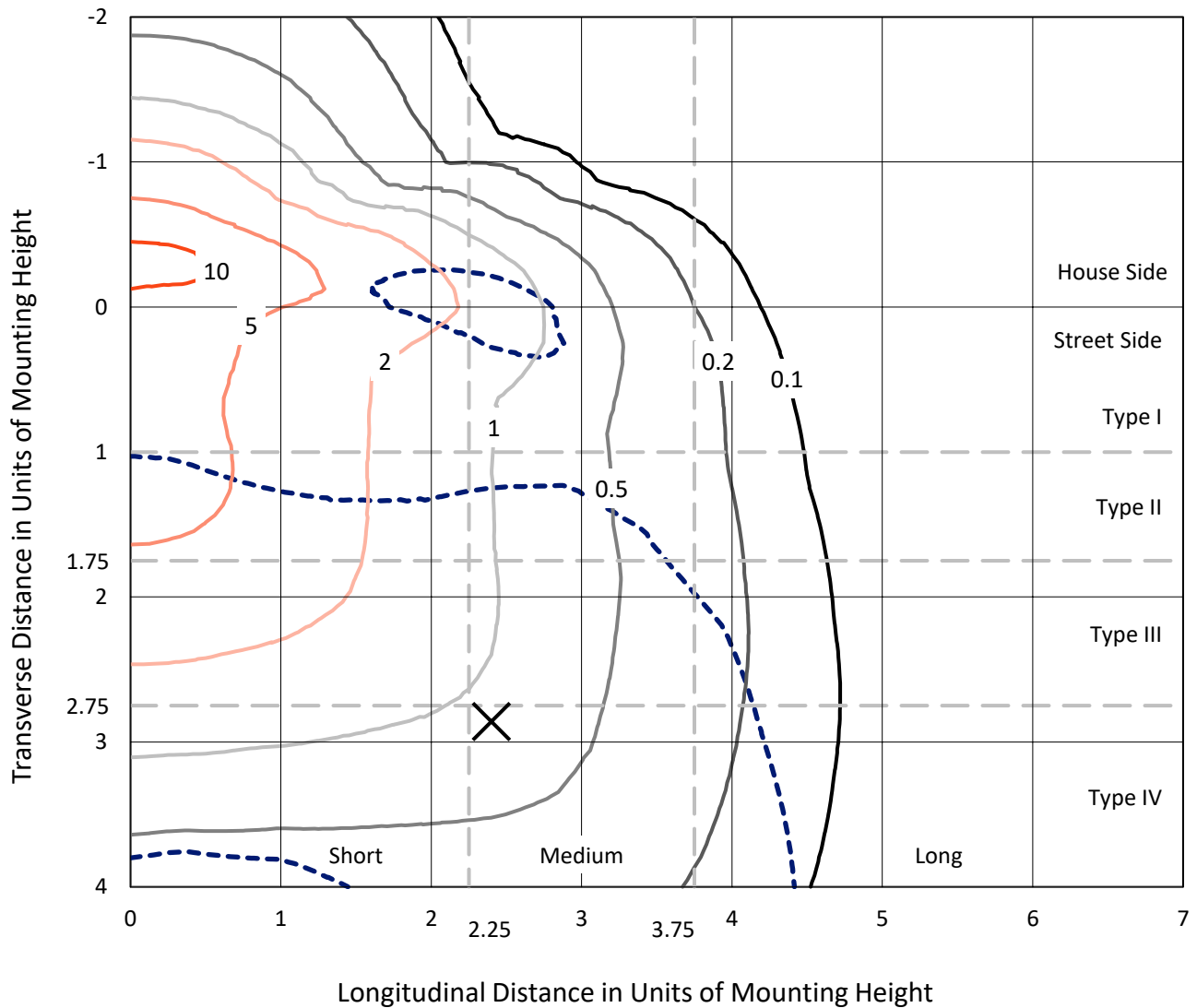
Lumens per Lamp: N/A  
Luminaire Lumens: 48789 lumens  
Efficiency: N/A  
Efficacy: 110.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B4 - U0 - G5  
  
Input Watts (W): 440.1  
Input Voltage (V): 120.0  
Input Current (Ain): 3.68  
Voltage Rise (V): NR  
Power Factor: 0.998  
Total Harmonic Distortion (THDi): 2.542  
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

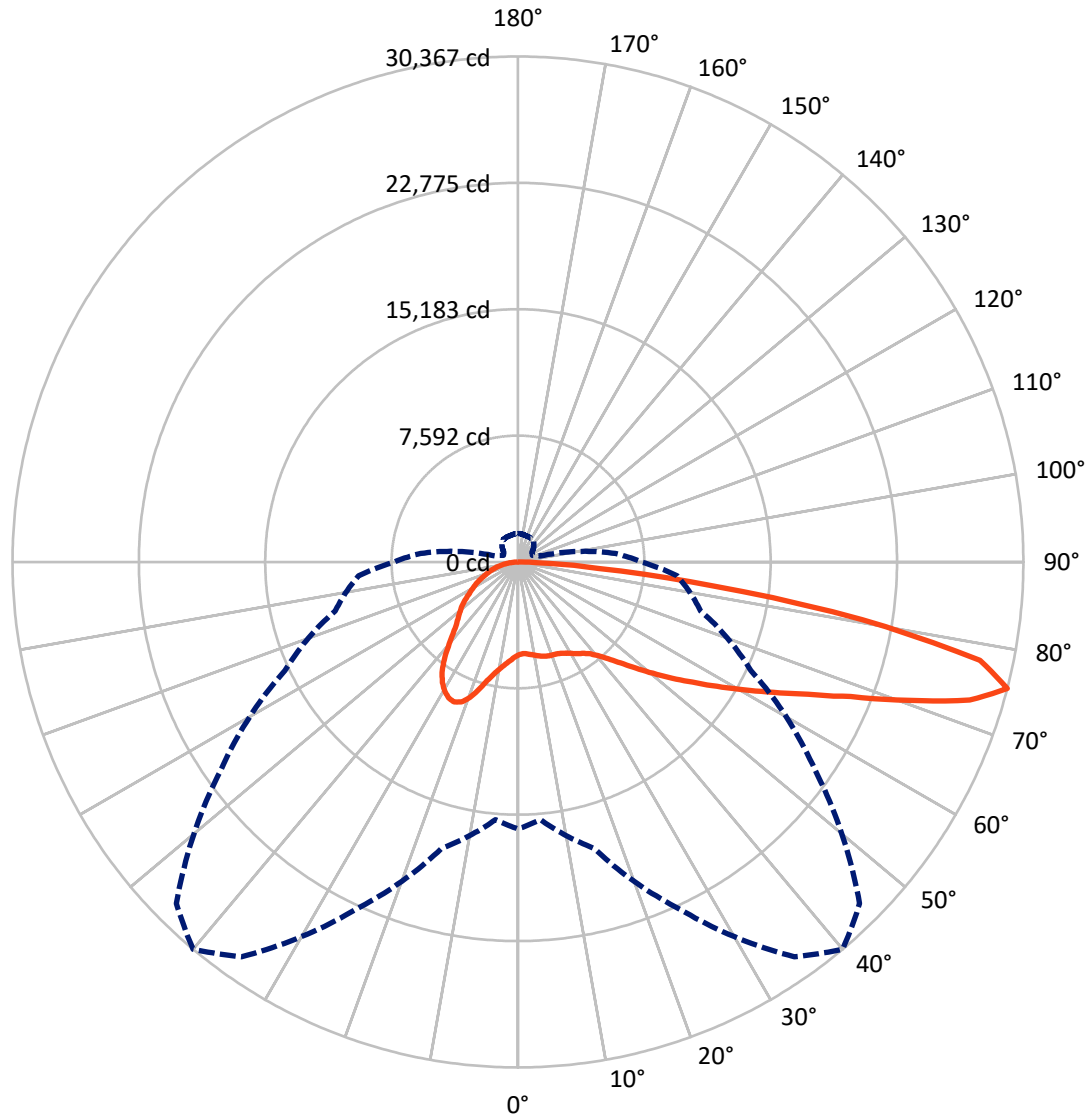
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	15116.5	0.0	15116.5
	% Fixture	31.0	0.0	31.0
<b>Street Side</b>	Lumens	33672.5	0.0	33672.5
	% Fixture	69.0	0.0	69.0
<b>Total</b>	Lumens	48789.0	0.0	48789.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	556.9	1.1
10°-20°	1869.8	3.8
20°-30°	3414.0	7.0
30°-40°	4842.0	9.9
40°-50°	6538.2	13.4
50°-60°	8795.7	18.0
60°-70°	11163.7	22.9
70°-80°	10131.8	20.8
80°-90°	1476.9	3.0
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°	48789.0	100.0
0°-180°	48789.0	100.0

**Coefficient of Utilization**



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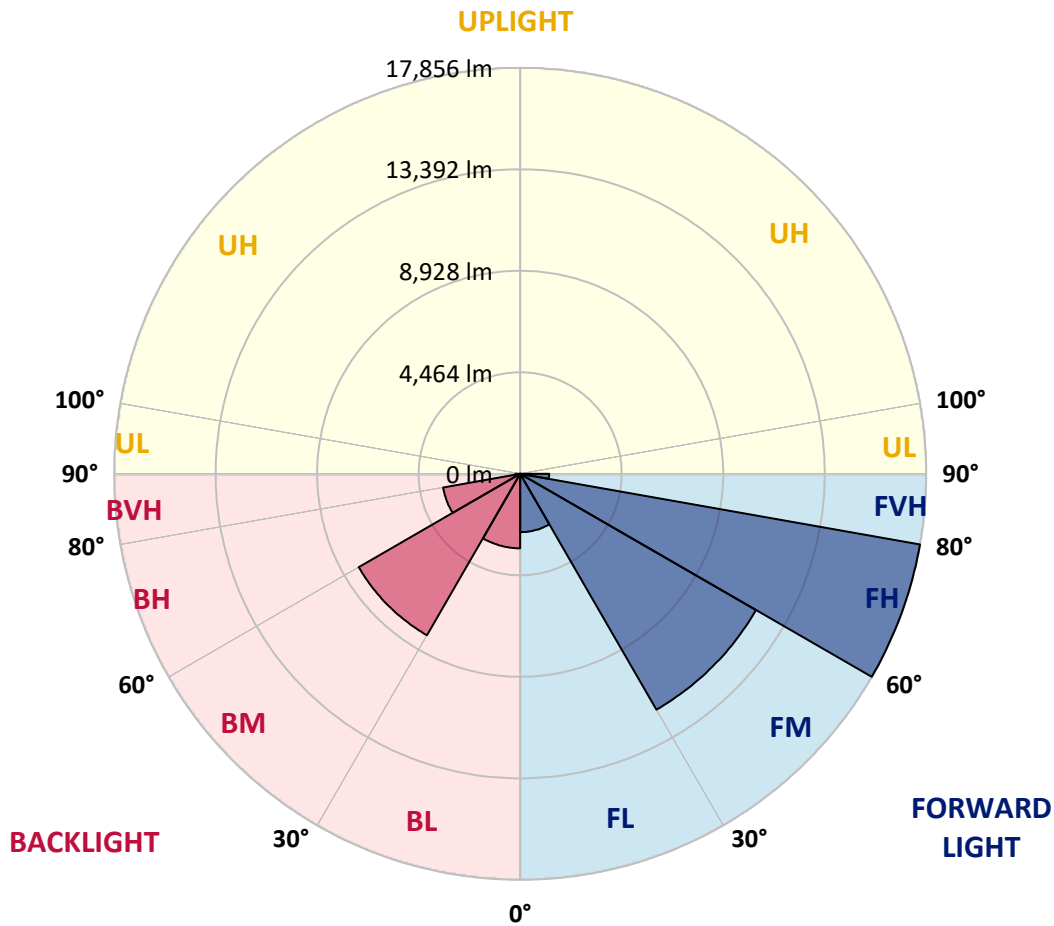
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2566.4	5.3			
FM (30°-60°)	11976.6	24.5			
FH (60°-80°)	17856.0	36.6			G5
FVH (80°-90°)	1273.6	2.6			G5
BL (0°-30°)	3274.4	6.7	B4/5000		
BM (30°-60°)	8199.3	16.8	B4/8500		
BH (60°-80°)	3439.4	7.0	B4/5000		G4/5000
BVH (80°-90°)	203.3	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G5**

Type IV Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1
2.5°	5493.7	5524.7	5517.0	5506.6	5506.6	5509.2	5506.6	5524.7	5542.9	5561.0	5589.4
5°	5550.6	5581.7	5566.1	5553.2	5542.9	5540.3	5532.5	5529.9	5540.3	5563.6	5602.4
7.5°	5661.9	5692.9	5669.7	5646.4	5625.7	5615.3	5605.0	5589.4	5581.7	5594.6	5649.0
10°	5786.1	5817.2	5788.7	5747.3	5713.6	5700.7	5690.4	5674.8	5664.5	5672.2	5731.8
12.5°	5910.3	5941.4	5902.6	5845.6	5801.6	5793.9	5780.9	5775.8	5773.2	5770.6	5830.1
15°	6026.8	6052.6	6003.5	5936.2	5889.6	5876.7	5863.7	5871.5	5884.4	5900.0	5967.2
17.5°	6117.3	6143.2	6070.8	5982.8	5938.8	5933.6	5925.8	5951.7	5987.9	6026.8	6109.6
20°	6200.1	6226.0	6132.9	6013.8	5962.1	5962.1	5964.7	6019.0	6070.8	6127.7	6241.5
22.5°	6316.6	6337.3	6223.4	6060.4	5985.4	5990.5	6011.2	6065.6	6130.3	6207.9	6365.7
25°	6490.0	6505.5	6365.7	6148.4	6063.0	6078.5	6096.6	6122.5	6184.6	6275.2	6487.4
27.5°	6769.4	6782.4	6598.6	6303.6	6174.3	6200.1	6226.0	6207.9	6236.4	6314.0	6585.7
30°	7162.8	7170.5	6937.6	6546.9	6363.2	6376.1	6381.3	6306.2	6251.9	6314.0	6655.6
32.5°	7628.5	7626.0	7349.1	6841.9	6577.9	6565.0	6521.0	6373.5	6246.7	6301.1	6717.7
35°	8350.5	8322.1	7964.9	7255.9	6821.2	6741.0	6637.5	6448.6	6272.6	6288.1	6772.0
37.5°	9546.0	9458.1	8963.8	7933.9	7183.5	6979.0	6826.4	6570.2	6329.5	6282.9	6836.7
40°	10894.2	10783.0	10239.5	8862.9	7726.9	7398.2	7152.4	6743.6	6422.7	6306.2	6932.5
42.5°	12493.4	12335.6	11750.8	9957.5	8415.2	7939.1	7569.0	6963.5	6559.8	6381.3	7061.8
45°	14457.5	14247.9	13419.8	11191.8	9282.1	8648.1	8153.9	7297.3	6769.4	6526.2	7255.9
47.5°	16442.3	16494.0	15316.6	12604.7	10322.3	9522.7	8886.2	7799.3	7074.8	6759.1	7569.0
50°	18551.2	18587.5	17203.0	14170.3	11502.3	10511.2	9709.1	8360.9	7499.2	7090.3	8037.4
52.5°	20197.0	20202.2	18916.1	15808.3	12731.5	11598.1	10596.6	9002.6	7990.8	7530.2	8661.0
55°	21226.9	21214.0	20116.8	17358.3	14144.4	12739.3	11580.0	9732.4	8591.2	8047.8	9445.1
57.5°	21974.8	21936.0	20944.9	18691.0	15650.4	14087.5	12692.7	10560.4	9300.2	8663.6	10477.6
60°	22259.4	22236.1	21506.4	19842.5	17234.1	15578.0	13976.2	11486.8	10105.0	9390.8	11805.1
62.5°	22368.1	22412.1	22057.6	20957.8	18929.0	17228.9	15386.5	12594.3	11010.7	10213.7	13205.0
65°	22751.1	22831.3	22758.8	22417.3	20843.9	19161.9	17257.4	13911.5	11999.2	11096.1	14667.1
67.5°	23509.3	23589.5	23620.6	24164.0	23183.2	21571.1	19591.5	15552.1	13155.9	12012.1	15766.9
70°	23491.2	23467.9	24016.5	25553.6	26112.5	24906.6	22738.1	17570.5	14535.1	12772.9	15906.6
72.5°	21382.2	21195.9	22492.3	25538.0	28550.1	28389.7	26580.9	20173.7	15725.5	12866.1	13802.8
75°	16041.2	15544.3	17834.4	23015.0	28956.4	30366.7	29023.7	21788.5	15443.4	11367.8	9605.6
77.5°	6860.0	6360.6	9059.5	17037.4	25915.8	28387.1	26782.7	19009.3	12327.8	7517.3	4717.4
80°	1795.9	1793.3	2737.8	7724.3	17624.8	20963.0	18390.8	12276.1	7043.7	2686.0	1301.6
82.5°	742.7	724.6	1006.6	3004.3	8611.9	11763.7	9600.4	5475.6	2543.7	727.1	432.1
85°	276.9	274.3	489.1	1037.7	3038.0	4851.9	3511.5	1399.9	634.0	354.5	194.1
87.5°	77.6	75.0	106.1	359.7	740.1	1123.1	600.3	230.3	178.6	139.7	56.9
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°	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1	5579.1
2.5°	5597.2	5610.1	5633.4	5651.5	5674.8	5700.7	5736.9	5760.2	5783.5	5799.0	5788.7
5°	5620.5	5649.0	5708.5	5768.0	5837.9	5902.6	5977.6	6031.9	6075.9	6088.9	6094.0
7.5°	5672.2	5718.8	5819.7	5920.7	6031.9	6138.0	6246.7	6339.9	6414.9	6443.4	6446.0
10°	5762.8	5824.9	5967.2	6109.6	6257.1	6420.1	6559.8	6694.4	6800.5	6844.5	6847.1
12.5°	5876.7	5954.3	6140.6	6337.3	6541.7	6766.8	6948.0	7113.6	7245.6	7305.1	7305.1
15°	6024.2	6125.1	6363.2	6627.1	6927.3	7240.4	7470.7	7654.4	7801.9	7874.4	7869.2
17.5°	6184.6	6319.2	6619.3	7017.8	7447.4	7858.9	8128.0	8262.5	8415.2	8485.1	8482.5
20°	6339.9	6505.5	6935.0	7514.7	8086.6	8523.9	8741.3	8777.5	8787.8	8795.6	8816.3
22.5°	6500.3	6722.9	7331.0	8140.9	8754.2	9057.0	9088.0	8932.7	8715.4	8614.5	8642.9
25°	6676.3	6971.3	7848.5	8831.8	9328.7	9364.9	9126.8	8749.0	8337.6	8148.7	8177.1
27.5°	6847.1	7258.5	8469.6	9491.7	9742.7	9424.4	8912.0	8376.4	7879.6	7680.3	7703.6
30°	7017.8	7587.1	9155.3	10068.8	9931.6	9276.9	8573.1	7975.3	7475.9	7266.3	7289.6
32.5°	7191.2	7970.1	9944.5	10485.4	9898.0	8963.8	8151.3	7525.0	7085.1	6865.2	6893.6
35°	7387.9	8441.1	10692.4	10713.1	9672.8	8503.2	7594.9	6986.8	6603.8	6427.9	6466.7
37.5°	7644.1	9038.8	11352.3	10770.0	9279.5	7827.8	6904.0	6350.2	6034.5	5954.3	6011.2
40°	7962.4	9758.2	11856.9	10679.4	8697.3	7007.5	6148.4	5705.9	5527.3	5545.4	5607.6
42.5°	8376.4	10563.0	12211.4	10446.6	7887.3	6161.3	5485.9	5289.3	5374.7	5447.1	5514.4
45°	8914.6	11398.8	12431.3	10050.6	6971.3	5444.5	5095.2	5141.8	5206.5	5214.2	5266.0
47.5°	9603.0	12245.0	12576.2	9452.9	6037.1	4939.9	4846.8	4857.1	4844.2	4789.8	4831.2
50°	10462.1	13067.9	12705.6	8661.0	5242.7	4624.2	4500.0	4463.8	4285.2	4109.3	4132.6
52.5°	11440.2	13823.5	12760.0	7677.7	4624.2	4360.3	4158.4	3930.7	3596.9	3542.6	3560.7
55°	12527.1	14522.2	12620.2	6469.3	4104.1	4021.3	3715.9	3441.6	3405.4	3358.8	3366.6
57.5°	13826.1	15275.2	12335.6	5121.1	3571.0	3625.4	3327.8	3358.8	3294.1	3221.7	3208.8
60°	15246.7	16054.1	11836.2	3891.9	3019.8	3131.1	3226.9	3224.3	3206.2	3146.6	3125.9
62.5°	16525.1	16566.5	10852.8	2981.0	2535.9	2748.1	3009.5	3006.9	2991.4	2957.7	2944.8
65°	17285.9	16488.8	9212.2	2347.0	2137.4	2432.4	2714.5	2735.2	2737.8	2735.2	2735.2
67.5°	17151.3	15580.6	6960.9	1868.3	1808.8	2111.6	2422.1	2450.6	2471.3	2476.4	2481.6
70°	15629.7	13585.4	4538.8	1490.5	1516.4	1829.5	2145.2	2173.7	2191.8	2212.5	2222.8
72.5°	12182.9	9988.5	2598.1	1205.9	1260.2	1586.3	1870.9	1904.5	1914.9	1953.7	1969.2
75°	7424.1	5874.1	1402.5	949.7	1035.1	1356.0	1599.2	1638.0	1656.1	1702.7	1707.9
77.5°	3529.6	2543.7	799.6	740.1	833.2	1107.5	1350.8	1394.8	1345.6	1371.5	1350.8
80°	1192.9	944.5	504.6	564.1	636.6	864.3	1081.7	1125.7	1022.1	1017.0	1006.6
82.5°	416.6	383.0	320.9	375.2	411.4	618.5	817.7	874.6	760.8	758.2	722.0
85°	163.0	155.3	178.6	204.4	245.8	380.4	538.2	566.7	468.4	377.8	372.6
87.5°	33.6	36.2	44.0	46.6	75.0	132.0	194.1	238.1	188.9	160.4	147.5
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)