

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: P638268

Luminaire Tested: **IFLD-L-SA7D-827-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638268  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA7D-827-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (112) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27581 lumens  
Efficiency: N/A  
Efficacy: 65.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

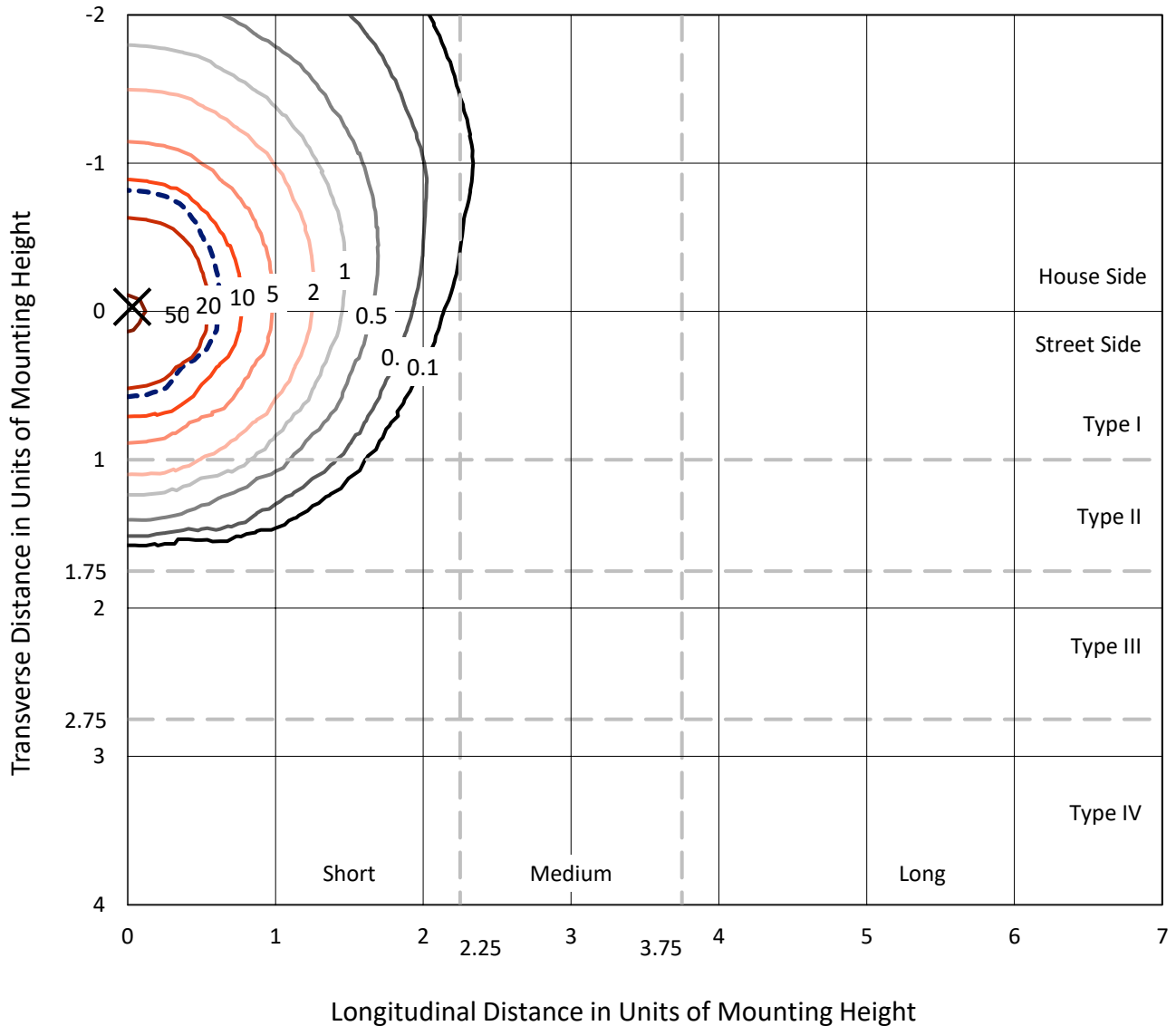
Input Watts (W): 422.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

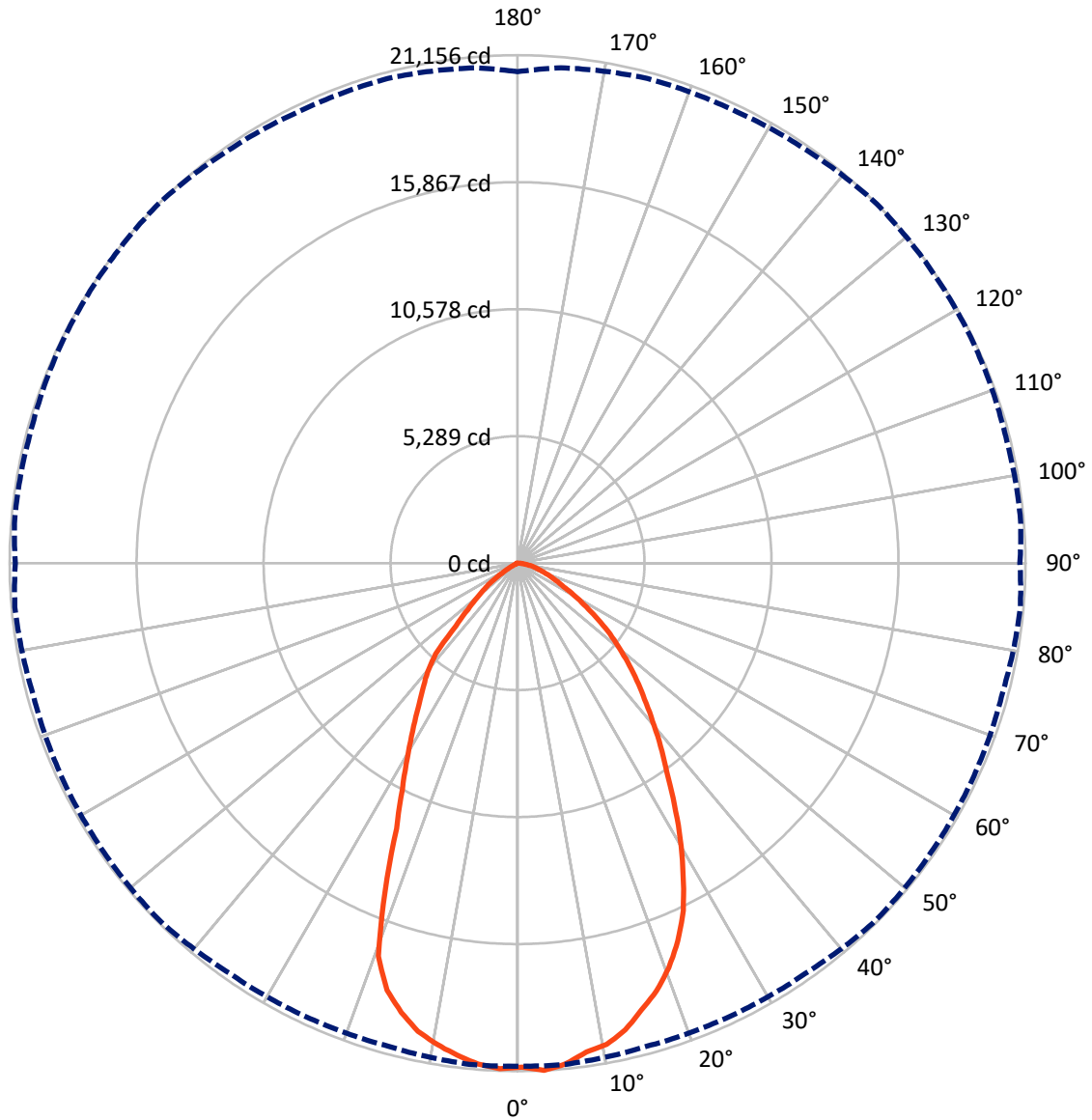
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 52.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral    - - - Horizontal Cone Through 2.5-Deg Vertical

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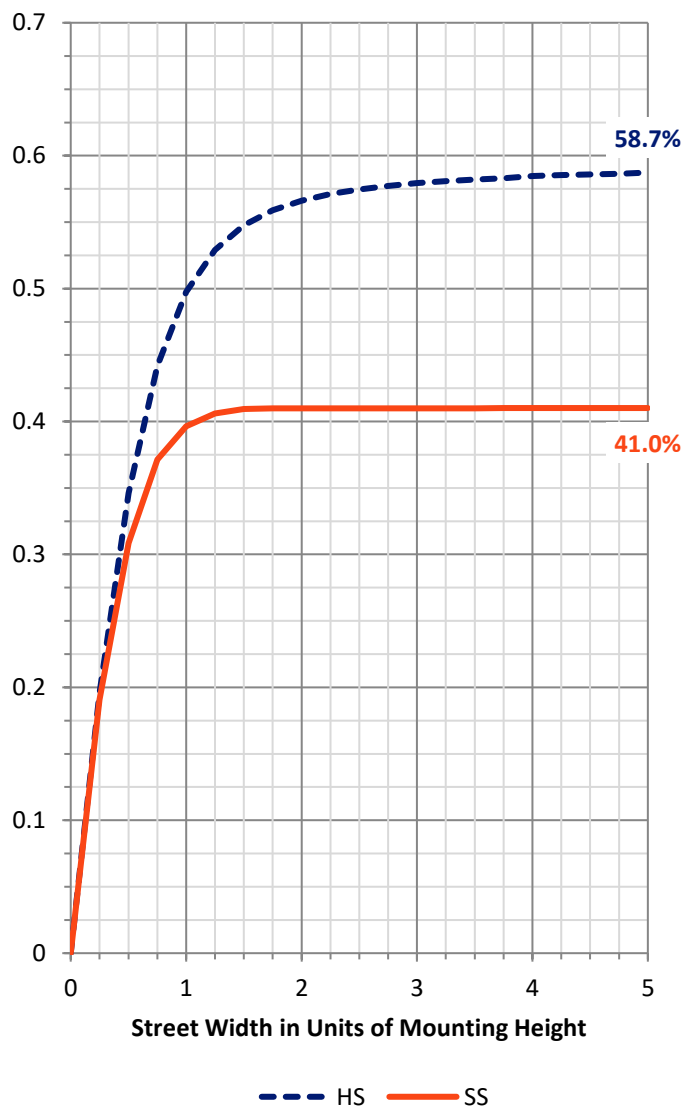
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	16334.9	0.0	16334.9
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	11246.1	0.0	11246.1
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	27581.0	0.0	27581.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1968.4	7.1
10°-20°	5278.5	19.1
20°-30°	6437.4	23.3
30°-40°	5877.3	21.3
40°-50°	4247.4	15.4
50°-60°	2319.1	8.4
60°-70°	958.9	3.5
70°-80°	388.4	1.4
80°-90°	105.6	0.4
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°	27581.0	100.0
0°-180°	27581.0	100.0



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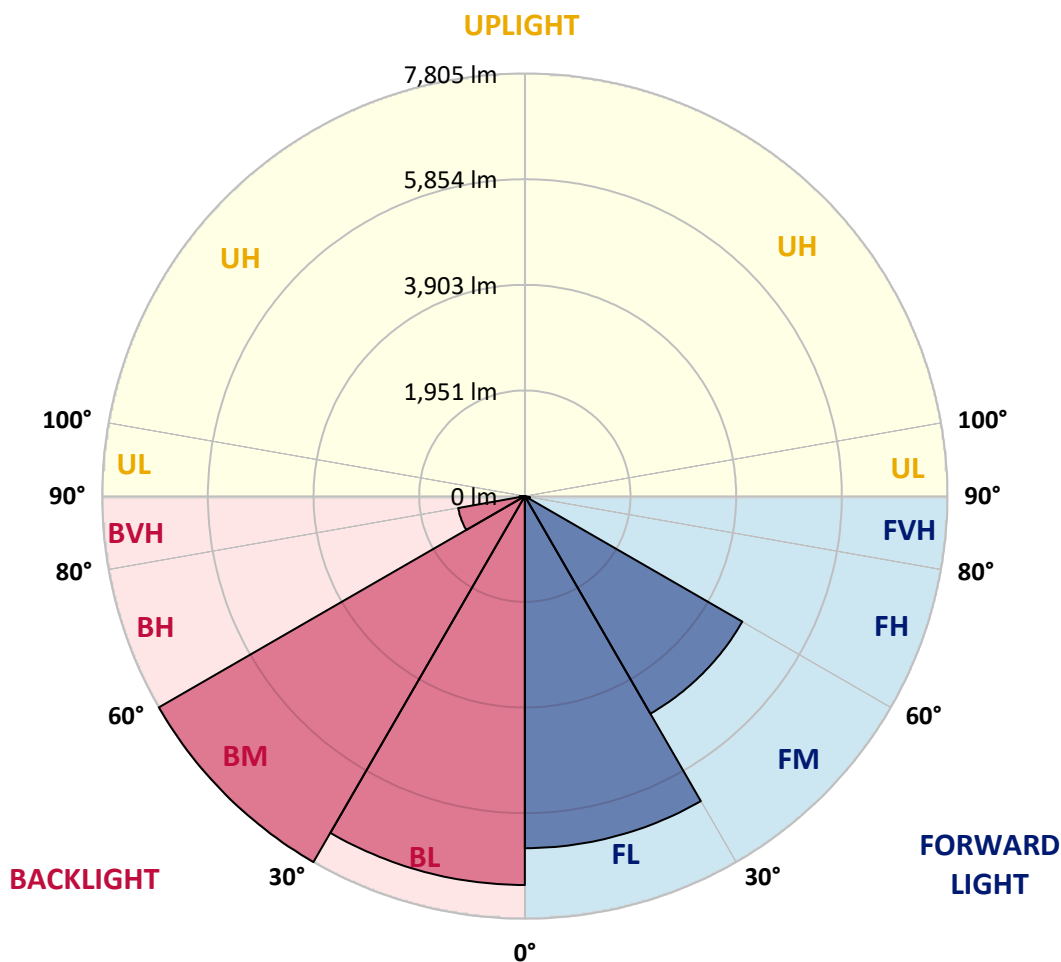
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6501.9	23.6			
FM (30°-60°)	4638.6	16.8			
FH (60°-80°)	97.2	0.4			G0/660
FVH (80°-90°)	8.5	0.0			G0/10
BL (0°-30°)	7182.5	26.0	B5		
BM (30°-60°)	7805.2	28.3	B4/8500		
BH (60°-80°)	1250.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	97.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B5-U0-G3**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	20989.1	20989.1	20989.1	20989.1	20989.1	20989.1	20989.1	20989.1	20989.1	20989.1
2.5°	20950.2	20977.4	20829.8	20845.4	20872.6	21070.6	21020.1	20973.5	20907.5	21020.1
5°	20923.0	20938.6	20783.2	20728.8	20752.1	20930.8	20767.7	20767.7	20752.1	20732.7
7.5°	20713.3	20721.1	20600.7	20503.6	20565.7	20647.3	20526.9	20585.1	20499.7	20565.7
10°	20398.7	20348.2	20204.5	20177.3	20247.2	20324.9	20243.3	20297.7	20220.0	20270.5
12.5°	19936.5	19858.8	19742.3	19707.4	19827.8	19932.6	19866.6	19835.5	19734.5	19858.8
15°	18153.8	18095.5	18359.6	18821.8	19237.4	19326.7	19256.8	19287.9	19078.2	19113.1
17.5°	14941.7	14833.0	15116.5	16211.8	17773.1	18596.5	18534.4	18332.4	18021.7	18091.6
20°	13578.4	13547.4	13516.3	13776.5	14867.9	17365.3	17450.8	16938.1	16495.3	16398.2
22.5°	12809.4	12797.7	12766.7	12824.9	13112.3	14716.4	15695.2	15221.3	14926.2	14899.0
25°	12106.4	12087.0	11993.8	12067.6	12067.6	12160.8	13415.3	13702.7	13442.5	13411.4
27.5°	11391.7	11356.8	11341.2	11376.2	11197.5	10568.3	10886.8	12288.9	12153.0	12160.8
30°	10618.8	10607.2	10564.4	10638.2	10086.7	9306.0	9104.1	11007.2	11034.4	11026.6
32.5°	9469.2	9519.7	9713.9	9795.4	8886.6	8241.8	7903.9	9523.5	10078.9	10067.3
35°	6878.5	6878.5	7511.6	8688.5	7787.4	7301.9	7119.4	8074.8	9135.1	9174.0
37.5°	5655.1	5674.5	5798.8	6334.8	6719.3	6548.4	6494.0	6797.0	7923.3	7985.5
40°	5088.0	5088.0	5088.0	4866.6	4855.0	5899.8	5868.7	5771.6	6843.6	6979.5
42.5°	4571.5	4583.1	4590.9	4031.6	3720.9	5099.7	5029.8	4882.2	5876.5	6035.7
45°	4039.3	4058.8	4082.1	3371.3	3235.4	3670.4	4256.9	4093.7	4921.0	5126.9
47.5°	2466.3	2497.4	3025.6	2858.6	2874.2	2831.4	3472.3	3445.1	4035.5	4326.8
50°	1666.2	1677.9	1728.4	1813.8	2466.3	2225.5	2458.6	2850.8	3064.5	3507.2
52.5°	1398.2	1417.7	1293.4	1176.8	1619.6	1740.0	1716.7	2116.8	2202.2	2749.9
55°	982.6	1044.8	986.5	974.9	920.5	1351.6	1301.1	1627.4	1681.8	2089.6
57.5°	101.0	116.5	202.0	726.3	602.0	765.1	928.3	1192.4	1246.8	1541.9
60°	7.8	7.8	19.4	101.0	438.9	458.3	640.9	734.1	838.9	1075.9
62.5°	0.0	3.9	7.8	15.5	69.9	244.7	322.4	384.5	504.9	695.2
65°	0.0	0.0	3.9	11.7	15.5	93.2	124.3	202.0	275.8	431.1
67.5°	0.0	0.0	3.9	7.8	11.7	23.3	42.7	73.8	147.6	244.7
70°	0.0	0.0	3.9	7.8	11.7	19.4	31.1	46.6	66.0	132.1
72.5°	0.0	0.0	3.9	3.9	7.8	19.4	23.3	31.1	46.6	66.0
75°	0.0	0.0	3.9	3.9	11.7	23.3	19.4	23.3	31.1	42.7
77.5°	0.0	0.0	3.9	7.8	11.7	23.3	19.4	23.3	23.3	27.2
80°	0.0	0.0	3.9	7.8	15.5	27.2	23.3	23.3	19.4	19.4
82.5°	0.0	0.0	3.9	11.7	15.5	35.0	35.0	31.1	15.5	11.7
85°	0.0	0.0	7.8	15.5	23.3	38.8	38.8	31.1	11.7	7.8
87.5°	0.0	0.0	7.8	11.7	19.4	27.2	38.8	31.1	11.7	3.9
90°	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°
20989.1	0°	20989.1	20989.1	20989.1	20989.1	20989.1	20989.1	20989.1	20989.1	20989.1
20923.0	2.5°	21027.9	21004.6	21082.3	21113.4	21156.1	20993.0	20892.0	20895.9	20709.4
20686.1	5°	20810.4	20814.3	20915.3	20907.5	20950.2	20860.9	20822.1	20756.0	20592.9
20387.1	7.5°	20534.6	20499.7	20596.8	20670.6	20561.8	20624.0	20534.6	20565.7	20468.6
20122.9	10°	20321.0	20239.5	20328.8	20379.3	20383.2	20321.0	20235.6	20154.0	20119.1
19711.2	12.5°	19847.2	19742.3	19893.8	19963.7	19952.0	19831.6	19734.5	19754.0	19641.3
18988.8	15°	19194.7	19198.6	19307.3	19373.3	19311.2	19284.0	19291.8	19245.2	19148.1
17990.6	17.5°	18196.5	18254.7	18542.2	18701.4	18736.4	18682.0	18654.8	18600.4	18503.3
16398.2	20°	16534.1	16883.7	17396.4	17889.6	17986.7	17971.2	17874.1	17850.8	17796.4
14821.3	22.5°	15073.8	15334.0	15928.2	16697.3	17093.4	17132.3	17015.8	16980.8	16922.5
13411.4	25°	13562.9	13842.5	14378.5	15213.6	16033.1	16200.1	16180.7	16075.8	16013.7
12160.8	27.5°	12288.9	12568.6	13054.1	13807.6	14685.4	15221.3	15271.8	15104.8	15100.9
11046.1	30°	11139.3	11523.8	11892.8	12506.4	13357.0	14161.0	14246.5	14129.9	14141.6
10024.6	32.5°	10238.2	10556.7	10871.3	11283.0	11989.9	12925.9	13259.9	13151.2	13108.5
9174.0	35°	9317.7	9535.2	9857.6	10234.3	10715.9	11644.2	12222.9	12141.3	12098.6
8024.3	37.5°	8269.0	8641.9	8874.9	9298.3	9675.0	10413.0	11228.6	11217.0	11127.6
7045.6	40°	7193.1	7585.4	7938.9	8366.1	8657.4	9243.9	10148.9	10145.0	10156.6
6031.8	42.5°	6218.3	6579.5	7006.7	7472.8	7752.4	8179.7	9150.7	9205.1	9271.1
5196.8	45°	5336.6	5662.9	6059.0	6626.1	6964.0	7208.7	8070.9	8319.5	8315.6
4451.1	47.5°	4544.3	4851.1	5185.1	5736.7	6167.8	6389.2	7103.8	7457.3	7434.0
3650.9	50°	3814.1	4086.0	4435.5	4835.6	5414.3	5608.5	6140.6	6606.7	6571.7
2909.1	52.5°	3068.4	3445.1	3740.3	4105.4	4715.2	4905.5	5317.2	5771.6	5744.4
2182.8	55°	2392.5	2757.6	3115.0	3429.6	3942.2	4225.8	4521.0	4987.0	4979.3
1709.0	57.5°	1809.9	2210.0	2547.9	2847.0	3254.8	3604.3	3841.3	4264.6	4319.0
1169.1	60°	1340.0	1646.8	2011.9	2345.9	2668.3	3029.5	3188.8	3604.3	3627.6
800.1	62.5°	912.7	1250.6	1608.0	1910.9	2151.7	2524.6	2668.3	3010.1	3052.8
512.7	65°	633.1	850.6	1258.4	1475.9	1771.1	2089.6	2233.3	2505.2	2590.6
295.2	67.5°	419.5	605.9	982.6	1180.7	1472.0	1689.5	1872.1	2093.5	2186.7
186.4	70°	229.2	446.7	703.0	932.2	1184.6	1394.4	1573.0	1751.7	1833.2
85.4	72.5°	155.4	299.1	489.4	738.0	955.5	1161.3	1320.6	1452.6	1456.5
50.5	75°	77.7	202.0	372.9	570.9	745.7	947.7	1091.4	1169.1	1075.9
31.1	77.5°	46.6	147.6	303.0	458.3	605.9	765.1	846.7	889.4	738.0
23.3	80°	27.2	104.9	236.9	365.1	419.5	563.2	640.9	652.5	493.3
15.5	82.5°	19.4	77.7	186.4	268.0	256.3	396.2	481.6	466.1	314.6
11.7	85°	11.7	54.4	116.5	167.0	155.4	260.2	279.6	287.4	182.5
7.8	87.5°	7.8	31.1	62.1	89.3	73.8	112.6	112.6	135.9	89.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
20989.1  
**20468.6**  
20554.1  
20305.5  
19963.7  
19544.2  
19051.0  
18460.6  
17672.1  
16907.0  
15947.7  
15093.2  
14083.3  
13112.3  
12040.4  
11201.4  
10156.6  
9236.1  
8323.4  
7441.7  
6602.8  
5802.7  
4998.7  
4295.7  
3662.6  
3060.6  
2571.2  
2175.0  
1802.2  
1421.5  
1006.0  
710.8  
462.2  
291.3  
167.0  
77.7  
0.0

(END OF REPORT)