

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: P480288

Luminaire Tested: **IFLD-L-SA7B-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480288
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

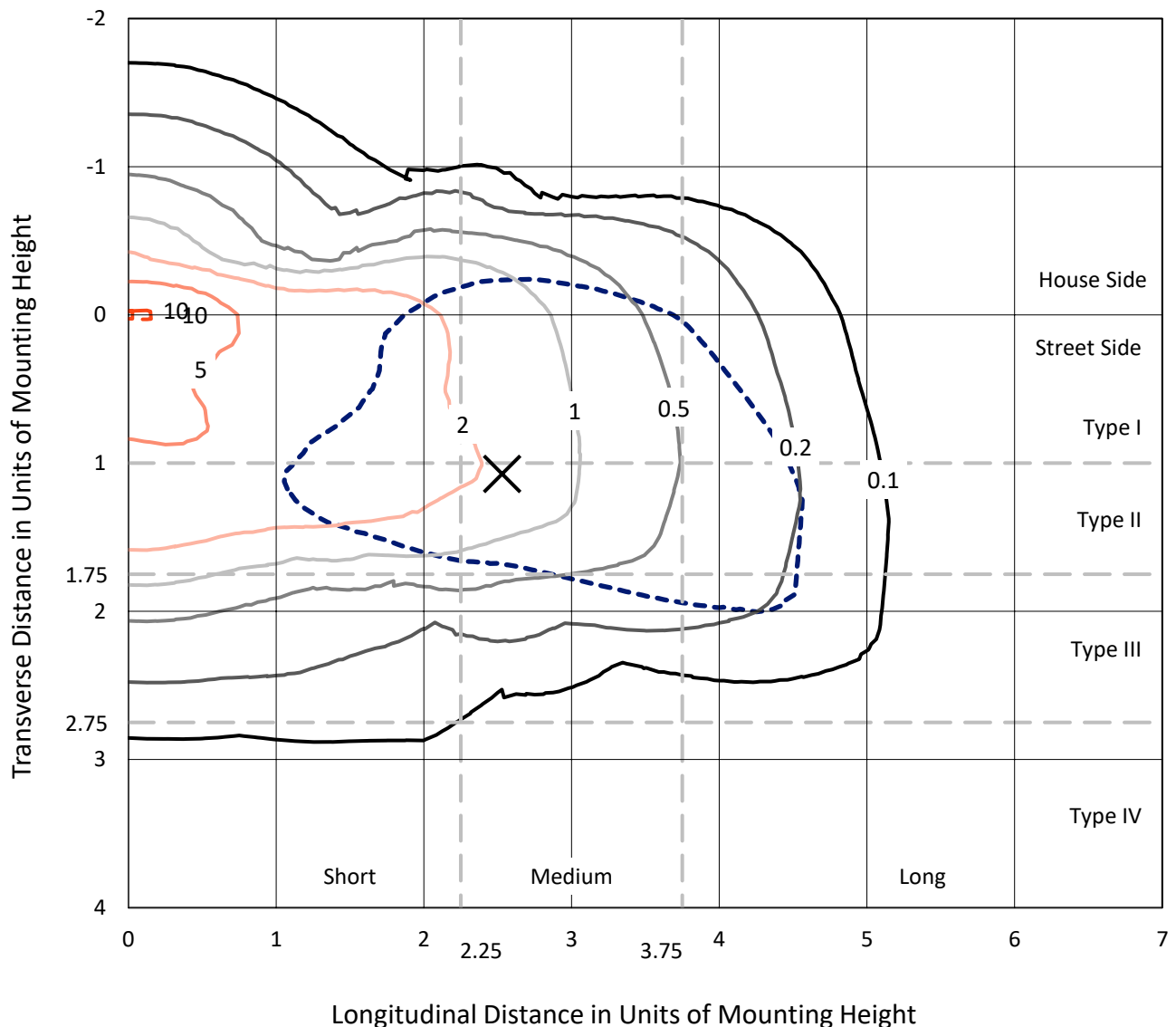
Lumens per Lamp: N/A
Luminaire Lumens: 28214.1 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 281
Input Voltage (V): 120
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

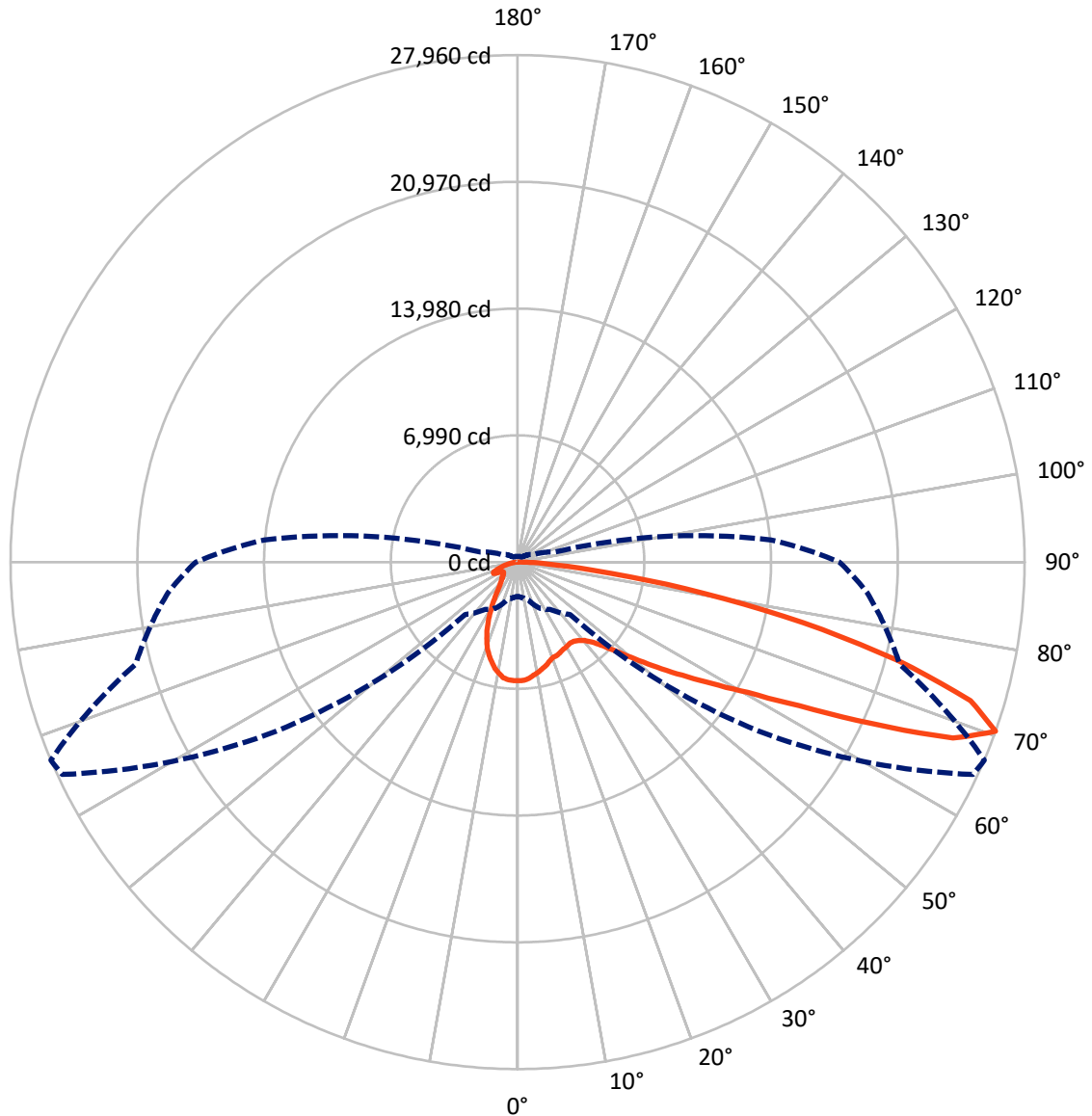
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5495.0	0.0	5495.0
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	22719.1	0.0	22719.1
	% Fixture	80.5	0.0	80.5
Total	Lumens	28214.1	0.0	28214.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	569.9	2.0
10°-20°	1364.9	4.8
20°-30°	1843.1	6.5
30°-40°	2466.3	8.7
40°-50°	3626.6	12.9
50°-60°	5653.0	20.0
60°-70°	6963.5	24.7
70°-80°	4920.4	17.4
80°-90°	806.5	2.9
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°	28214.1	100.0
0°-180°	28214.1	100.0

Coefficient of Utilization



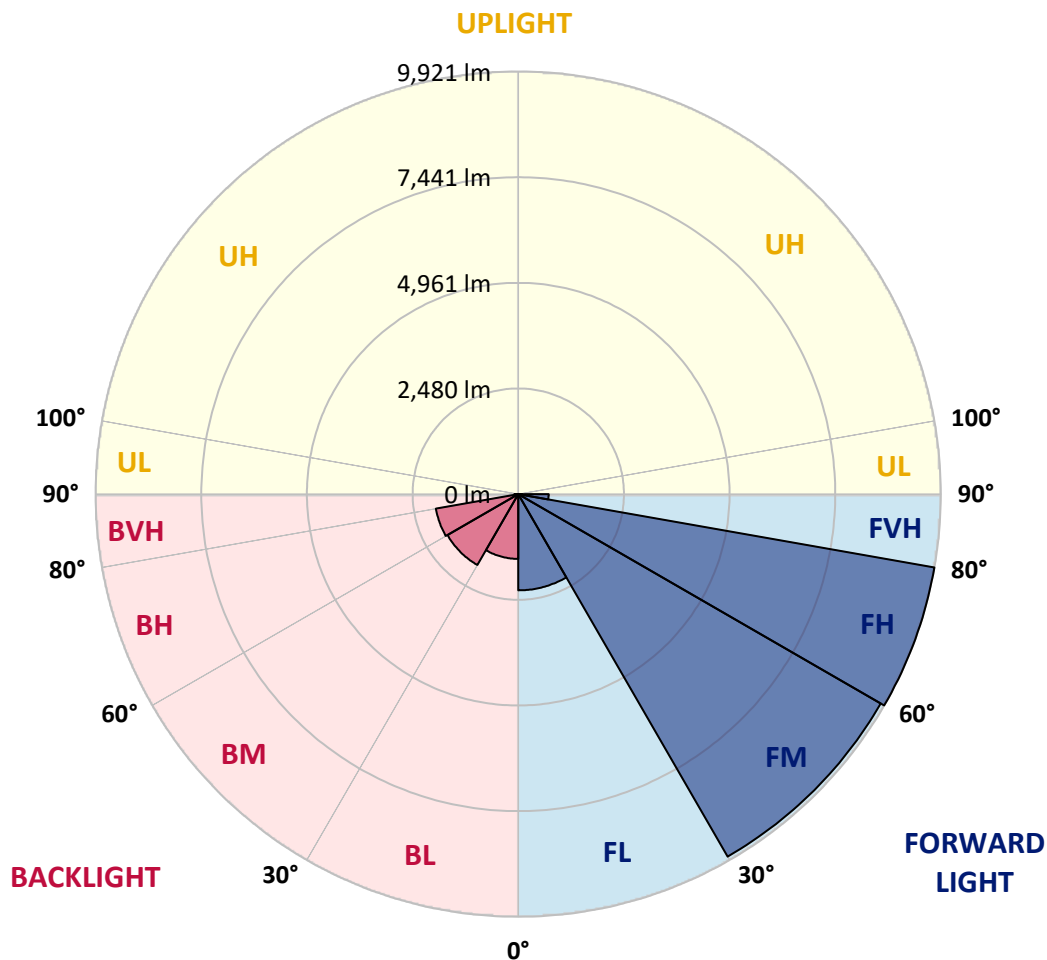
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2258.3	8.0			
FM (30°-60°)	9826.4	34.8			
FH (60°-80°)	9921.0	35.2			G4/12000
FVH (80°-90°)	713.4	2.5			G4/750
BL (0°-30°)	1519.5	5.4	B3/2500		
BM (30°-60°)	1919.5	6.8	B2/2500		
BH (60°-80°)	1962.9	7.0	B3/2500		G3/2500
BVH (80°-90°)	93.0	0.3			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5
2.5°	6081.7	6150.4	6175.4	6212.9	6309.7	6381.5	6425.3	6475.3	6534.6	6584.6	6615.8
5°	5656.9	5694.3	5753.7	5794.3	5916.1	6109.8	6241.0	6453.4	6447.1	6525.2	6643.9
7.5°	5244.5	5282.0	5310.1	5391.4	5566.3	5741.2	5981.7	6325.3	6300.3	6481.5	6665.8
10°	4988.4	4960.3	4969.7	5107.1	5244.5	5441.3	5744.3	6094.2	6184.8	6465.9	6728.3
12.5°	4747.9	4716.7	4791.6	4879.1	5047.8	5225.8	5588.1	5903.6	6041.1	6409.7	6756.4
15°	4598.0	4576.1	4669.8	4707.3	4907.2	5119.6	5375.7	5759.9	5909.9	6340.9	6712.6
17.5°	4513.6	4532.4	4566.7	4647.9	4776.0	4957.2	5238.3	5663.1	5728.7	6256.6	6703.3
20°	4529.2	4551.1	4554.2	4588.6	4676.0	4816.6	5104.0	5560.0	5603.8	6241.0	6728.3
22.5°	4654.2	4622.9	4635.4	4613.6	4638.6	4747.9	5000.9	5422.6	5591.3	6109.8	6675.2
25°	4841.6	4797.9	4791.6	4716.7	4669.8	4701.0	4982.2	5388.2	5497.6	6069.2	6672.0
27.5°	5172.7	5107.1	5107.1	4994.7	4804.1	4754.1	4929.1	5332.0	5428.8	6031.7	6600.2
30°	5491.3	5491.3	5494.4	5335.1	5122.7	4876.0	4950.9	5310.1	5372.6	5919.2	6503.4
32.5°	5878.6	5869.3	5853.7	5775.6	5447.6	5079.0	5057.1	5282.0	5313.3	5881.8	6475.3
35°	6256.6	6231.6	6353.4	6284.7	5950.5	5475.7	5166.5	5294.5	5363.2	5825.5	6387.8
37.5°	6540.8	6556.5	6809.5	6853.2	6565.8	5925.5	5475.7	5419.5	5485.1	5906.8	6387.8
40°	6909.4	6971.9	7209.3	7356.1	7181.2	6519.0	5966.1	5628.8	5675.6	6087.9	6525.2
42.5°	7393.6	7446.7	7749.7	7940.2	7890.2	7274.9	6450.3	6066.1	6028.6	6390.9	6731.4
45°	8033.9	8043.3	8349.4	8611.8	8714.9	8065.2	7218.7	6618.9	6587.7	6912.6	7109.3
47.5°	8796.1	8786.7	8977.3	9258.4	9536.4	9008.5	8102.7	7459.2	7346.7	7659.1	7737.2
50°	9533.3	9492.7	9536.4	9895.6	10429.7	10189.2	9177.2	8486.9	8374.4	8546.2	8680.5
52.5°	9939.3	9989.3	9870.6	10345.4	11379.3	11585.5	10601.5	9714.4	9617.6	9701.9	9936.2
55°	9655.1	9758.2	9680.1	10129.9	11794.8	13287.9	12444.5	11135.7	11010.7	10979.5	11363.7
57.5°	8446.3	8633.7	8649.3	9361.5	11651.1	14606.0	15037.1	12813.1	12625.6	12307.0	12703.7
60°	6484.6	6672.0	6815.7	7659.1	10420.4	15393.2	18042.0	15199.5	14581.0	13756.4	13993.8
62.5°	4544.9	4672.9	4816.6	5335.1	8033.9	14930.9	20640.8	18560.5	17420.4	15283.8	15580.6
65°	3311.0	3411.0	3557.8	3863.9	4935.3	12353.9	21846.6	22552.5	21471.7	17226.7	17189.2
67.5°	2492.6	2555.1	2748.8	3239.2	3420.4	7631.0	20597.1	26769.4	25894.8	19385.1	18482.4
70°	1886.7	1939.8	2120.9	2792.5	3195.5	4091.9	16249.0	27709.6	27959.5	21805.9	19350.8
72.5°	1299.4	1358.8	1561.8	2327.1	3042.4	3245.4	10198.6	25173.2	26119.7	22802.4	18419.9
75°	796.5	837.1	955.8	1764.8	3020.5	3173.6	5613.1	20628.3	21631.0	21068.8	16114.7
77.5°	562.3	559.1	581.0	1033.9	2617.6	3192.3	3461.0	15115.2	16089.7	15527.5	10935.8
80°	409.2	412.3	434.2	618.5	1777.3	3245.4	2726.9	10123.6	10414.1	8096.4	4313.7
82.5°	246.8	259.3	312.4	418.6	1068.3	2929.9	2520.8	5625.6	5263.3	2598.8	1187.0
85°	131.2	131.2	184.3	265.5	568.5	2186.5	2427.0	2676.9	2242.8	805.9	440.4
87.5°	31.2	31.2	53.1	106.2	228.0	1046.4	1655.5	1065.2	852.7	271.8	181.2
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°	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5	6531.5
2.5°	6603.3	6565.8	6612.7	6519.0	6444.0	6447.1	6331.6	6325.3	6309.7	6228.5	6256.6
5°	6678.3	6647.0	6593.9	6490.9	6325.3	6159.8	6059.8	5931.7	5878.6	5850.5	5863.0
7.5°	6750.1	6693.9	6540.8	6397.2	6141.0	5828.7	5647.5	5475.7	5257.0	5232.1	5188.3
10°	6768.9	6650.2	6453.4	6147.3	5806.8	5460.1	5047.8	4729.2	4560.5	4429.3	4379.3
12.5°	6740.8	6690.8	6312.8	5919.2	5403.9	4860.3	4379.3	3929.5	3617.1	3454.7	3411.0
15°	6737.6	6650.2	6156.6	5572.5	4913.4	4204.4	3520.3	2979.9	2651.9	2517.6	2517.6
17.5°	6740.8	6531.5	5972.3	5222.7	4335.6	3376.6	2623.8	2180.3	1999.1	1980.4	1996.0
20°	6678.3	6444.0	5778.7	4810.4	3610.9	2536.4	1905.4	1724.2	1724.2	1749.2	1758.6
22.5°	6622.1	6312.8	5472.6	4301.2	2873.7	1836.7	1549.3	1496.2	1555.6	1599.3	1618.0
25°	6544.0	6203.5	5160.2	3773.3	2186.5	1480.6	1346.3	1358.8	1415.0	1493.1	1486.8
27.5°	6431.5	6013.0	4788.5	3161.1	1627.4	1277.6	1243.2	1249.4	1308.8	1343.2	1336.9
30°	6303.5	5819.3	4444.9	2552.0	1290.1	1171.4	1168.2	1183.8	1193.2	1212.0	1208.8
32.5°	6141.0	5563.2	4079.4	1983.5	1162.0	1112.0	1099.5	1090.1	1099.5	1096.4	1087.0
35°	6025.5	5425.7	3707.7	1511.8	1090.1	1058.9	1049.5	1033.9	1021.4	1002.7	999.6
37.5°	5994.2	5288.3	3317.3	1233.8	1033.9	1018.3	987.1	958.9	943.3	934.0	927.7
40°	5975.5	5197.7	2936.2	1083.9	987.1	971.4	934.0	896.5	880.9	871.5	874.6
42.5°	6041.1	5147.7	2548.9	1008.9	946.5	918.3	877.7	834.0	830.9	824.6	834.0
45°	6272.2	5210.2	2189.7	955.8	905.8	859.0	805.9	784.0	780.9	774.7	780.9
47.5°	6797.0	5366.4	1883.5	921.5	862.1	821.5	765.3	734.0	730.9	727.8	727.8
50°	7521.7	5847.4	1627.4	880.9	834.0	777.8	724.7	690.3	684.1	671.6	671.6
52.5°	8658.7	6656.4	1474.3	859.0	784.0	737.2	680.9	643.5	627.8	615.4	615.4
55°	9939.3	7659.1	1446.2	821.5	730.9	687.2	637.2	599.7	584.1	568.5	562.3
57.5°	11398.1	8986.6	1646.1	796.5	693.4	637.2	581.0	546.6	534.1	518.5	512.3
60°	12756.8	10311.0	2267.7	759.0	659.1	590.4	534.1	499.8	484.2	468.5	468.5
62.5°	14328.0	11950.9	3320.4	759.0	627.8	540.4	484.2	459.2	449.8	434.2	431.1
65°	16186.6	13647.1	4088.8	805.9	618.5	496.7	437.3	412.3	402.9	393.6	390.5
67.5°	17601.6	14621.6	3517.2	930.8	659.1	459.2	390.5	374.8	368.6	359.2	353.0
70°	17751.5	14028.1	2120.9	1005.8	699.7	421.7	349.8	334.2	334.2	324.9	318.6
72.5°	16405.2	12447.6	1427.5	896.5	634.1	378.0	309.2	296.7	290.5	284.2	281.1
75°	13728.3	10557.8	1127.6	715.3	487.3	312.4	268.6	256.1	246.8	243.6	237.4
77.5°	9220.9	6862.6	834.0	559.1	359.2	253.0	224.9	212.4	203.0	199.9	190.5
80°	3542.2	2614.5	537.3	406.1	253.0	199.9	178.0	165.6	159.3	149.9	143.7
82.5°	1043.3	846.5	299.9	249.9	162.4	137.4	128.1	118.7	109.3	100.0	96.8
85°	431.1	387.3	184.3	131.2	100.0	81.2	75.0	65.6	56.2	50.0	43.7
87.5°	199.9	165.6	84.3	50.0	34.4	18.7	9.4	3.1	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)