

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: STREETWORKS

Report Number: P968792

Luminaire Tested: **NVN-SB5C-735-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P968792
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB5C-735-U-T3
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38802.4 lumens
Efficiency: N/A
Efficacy: 155.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

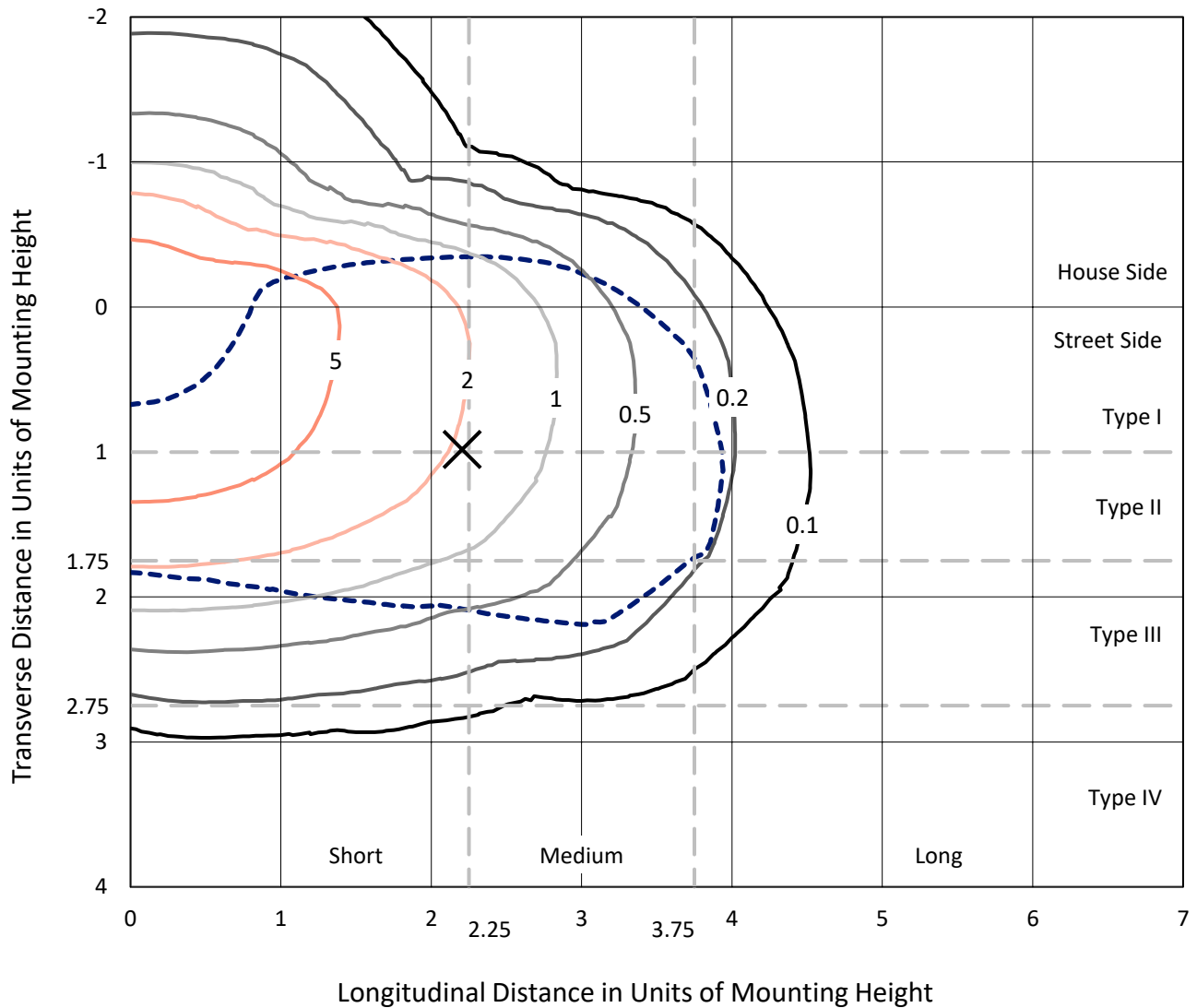
Input Watts (W): 249.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

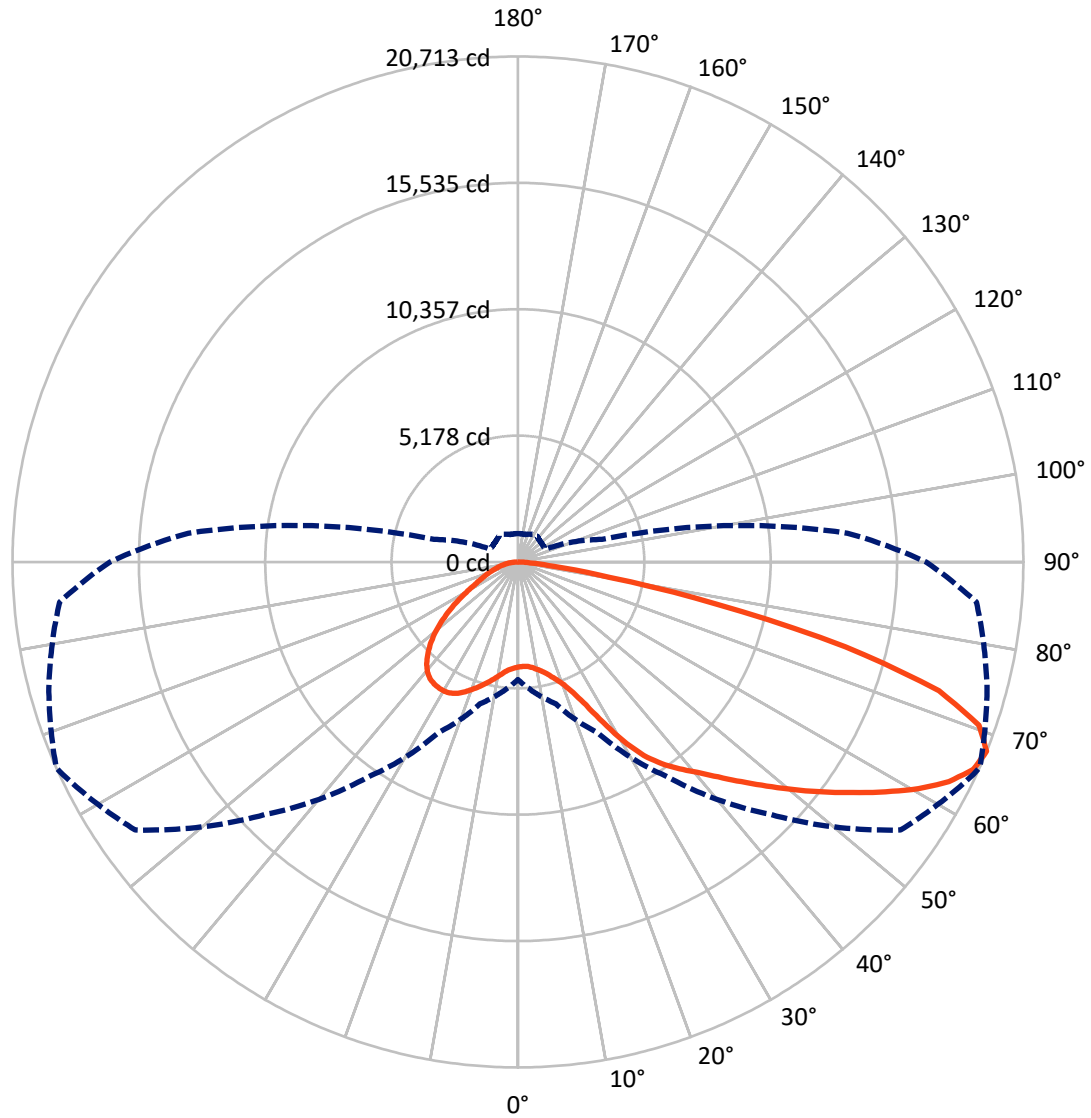
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9648.1	0.0	9648.1
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	29154.3	0.0	29154.3
	% Fixture	75.1	0.0	75.1
Total	Lumens	38802.4	0.0	38802.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	426.7	1.1
10°-20°	1409.7	3.6
20°-30°	2717.2	7.0
30°-40°	4764.3	12.3
40°-50°	7082.9	18.3
50°-60°	8978.3	23.1
60°-70°	8785.0	22.6
70°-80°	4190.5	10.8
80°-90°	447.9	1.2
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°	38802.4	100.0
0°-180°	38802.4	100.0

Coefficient of Utilization



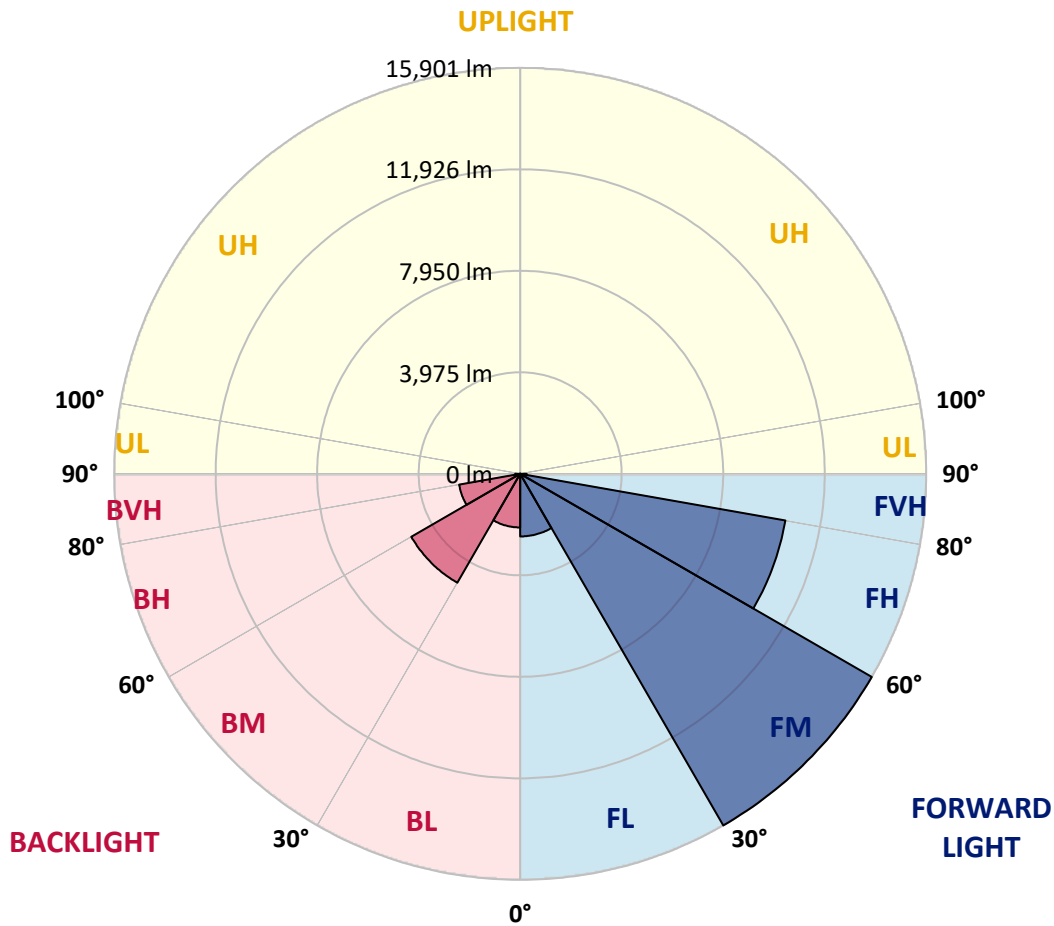
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2451.9	6.3			
FM (30°-60°)	15900.9	41.0			
FH (60°-80°)	10547.6	27.2			G4/12000
FVH (80°-90°)	253.9	0.7			G3/500
BL (0°-30°)	2101.7	5.4	B3/2500		
BM (30°-60°)	4924.5	12.7	B3/5000		
BH (60°-80°)	2428.0	6.3	B3/2500		G3/2500
BVH (80°-90°)	193.9	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7
2.5°	4258.9	4283.3	4277.2	4267.0	4264.9	4269.0	4275.2	4281.3	4279.3	4289.4	4305.7
5°	4246.6	4271.1	4269.0	4269.0	4277.2	4293.5	4303.7	4313.9	4303.7	4316.0	4338.3
7.5°	4254.8	4273.1	4281.3	4289.4	4309.8	4340.4	4364.9	4387.3	4375.0	4389.4	4417.9
10°	4358.7	4373.1	4381.2	4381.2	4395.4	4430.0	4454.5	4495.3	4485.1	4507.5	4544.2
12.5°	4548.3	4562.6	4562.6	4554.5	4564.6	4587.1	4595.3	4640.1	4621.7	4658.4	4695.1
15°	4780.8	4809.3	4786.9	4772.6	4776.7	4799.2	4797.1	4831.7	4813.4	4843.9	4876.5
17.5°	5037.7	5074.4	5037.7	5035.6	5027.4	5051.9	5054.0	5084.5	5051.9	5074.4	5096.7
20°	5341.4	5392.3	5361.8	5372.0	5353.7	5363.8	5374.0	5418.9	5367.9	5384.2	5378.1
22.5°	5769.5	5830.7	5798.1	5836.8	5824.6	5816.5	5814.4	5893.9	5814.4	5820.5	5761.3
25°	6393.3	6466.7	6409.6	6462.7	6462.7	6489.2	6519.7	6621.7	6489.2	6450.4	6297.6
27.5°	7314.8	7388.3	7276.2	7308.8	7298.5	7363.8	7331.2	7584.0	7441.3	7378.1	7070.2
30°	8424.0	8554.3	8342.4	8334.2	8324.0	8428.0	8474.9	8642.1	8497.4	8434.1	8063.1
32.5°	9622.7	9759.2	9506.5	9433.1	9394.3	9457.6	9418.8	9553.3	9453.5	9355.6	8896.9
35°	10890.7	11025.3	10784.7	10642.1	10487.1	10354.6	10216.0	10250.6	10156.8	10008.0	9533.0
37.5°	12089.5	12336.2	12081.4	11928.4	11643.0	11384.1	10996.7	10835.7	10748.0	10611.4	10132.3
40°	13310.6	13451.4	13257.7	13127.2	12817.3	12411.6	11791.8	11451.4	11333.1	11200.6	10794.9
42.5°	14209.8	14344.3	14240.3	14150.6	13908.0	13437.0	12635.9	12209.8	12038.5	11889.7	11545.2
45°	14923.3	15023.2	14957.9	14990.5	14886.6	14430.0	13510.5	13023.2	12845.8	12664.4	12393.3
47.5°	15210.8	15316.8	15420.7	15614.4	15791.8	15455.4	14450.3	13903.9	13716.3	13530.8	13263.8
50°	15178.1	15286.2	15587.9	15999.7	16550.2	16438.0	15441.1	14841.8	14668.5	14456.4	14209.8
52.5°	14917.1	15039.5	15426.9	16111.9	16988.5	17174.0	16450.3	15810.1	15647.0	15394.3	15147.6
55°	14232.1	14305.6	14886.6	15857.1	17092.5	17687.8	17439.0	16841.7	16678.6	16325.9	16056.8
57.5°	12962.0	13068.0	13914.2	15170.0	16831.5	18036.4	18307.5	17926.3	17769.3	17261.7	16980.4
60°	11304.6	11473.8	12442.2	14016.1	16166.9	18034.4	19096.5	18992.5	18862.0	18183.2	17889.6
62.5°	9429.0	9624.8	10556.4	12385.1	15004.9	17522.7	19589.9	19885.5	19818.2	19033.3	18658.2
65°	7241.4	7376.0	8303.6	10275.0	13196.5	16423.8	19647.0	20495.1	20507.3	19679.6	19059.8
67.5°	4821.5	5208.8	6014.2	7710.4	10774.5	14627.7	19145.5	20594.9	20713.2	19901.8	18857.9
70°	2352.7	2862.3	3651.4	5011.1	7710.4	11873.4	17834.6	19775.4	20038.4	19253.5	17655.1
72.5°	976.5	1141.6	1571.8	2472.9	4426.1	8012.1	15200.5	17553.2	18040.5	17059.9	14843.7
75°	658.5	713.5	899.0	1268.0	2016.3	3951.0	10962.1	13088.4	13873.4	12884.6	10532.0
77.5°	507.7	542.3	654.5	886.8	1198.7	1494.3	5867.4	7887.8	8293.5	7677.8	5480.1
80°	399.5	426.1	489.3	646.3	850.1	799.2	2000.0	3573.9	3808.3	3194.6	1761.5
82.5°	346.6	356.8	350.7	438.3	564.7	466.9	656.5	1319.1	1455.6	1056.1	574.9
85°	250.7	279.3	291.5	271.1	299.7	236.5	269.1	466.9	513.7	458.7	324.1
87.5°	101.9	150.9	185.5	175.4	110.1	67.2	83.5	136.6	157.0	171.3	106.0
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°	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7	4303.7
2.5°	4307.8	4322.0	4332.3	4344.5	4352.7	4364.9	4389.4	4403.6	4405.7	4415.8	4413.8
5°	4346.5	4366.9	4389.4	4422.0	4458.6	4489.2	4536.1	4568.7	4580.9	4591.2	4589.1
7.5°	4430.0	4458.6	4499.4	4556.5	4609.5	4650.3	4707.3	4746.1	4784.8	4799.2	4801.1
10°	4554.5	4595.3	4654.3	4731.8	4788.9	4841.9	4901.0	4933.6	4972.4	4988.7	4996.9
12.5°	4709.4	4752.2	4829.7	4937.7	4990.7	5027.4	5047.8	5039.7	5047.8	5062.1	5066.2
15°	4886.8	4933.6	5021.4	5137.5	5174.2	5141.6	5096.7	5056.0	5049.9	5054.0	5068.2
17.5°	5096.7	5131.5	5233.3	5331.2	5304.7	5170.1	5072.3	5007.0	4974.4	4964.3	4978.5
20°	5390.4	5390.4	5473.9	5535.1	5357.7	5129.4	4976.5	4870.5	4803.2	4774.7	4768.5
22.5°	5747.1	5714.5	5767.5	5724.6	5347.5	5015.2	4803.2	4619.7	4517.8	4477.0	4470.8
25°	6199.7	6161.0	6146.7	5881.7	5274.1	4833.8	4489.2	4267.0	4177.3	4154.8	4158.9
27.5°	6882.7	6784.8	6599.3	5967.2	5139.6	4548.3	4122.2	3916.3	3865.4	3867.4	3873.6
30°	7791.9	7596.2	7141.6	5981.6	4919.4	4144.7	3747.1	3600.3	3575.9	3586.1	3620.7
32.5°	8633.9	8448.4	7696.1	5916.3	4580.9	3749.1	3410.8	3312.9	3276.2	3288.4	3304.7
35°	9294.4	9243.4	8209.8	5824.6	4165.1	3378.1	3109.0	3025.4	2954.0	2937.8	2950.0
37.5°	9918.3	9897.9	8595.1	5696.1	3753.2	3115.2	2866.4	2756.3	2652.4	2595.3	2597.4
40°	10603.3	10582.9	8848.0	5498.4	3388.3	2886.8	2648.3	2503.6	2375.1	2271.1	2281.3
42.5°	11373.9	11253.7	8968.2	5215.0	3078.5	2693.1	2470.9	2275.2	2106.0	2010.1	2016.3
45°	12215.9	11944.7	8966.2	4854.2	2817.5	2515.8	2281.3	2004.1	1847.0	1757.4	1753.3
47.5°	13108.8	12605.2	8856.1	4454.5	2564.7	2320.1	1987.8	1775.7	1671.8	1616.7	1604.4
50°	14030.3	13223.0	8668.5	3995.9	2305.7	2097.9	1804.2	1659.5	1580.0	1529.0	1510.6
52.5°	14896.8	13783.7	8442.3	3476.0	2042.8	1881.7	1722.7	1610.6	1526.9	1470.0	1445.5
55°	15702.1	14266.9	8122.2	2943.9	1828.7	1737.0	1684.0	1590.2	1494.3	1427.1	1400.6
57.5°	16417.6	14580.8	7569.7	2444.4	1675.8	1637.0	1643.2	1555.5	1445.5	1388.4	1351.7
60°	17012.9	14811.1	6752.2	1981.6	1551.4	1539.2	1580.0	1490.2	1361.8	1296.6	1268.0
62.5°	17369.8	14807.0	5749.1	1622.8	1445.5	1449.6	1496.4	1408.8	1278.3	1217.1	1198.7
65°	17339.2	14444.2	4648.3	1388.4	1343.5	1347.6	1408.8	1319.1	1209.0	1172.3	1170.2
67.5°	16725.5	13559.4	3565.7	1235.4	1231.3	1249.7	1321.1	1257.9	1166.1	1162.0	1168.2
70°	15064.0	11722.5	2568.8	1113.1	1115.2	1141.6	1235.4	1219.1	1143.7	1151.9	1149.8
72.5°	12079.3	8937.7	1724.8	984.7	986.8	1029.5	1153.9	1188.6	1121.2	1229.4	1245.7
75°	8044.7	5573.8	1109.0	848.1	850.1	905.2	1082.5	1129.4	1060.2	1225.3	1235.4
77.5°	3865.4	2505.6	803.3	713.5	713.5	764.5	935.7	1011.2	903.1	952.1	872.6
80°	1335.4	941.9	632.0	574.9	562.7	597.4	788.9	876.7	778.8	717.6	672.8
82.5°	526.0	489.3	507.7	446.5	405.7	428.1	613.7	723.8	572.9	517.8	515.8
85°	301.8	318.1	358.9	295.6	234.4	263.0	450.6	519.9	432.2	381.2	389.4
87.5°	81.6	112.1	165.1	152.9	106.0	112.1	214.0	287.4	248.8	191.7	197.7
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)