

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: P638156

Luminaire Tested: **IFLD-L-SA8C-735-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638156  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-L-SA8C-735-U-77-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor  
Light Source: (128) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38436 lumens  
Efficiency: N/A  
Efficacy: 91.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G3

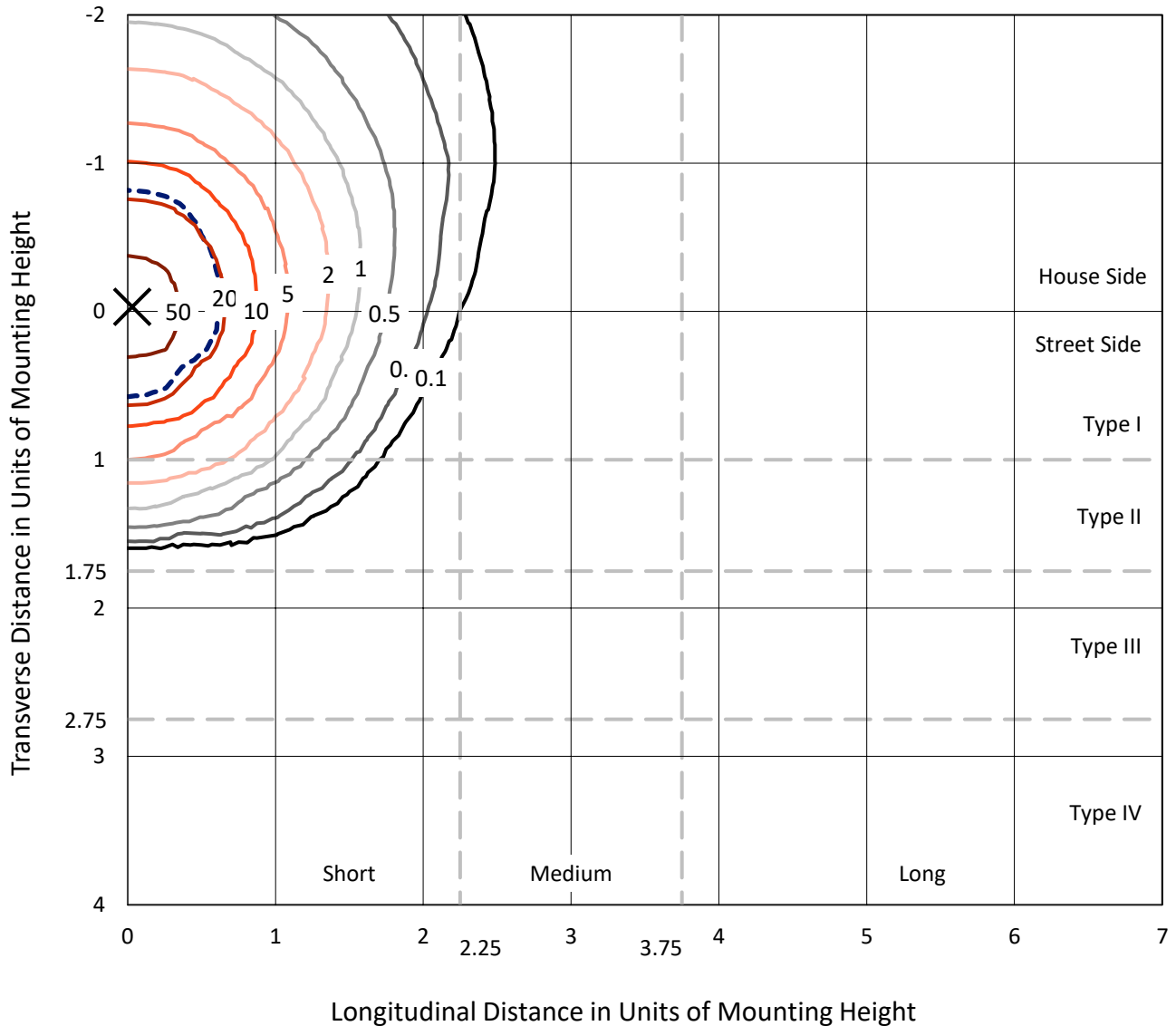
Input Watts (W): 420.3  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

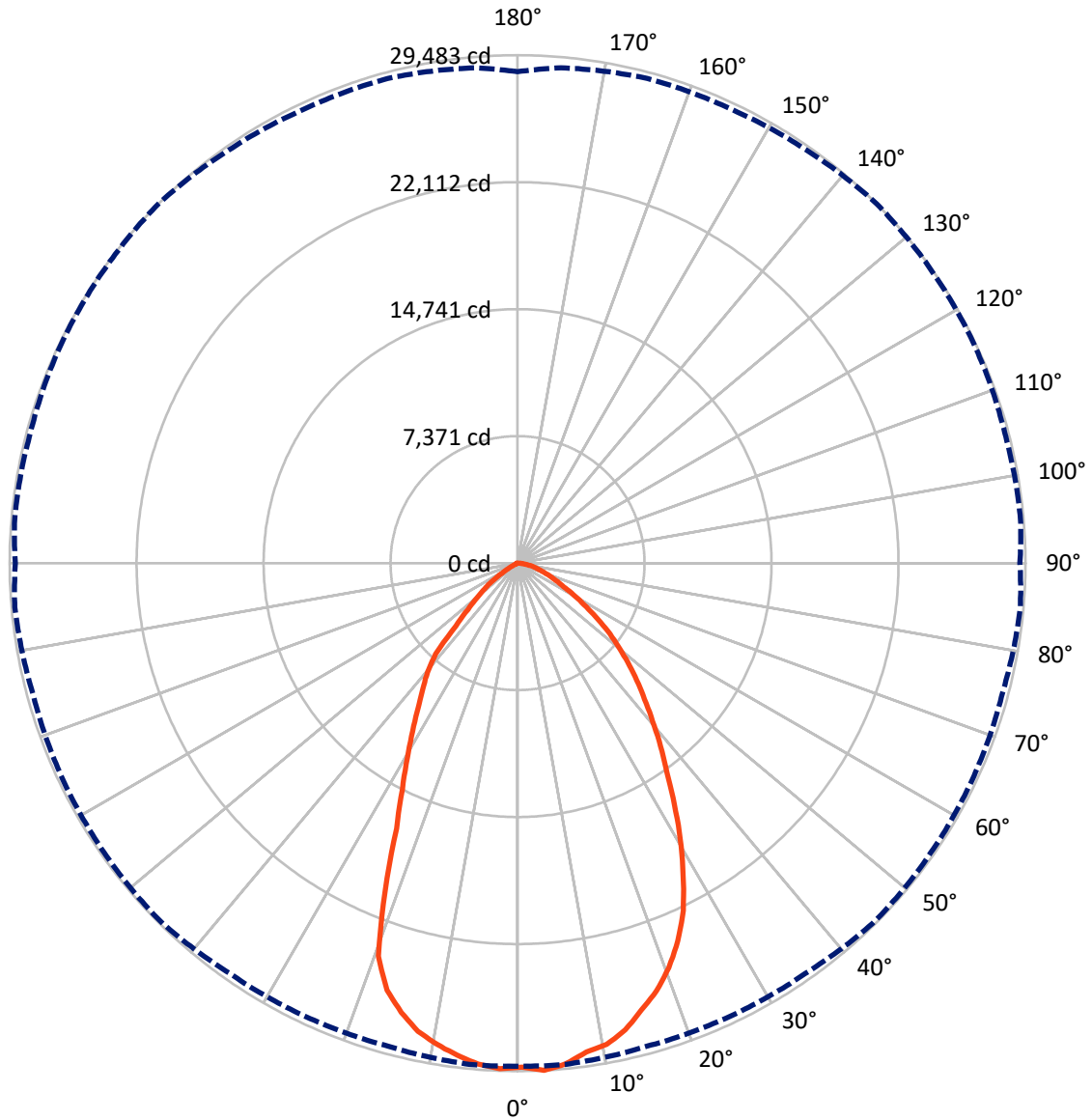
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 73.1 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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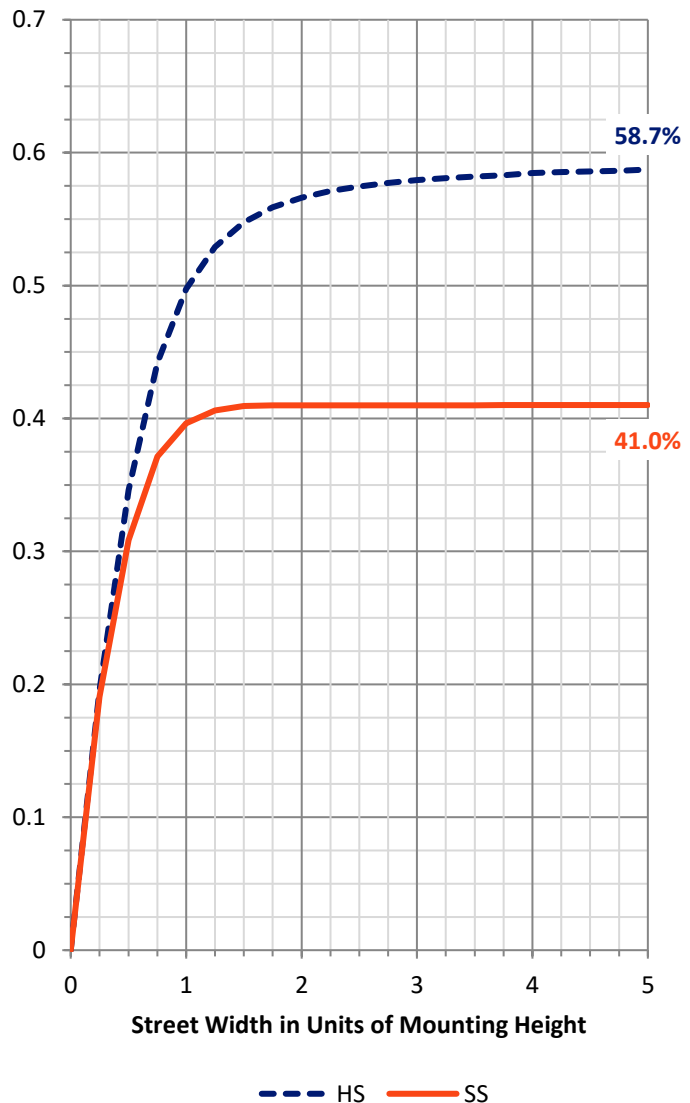
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	22763.8	0.0	22763.8
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	15672.3	0.0	15672.3
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	38436.0	0.0	38436.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2743.2	7.1
10°-20°	7356.0	19.1
20°-30°	8971.0	23.3
30°-40°	8190.4	21.3
40°-50°	5919.0	15.4
50°-60°	3231.9	8.4
60°-70°	1336.3	3.5
70°-80°	541.2	1.4
80°-90°	147.2	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°	38436.0	100.0
0°-180°	38436.0	100.0



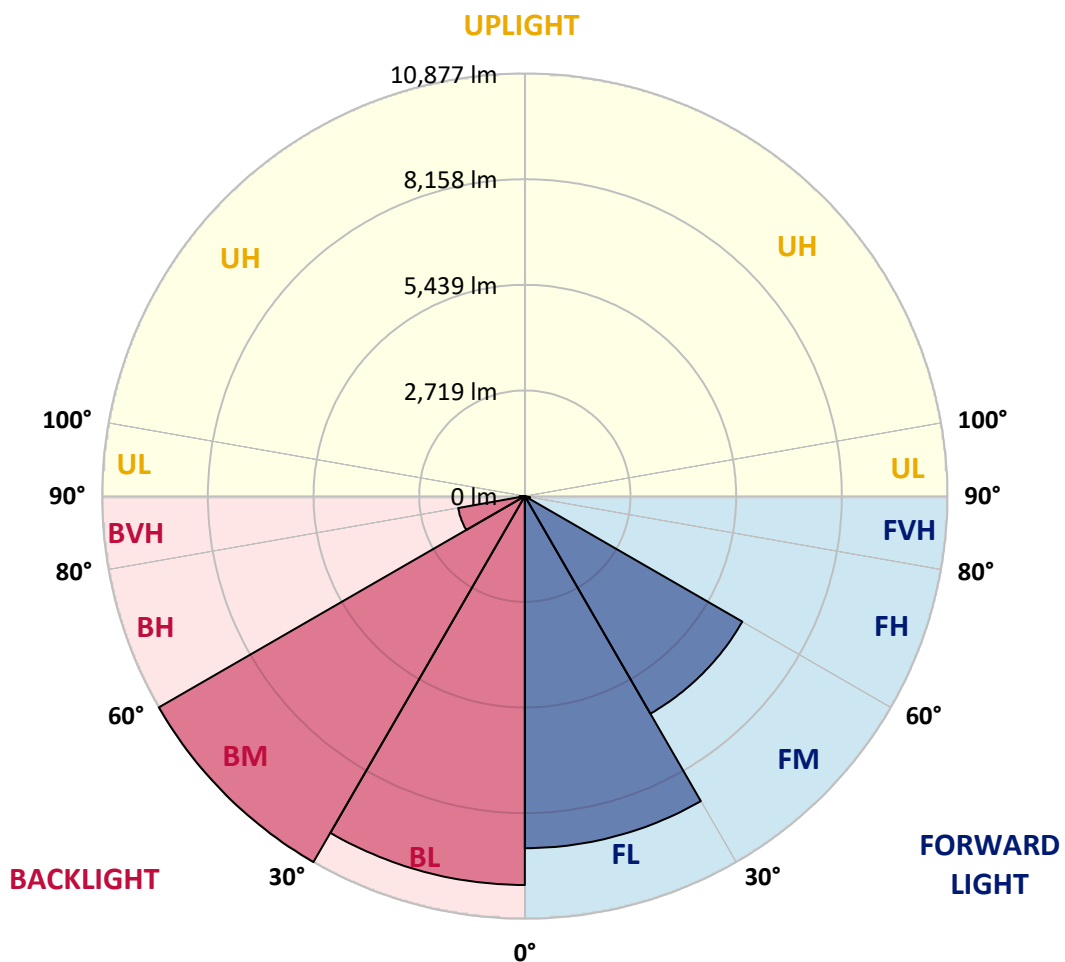
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9060.8	23.6			
FM (30°-60°)	6464.2	16.8			
FH (60°-80°)	135.4	0.4			G0/660
FVH (80°-90°)	11.8	0.0			G1/100
BL (0°-30°)	10009.3	26.0	B5		
BM (30°-60°)	10877.1	28.3	B5		
BH (60°-80°)	1742.0	4.5	B3/2500		G3/2500
BVH (80°-90°)	135.4	0.4			G2/225
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°	29249.7	29249.7	29249.7	29249.7	29249.7	29249.7	29249.7	29249.7	29249.7	29249.7
2.5°	29195.6	29233.5	29027.8	29049.4	29087.3	29363.4	29293.0	29228.1	29136.0	29293.0
5°	29157.7	29179.3	28962.8	28887.1	28919.5	29168.5	28941.2	28941.2	28919.5	28892.5
7.5°	28865.4	28876.2	28708.5	28573.1	28659.7	28773.4	28605.6	28686.8	28567.7	28659.7
10°	28427.0	28356.6	28156.4	28118.5	28215.9	28324.2	28210.5	28286.3	28178.0	28248.4
12.5°	27782.9	27674.6	27512.3	27463.6	27631.3	27777.5	27685.5	27642.2	27501.4	27674.6
15°	25298.5	25217.3	25585.4	26229.5	26808.6	26933.1	26835.7	26879.0	26586.7	26635.4
17.5°	20822.3	20670.7	21065.9	22592.2	24768.1	25915.5	25828.9	25547.5	25114.5	25211.9
20°	18922.5	18879.2	18835.9	19198.5	20719.4	24199.8	24318.8	23604.4	22987.3	22852.0
22.5°	17850.8	17834.5	17791.2	17872.4	18273.0	20508.4	21872.3	21212.0	20800.6	20762.7
25°	16871.1	16844.0	16714.1	16817.0	16817.0	16946.9	18695.1	19095.7	18733.0	18689.7
27.5°	15875.2	15826.5	15804.8	15853.5	15604.5	14727.7	15171.5	17125.5	16936.0	16946.9
30°	14798.1	14781.8	14722.3	14825.1	14056.5	12968.6	12687.1	15339.3	15377.2	15366.4
32.5°	13195.9	13266.3	13536.9	13650.6	12384.0	11485.5	11014.6	13271.7	14045.7	14029.5
35°	9585.7	9585.7	10468.0	12108.0	10852.3	10175.7	9921.3	11252.8	12730.4	12784.6
37.5°	7880.8	7907.8	8081.0	8828.0	9363.8	9125.7	9049.9	9472.1	11041.7	11128.3
40°	7090.5	7090.5	7090.5	6782.0	6765.8	8221.7	8178.4	8043.1	9537.0	9726.4
42.5°	6370.6	6386.9	6397.7	5618.3	5185.3	7106.7	7009.3	6803.6	8189.3	8411.2
45°	5629.1	5656.2	5688.6	4698.1	4508.7	5114.9	5932.2	5704.9	6857.8	7144.6
47.5°	3437.0	3480.3	4216.4	3983.7	4005.3	3945.8	4838.9	4801.0	5623.7	6029.6
50°	2322.0	2338.2	2408.6	2527.7	3437.0	3101.4	3426.2	3972.9	4270.5	4887.6
52.5°	1948.5	1975.6	1802.4	1640.0	2257.1	2424.8	2392.4	2949.9	3068.9	3832.1
55°	1369.4	1456.0	1374.8	1358.6	1282.8	1883.6	1813.2	2267.9	2343.7	2912.0
57.5°	140.7	162.4	281.5	1012.2	839.0	1066.3	1293.6	1661.7	1737.4	2148.8
60°	10.8	10.8	27.1	140.7	611.6	638.7	893.1	1023.0	1169.1	1499.3
62.5°	0.0	5.4	10.8	21.7	97.4	341.0	449.2	535.8	703.6	968.9
65°	0.0	0.0	5.4	16.2	21.7	129.9	173.2	281.5	384.3	600.8
67.5°	0.0	0.0	5.4	10.8	16.2	32.5	59.5	102.8	205.7	341.0
70°	0.0	0.0	5.4	10.8	16.2	27.1	43.3	65.0	92.0	184.0
72.5°	0.0	0.0	5.4	5.4	10.8	27.1	32.5	43.3	65.0	92.0
75°	0.0	0.0	5.4	5.4	16.2	32.5	27.1	32.5	43.3	59.5
77.5°	0.0	0.0	5.4	10.8	16.2	32.5	27.1	32.5	32.5	37.9
80°	0.0	0.0	5.4	10.8	21.7	37.9	32.5	32.5	27.1	27.1
82.5°	0.0	0.0	5.4	16.2	21.7	48.7	48.7	43.3	21.7	16.2
85°	0.0	0.0	10.8	21.7	32.5	54.1	54.1	43.3	16.2	10.8
87.5°	0.0	0.0	10.8	16.2	27.1	37.9	54.1	43.3	16.2	5.4
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°
29249.7	0°	29249.7	29249.7	29249.7	29249.7	29249.7	29249.7	29249.7	29249.7	29249.7
29157.7	2.5°	29303.8	29271.4	29379.6	29422.9	29482.5	29255.1	29114.4	29119.8	28860.0
28827.5	5°	29000.7	29006.1	29146.9	29136.0	29195.6	29071.1	29017.0	28925.0	28697.6
28410.8	7.5°	28616.4	28567.7	28703.0	28805.9	28654.3	28740.9	28616.4	28659.7	28524.4
28042.7	10°	28318.7	28205.1	28329.6	28399.9	28405.3	28318.7	28199.7	28086.0	28037.3
27469.0	12.5°	27658.4	27512.3	27723.4	27820.8	27804.5	27636.8	27501.4	27528.5	27371.5
26462.2	15°	26749.1	26754.5	26906.1	26998.1	26911.5	26873.6	26884.4	26819.5	26684.1
25071.2	17.5°	25358.0	25439.2	25839.8	26061.7	26110.4	26034.6	25996.7	25921.0	25785.6
22852.0	20°	23041.5	23528.6	24243.1	24930.5	25065.8	25044.1	24908.8	24876.3	24800.6
20654.5	22.5°	21006.3	21369.0	22197.1	23268.8	23820.9	23875.0	23712.6	23663.9	23582.7
18689.7	25°	18900.8	19290.5	20037.5	21201.2	22343.2	22576.0	22548.9	22402.8	22316.2
16946.9	27.5°	17125.5	17515.2	18191.8	19241.8	20465.1	21212.0	21282.4	21049.6	21044.2
15393.4	30°	15523.3	16059.2	16573.4	17428.6	18613.9	19734.4	19853.4	19691.1	19707.3
13969.9	32.5°	14267.6	14711.5	15149.9	15723.6	16708.7	18013.1	18478.6	18327.1	18267.5
12784.6	35°	12984.8	13287.9	13737.2	14262.2	14933.4	16227.0	17033.5	16919.8	16860.3
11182.4	37.5°	11523.4	12043.0	12367.8	12957.8	13482.8	14511.2	15647.8	15631.6	15507.1
9818.5	40°	10024.1	10570.8	11063.4	11658.7	12064.7	12882.0	14143.1	14137.7	14154.0
8405.8	42.5°	8665.6	9169.0	9764.3	10413.8	10803.6	11398.9	12752.1	12827.9	12919.9
7242.1	45°	7436.9	7891.6	8443.7	9233.9	9704.8	10045.8	11247.4	11593.8	11588.4
6202.8	47.5°	6332.7	6760.3	7225.8	7994.4	8595.2	8903.7	9899.7	10392.2	10359.7
5087.8	50°	5315.2	5694.1	6181.2	6738.7	7545.2	7815.8	8557.3	9206.8	9158.1
4054.0	52.5°	4276.0	4801.0	5212.3	5721.1	6570.9	6836.1	7409.9	8043.1	8005.2
3041.9	55°	3334.2	3842.9	4340.9	4779.3	5493.8	5888.9	6300.3	6949.8	6939.0
2381.5	57.5°	2522.3	3079.8	3550.7	3967.4	4535.8	5022.9	5353.1	5943.0	6018.8
1629.2	60°	1867.3	2294.9	2803.7	3269.2	3718.5	4221.8	4443.7	5022.9	5055.4
1115.0	62.5°	1272.0	1742.9	2240.8	2663.0	2998.6	3518.2	3718.5	4194.8	4254.3
714.5	65°	882.3	1185.4	1753.7	2056.8	2468.1	2912.0	3112.2	3491.1	3610.2
411.4	67.5°	584.6	844.4	1369.4	1645.4	2051.4	2354.5	2608.9	2917.4	3047.3
259.8	70°	319.3	622.4	979.7	1299.0	1650.8	1943.1	2192.1	2441.1	2554.7
119.1	72.5°	216.5	416.8	682.0	1028.4	1331.5	1618.4	1840.3	2024.3	2029.7
70.4	75°	108.3	281.5	519.6	795.7	1039.2	1320.7	1520.9	1629.2	1499.3
43.3	77.5°	65.0	205.7	422.2	638.7	844.4	1066.3	1179.9	1239.5	1028.4
32.5	80°	37.9	146.1	330.2	508.8	584.6	784.8	893.1	909.3	687.4
21.7	82.5°	27.1	108.3	259.8	373.5	357.2	552.1	671.2	649.5	438.4
16.2	85°	16.2	75.8	162.4	232.7	216.5	362.6	389.7	400.5	254.4
10.8	87.5°	10.8	43.3	86.6	124.5	102.8	157.0	157.0	189.4	124.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
29249.7
28524.4
28643.5
28297.1
27820.8
27236.2
26548.8
25726.1
24627.3
23561.1
22224.2
21033.4
19626.1
18273.0
16779.1
15609.9
14154.0
12871.2
11599.2
10370.5
9201.4
8086.4
6966.0
5986.3
5104.1
4265.1
3583.1
3031.1
2511.4
1981.0
1401.9
990.5
644.1
405.9
232.7
108.3
0.0

(END OF REPORT)