

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: P970493

Luminaire Tested: **NVN-SB6B-827-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P970493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB6B-827-U-T2
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(6) 80 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30156.5 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

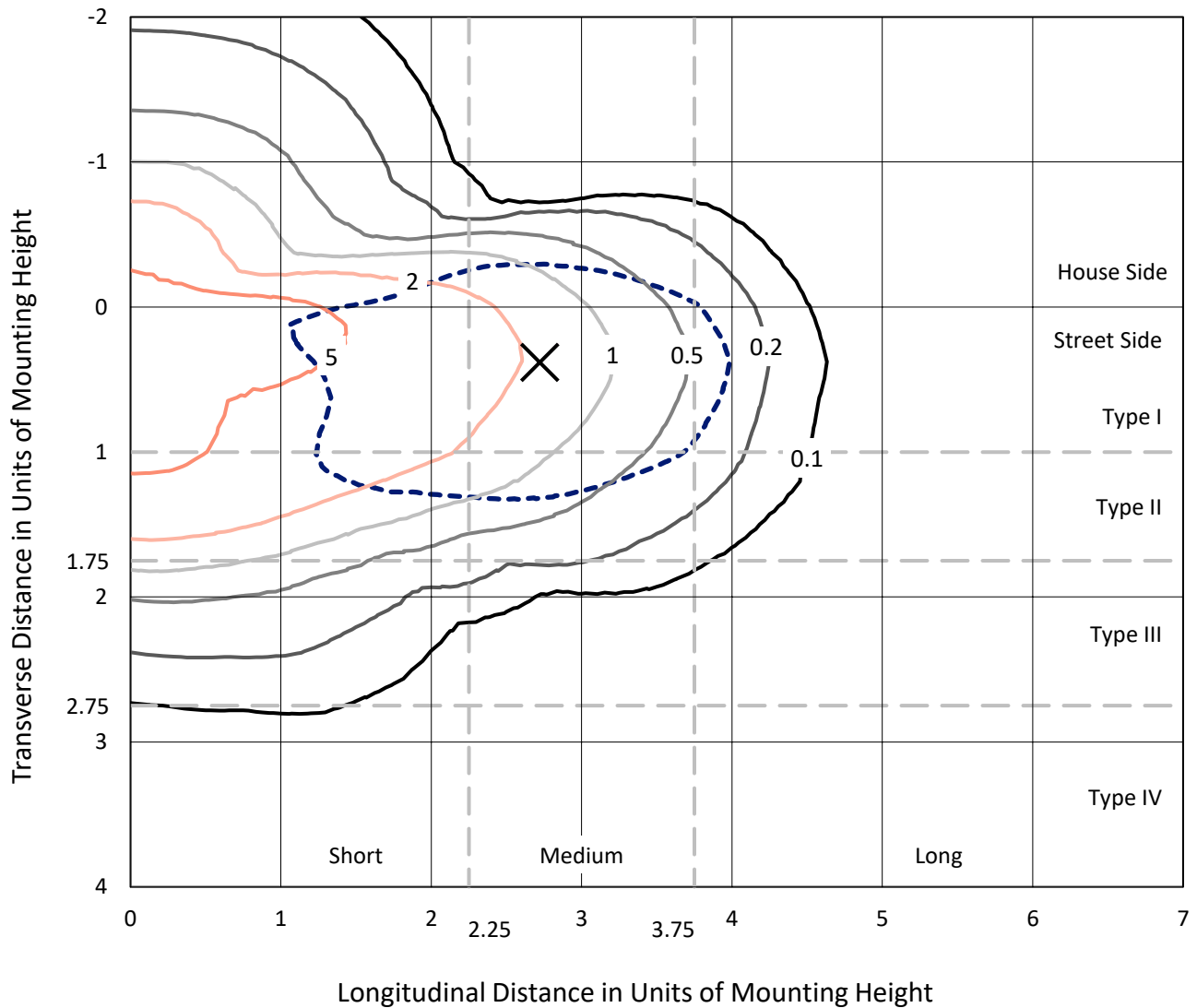
Input Watts (W): 220.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

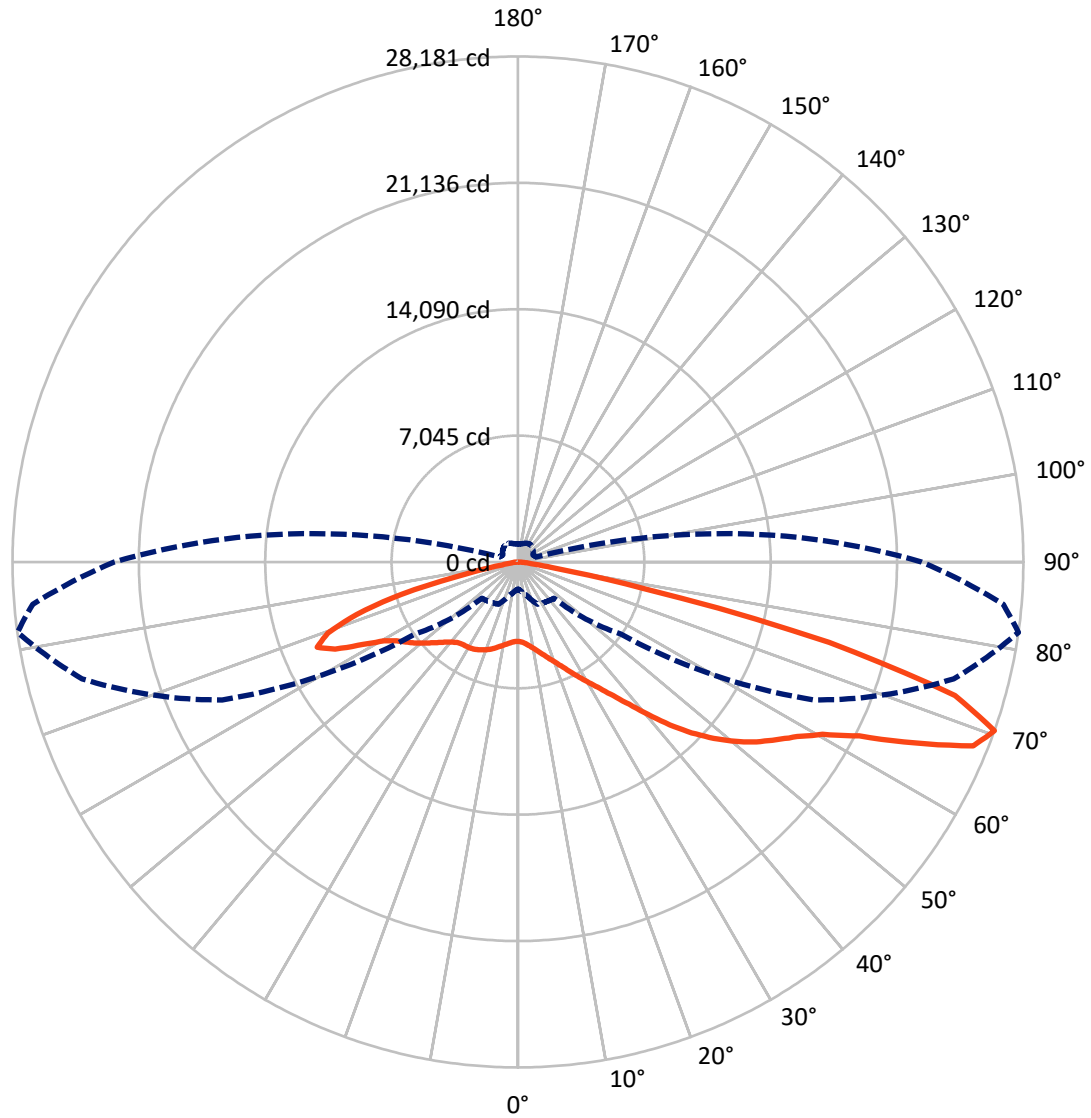
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7434.3	0.0	7434.3
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	22722.2	0.0	22722.2
	% Fixture	75.3	0.0	75.3
Total	Lumens	30156.5	0.0	30156.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.5	1.4
10°-20°	1199.4	4.0
20°-30°	2006.4	6.7
30°-40°	3134.5	10.4
40°-50°	4992.1	16.6
50°-60°	6947.1	23.0
60°-70°	7267.0	24.1
70°-80°	3798.1	12.6
80°-90°	394.4	1.3
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°	30156.5	100.0
0°-180°	30156.5	100.0

Coefficient of Utilization

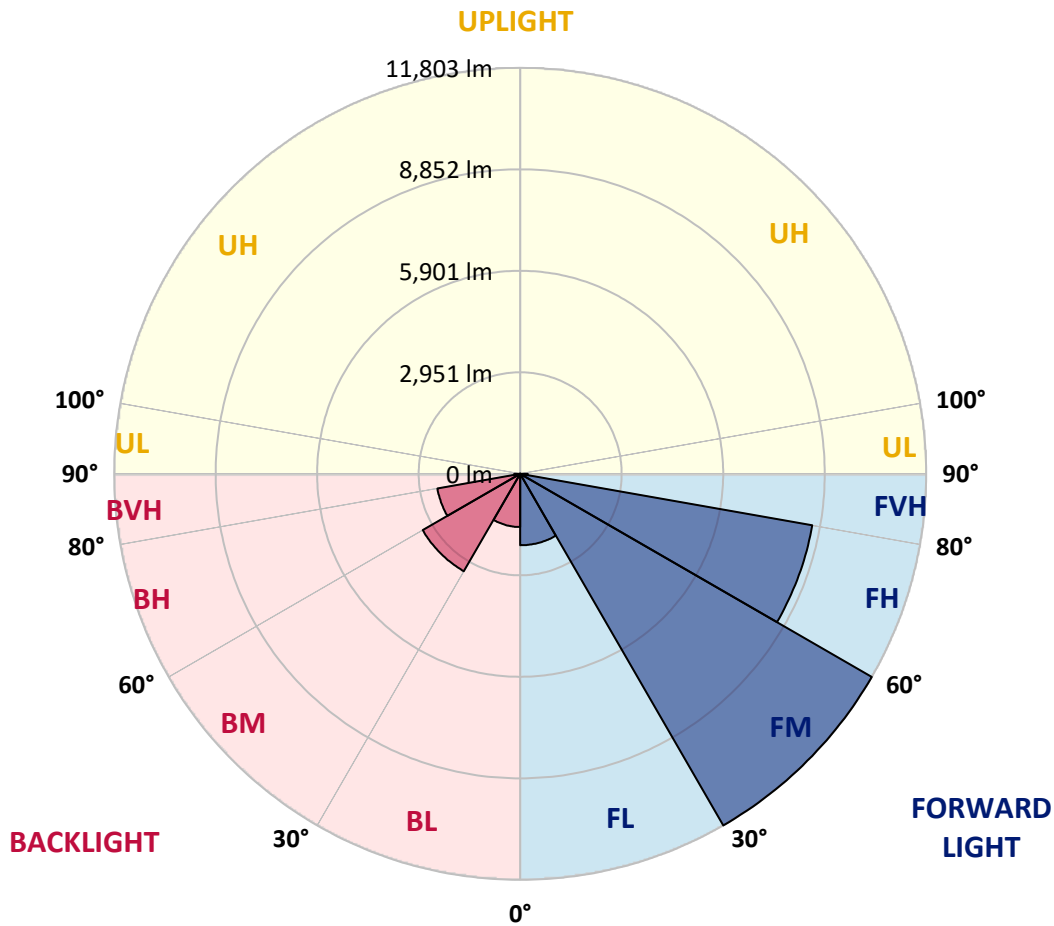


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2076.6	6.9			
FM (30°-60°)	11803.0	39.1			
FH (60°-80°)	8621.8	28.6			G4/12000
FVH (80°-90°)	220.8	0.7			G2/225
BL (0°-30°)	1546.6	5.1	B3/2500		
BM (30°-60°)	3270.8	10.8	B3/5000		
BH (60°-80°)	2443.3	8.1	B3/2500		G3/2500
BVH (80°-90°)	173.6	0.6			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 II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3
2.5°	4526.9	4552.5	4544.5	4536.5	4536.5	4525.4	4523.7	4507.7	4494.9	4474.1	4469.3
5°	4584.5	4611.8	4608.5	4615.0	4635.8	4640.6	4645.3	4635.8	4610.1	4584.5	4573.3
7.5°	4533.4	4563.7	4573.3	4611.8	4675.7	4733.3	4776.6	4794.1	4770.1	4733.3	4715.7
10°	4360.6	4394.1	4427.7	4518.9	4632.6	4768.6	4883.8	4952.6	4947.8	4912.6	4882.2
12.5°	4010.1	4045.3	4117.3	4295.0	4502.9	4743.0	4957.4	5101.4	5151.0	5125.4	5072.6
15°	3730.1	3760.4	3814.8	3997.3	4267.7	4632.6	4984.6	5264.6	5391.0	5376.6	5312.7
17.5°	3722.1	3734.8	3768.4	3854.8	4062.9	4459.8	4955.8	5424.6	5666.3	5664.7	5584.7
20°	3862.8	3867.6	3886.9	3904.4	4022.9	4328.5	4882.2	5557.4	5975.1	5975.1	5888.7
22.5°	4058.1	4054.9	4074.1	4058.1	4115.7	4317.3	4835.7	5674.3	6319.1	6344.7	6235.9
25°	4350.9	4334.9	4330.1	4293.3	4304.5	4421.3	4887.0	5807.1	6727.2	6780.0	6643.9
27.5°	4741.3	4715.7	4698.2	4613.3	4584.5	4635.8	5043.8	5967.1	7181.7	7272.9	7100.1
30°	5250.3	5203.8	5178.2	5031.0	4927.0	4935.0	5280.6	6179.9	7657.0	7804.1	7584.9
32.5°	5944.7	5872.7	5803.9	5562.3	5371.8	5309.4	5586.2	6474.4	8172.1	8407.4	8125.8
35°	6722.4	6664.8	6591.2	6218.4	5925.5	5781.5	5999.1	6885.6	8775.4	9148.3	8781.8
37.5°	7471.3	7421.7	7456.9	6954.4	6576.8	6367.2	6540.0	7437.7	9519.5	10070.0	9604.4
40°	8245.8	8207.4	8212.2	7732.1	7292.1	7056.8	7196.0	8130.6	10372.4	11166.1	10593.3
42.5°	9087.4	9058.6	8962.7	8537.0	8042.6	7823.3	7951.3	8930.6	11287.7	12414.3	11678.1
45°	10030.0	10012.4	9922.8	9434.7	8868.3	8621.8	8794.6	9814.0	12207.9	13588.8	12767.9
47.5°	10844.5	10858.8	10847.7	10436.4	9849.1	9487.5	9693.9	10735.6	13063.9	14693.0	13812.8
50°	11236.6	11311.7	11422.2	11294.2	10929.3	10561.3	10601.3	11625.3	13880.0	15728.2	14814.5
52.5°	11031.7	11174.1	11475.0	11679.8	11820.6	11743.8	11636.6	12508.7	14648.2	16662.8	15761.8
55°	10268.4	10468.4	10967.7	11462.2	12180.7	12739.1	12879.9	13488.0	15397.0	17485.3	16658.0
57.5°	8877.8	9202.7	9650.8	10650.9	11860.6	13220.8	14329.7	14846.5	16190.7	18363.8	17595.7
60°	6493.6	6928.8	7485.7	8973.9	10740.5	12963.2	15563.4	16933.2	17318.8	19501.5	18816.6
62.5°	4155.7	4424.5	4936.6	6338.4	8369.0	11643.0	15941.1	19541.5	19231.0	21367.4	20647.3
65°	2845.1	3017.9	3486.8	4274.1	5410.3	8666.6	14929.7	21496.9	22268.2	24324.5	23777.2
67.5°	2067.4	2198.6	2598.7	3288.4	3525.2	5128.6	11585.4	21407.3	25220.6	27371.3	26519.9
70°	1507.4	1600.2	1936.2	2598.7	2712.4	2853.1	7018.5	18197.3	25156.6	28180.9	27161.6
72.5°	1116.9	1180.9	1406.6	2016.3	2195.4	1926.6	3474.0	13225.6	21616.9	25489.4	24671.7
75°	808.1	856.1	1022.5	1542.6	1757.1	1467.4	1733.0	7728.9	15078.6	17930.1	18074.1
77.5°	617.7	654.5	763.3	1129.8	1406.6	1101.0	1075.3	3555.6	7149.7	7184.8	7588.1
80°	496.1	520.1	579.2	795.3	1078.5	824.1	700.9	1435.4	2259.5	1912.2	2006.6
82.5°	364.8	404.9	489.6	558.4	771.3	568.1	427.2	724.9	859.3	739.3	745.7
85°	208.1	235.2	296.0	400.1	492.8	347.3	244.9	321.6	400.1	328.0	292.8
87.5°	73.6	96.0	104.0	156.8	214.4	144.0	94.4	92.8	131.2	97.6	81.6
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°	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3	4421.3
2.5°	4453.3	4445.3	4413.3	4370.1	4325.3	4282.1	4267.7	4237.3	4216.5	4205.3	4218.1
5°	4542.9	4517.4	4442.1	4346.1	4245.3	4136.5	4059.7	3989.3	3938.0	3890.1	3909.2
7.5°	4670.9	4626.1	4496.6	4328.5	4149.3	3968.5	3834.0	3731.6	3662.8	3618.0	3627.7
10°	4819.8	4751.0	4552.5	4301.3	4024.5	3765.2	3606.9	3518.8	3475.6	3451.6	3458.0
12.5°	4991.0	4893.3	4610.1	4238.9	3834.0	3538.0	3429.2	3403.6	3405.2	3406.8	3410.0
15°	5202.2	5066.2	4656.6	4102.9	3586.1	3363.6	3344.4	3386.0	3429.2	3450.0	3448.4
17.5°	5440.6	5248.6	4664.6	3878.9	3342.8	3251.6	3312.4	3402.0	3467.6	3496.4	3502.8
20°	5696.6	5434.2	4607.0	3562.0	3142.8	3160.4	3269.2	3384.4	3456.4	3493.2	3502.8
22.5°	5989.5	5632.7	4469.3	3229.2	2979.6	3061.2	3189.2	3301.2	3376.4	3413.2	3422.8
25°	6323.9	5855.1	4253.3	2949.1	2838.7	2949.1	3077.2	3170.0	3230.8	3264.4	3274.0
27.5°	6695.2	6087.2	3965.3	2726.7	2715.5	2833.9	2939.6	3011.6	3043.5	3069.2	3078.8
30°	7068.0	6298.3	3616.4	2558.7	2608.3	2720.4	2795.5	2827.6	2837.1	2841.9	2853.1
32.5°	7471.3	6480.8	3250.0	2419.5	2505.9	2610.0	2654.7	2669.1	2624.3	2593.9	2603.5
35°	7959.3	6676.0	2891.5	2309.1	2405.1	2494.6	2509.1	2496.3	2443.5	2381.1	2384.3
37.5°	8562.6	6919.3	2605.1	2230.7	2310.7	2369.9	2352.3	2349.1	2353.9	2280.3	2285.0
40°	9301.9	7236.1	2395.5	2169.8	2233.9	2246.7	2197.1	2224.2	2248.2	2136.2	2139.5
42.5°	10122.8	7618.5	2262.7	2128.2	2169.8	2139.5	2062.6	2093.0	2089.9	1942.6	1941.0
45°	10959.7	8034.6	2216.3	2097.9	2110.7	2049.8	1965.0	1973.0	1905.8	1773.0	1777.8
47.5°	11791.8	8481.1	2245.1	2072.2	2037.1	1968.2	1902.6	1867.4	1768.2	1669.0	1669.0
50°	12607.9	8949.9	2350.6	2021.0	1936.2	1896.2	1848.2	1785.9	1680.2	1595.4	1589.0
52.5°	13364.8	9421.9	2469.1	1936.2	1809.8	1833.8	1803.4	1731.4	1627.4	1541.0	1542.6
55°	14081.7	9894.0	2515.5	1819.4	1691.4	1779.4	1761.8	1629.0	1504.2	1433.8	1427.4
57.5°	14862.6	10462.1	2464.3	1670.6	1595.4	1717.0	1649.8	1502.5	1430.6	1377.8	1373.0
60°	15944.3	11353.3	2353.9	1486.6	1504.2	1624.2	1509.0	1448.2	1369.8	1310.6	1307.4
62.5°	17741.3	13016.0	2176.3	1304.1	1397.0	1486.6	1441.8	1381.0	1300.9	1243.3	1243.3
65°	20397.6	15326.6	1841.8	1161.7	1276.9	1352.2	1369.8	1308.9	1225.7	1164.9	1168.1
67.5°	22637.8	16776.4	1393.8	1043.3	1153.7	1243.3	1292.9	1233.8	1145.7	1086.5	1088.1
70°	22514.6	15723.5	1064.2	926.5	1044.9	1136.1	1200.2	1153.7	1059.3	1003.3	1008.1
72.5°	19997.5	13153.5	860.9	808.1	934.5	1024.1	1101.0	1065.7	969.8	915.3	915.3
75°	14691.3	9337.1	688.1	688.1	796.9	907.3	992.1	969.8	881.7	843.3	832.1
77.5°	6192.7	3917.2	539.3	571.2	662.5	779.3	884.9	892.9	816.1	864.1	784.1
80°	1646.6	1080.1	411.2	449.7	520.1	643.3	769.7	766.5	683.3	638.5	593.7
82.5°	627.3	425.7	292.8	316.8	376.1	492.8	609.7	628.8	545.7	472.0	472.0
85°	241.6	182.4	180.8	190.4	219.2	326.5	460.8	476.8	411.2	348.8	360.1
87.5°	62.4	54.4	67.2	64.0	100.9	174.5	264.0	273.7	251.2	145.7	208.1
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)