

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: P637692

Luminaire Tested: **IFLD-L-SA8C-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637692
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8C-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48680.6 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

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



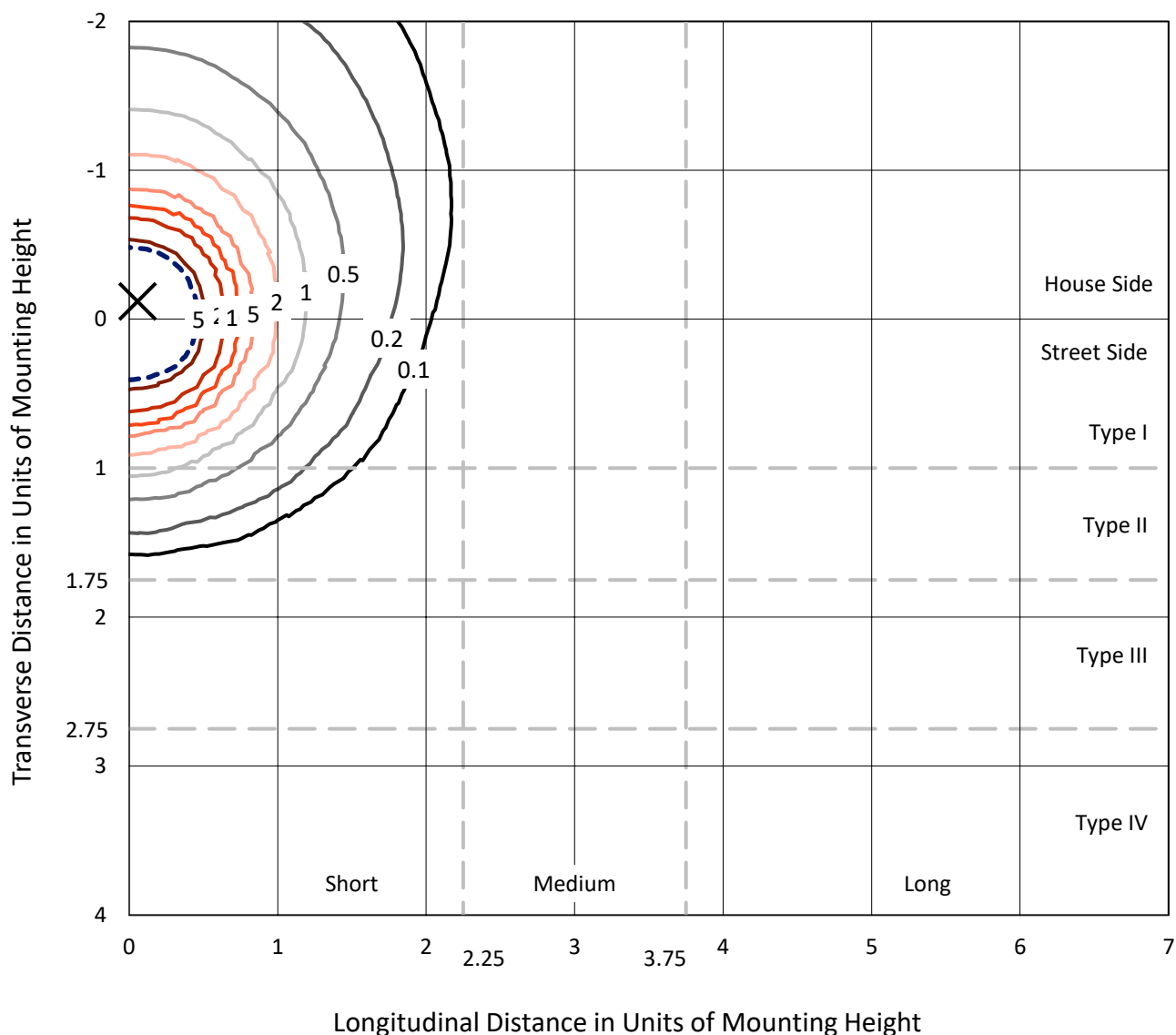
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

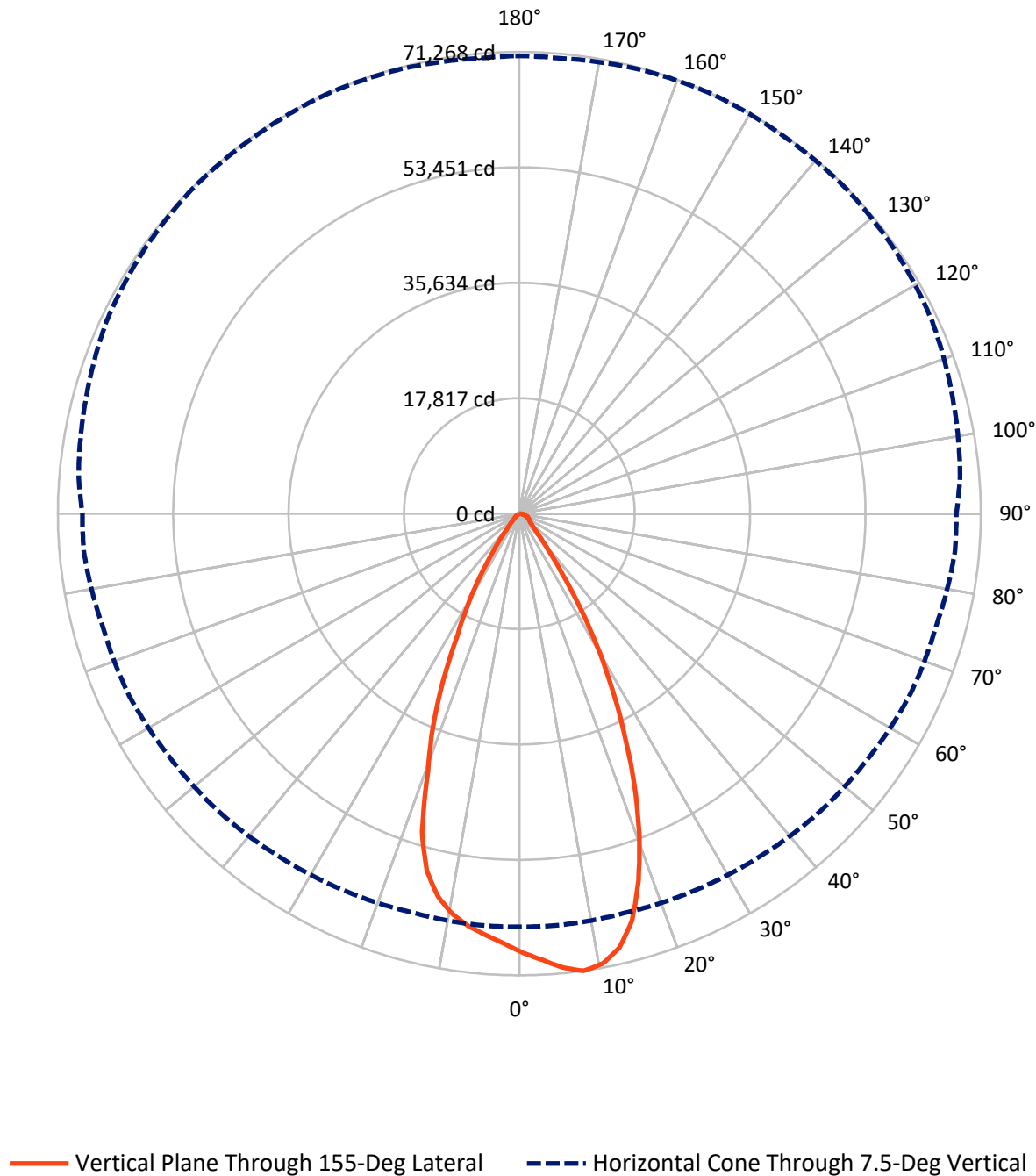


Based on 20 foot mounting height. Maximum calculated value = 172.3 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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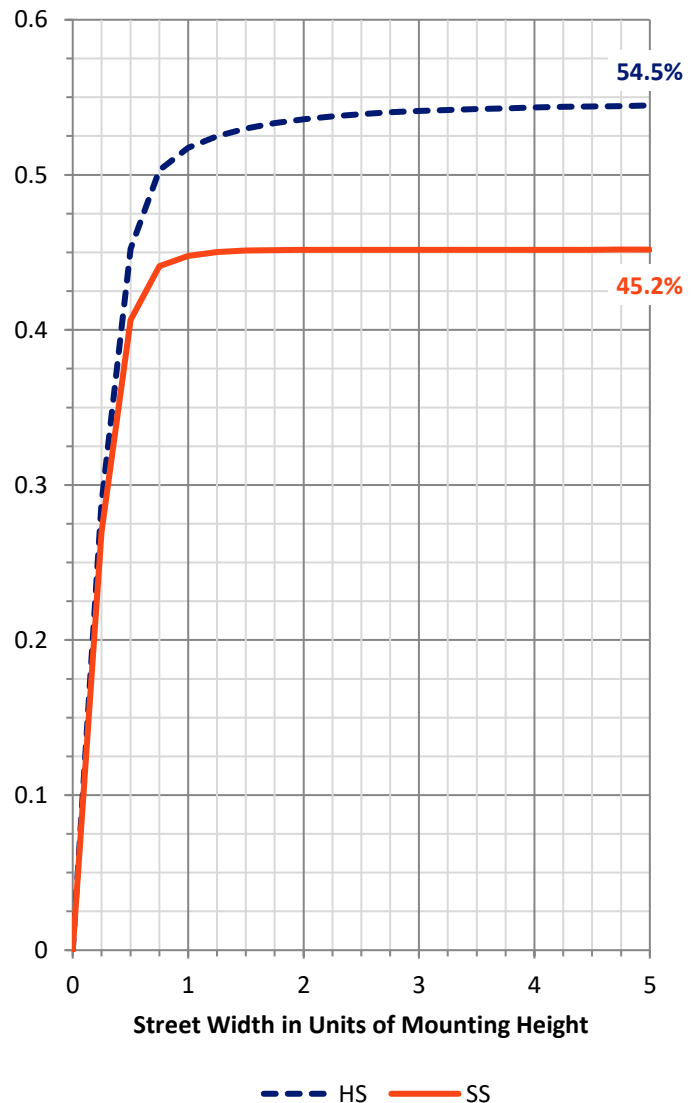
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	26873.5	0.0	26873.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	21807.1	0.0	21807.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	48680.6	0.0	48680.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6466.7	13.3
10°-20°	16768.1	34.4
20°-30°	15364.3	31.6
30°-40°	6207.2	12.8
40°-50°	1820.9	3.7
50°-60°	1018.1	2.1
60°-70°	618.4	1.3
70°-80°	314.2	0.6
80°-90°	102.8	0.2
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°	48680.6	100.0
0°-180°	48680.6	100.0

Coefficient of Utilization



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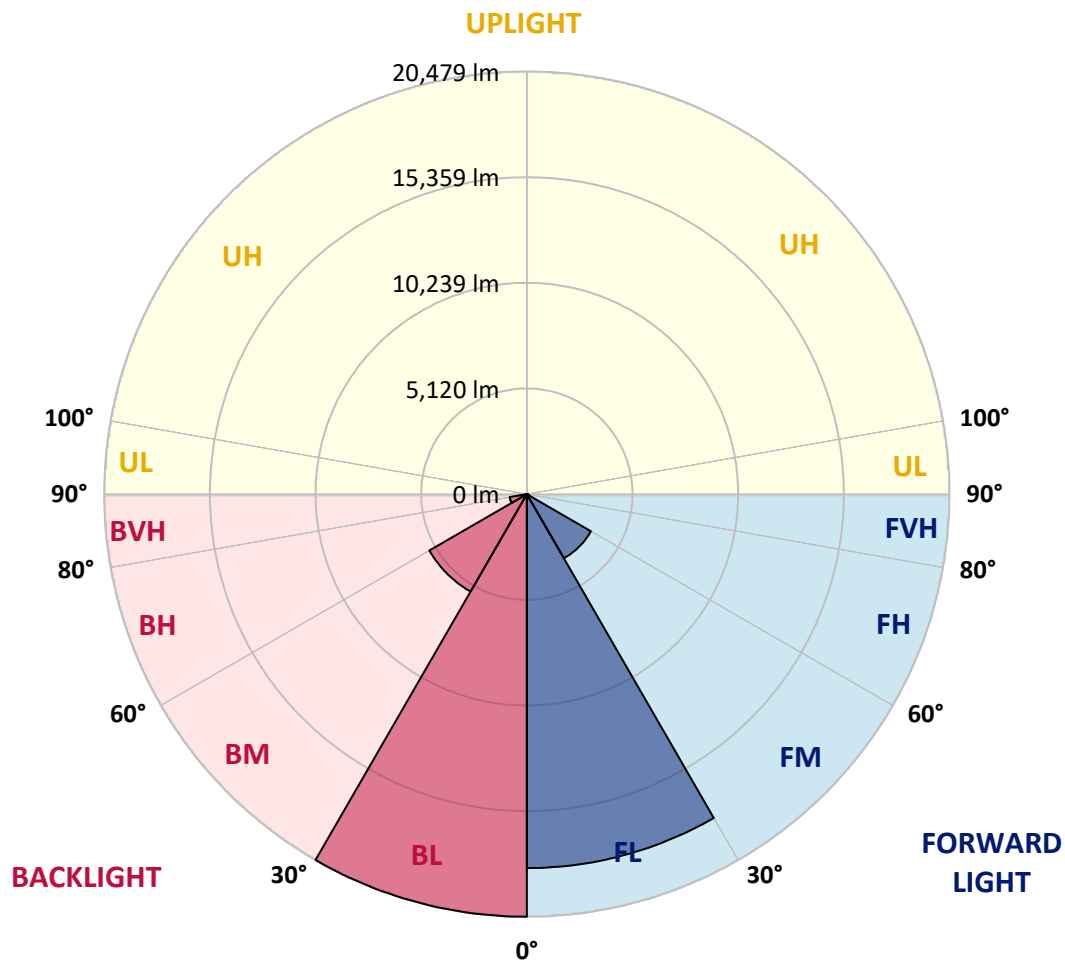
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	18120.2	37.2			
FM	(30°-60°)	3591.1	7.4			
FH	(60°-80°)	87.0	0.2			G0/660
FVH	(80°-90°)	8.9	0.0			G0/10
BL	(0°-30°)	20479.0	42.1	B5		
BM	(30°-60°)	5455.1	11.2	B4/8500		
BH	(60°-80°)	845.6	1.7	B2/1000		G2/1000
BVH	(80°-90°)	93.8	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	67815.9	67815.9	67815.9	67815.9	67815.9	67815.9	67815.9	67815.9	67815.9	67815.9
2.5°	66345.1	66569.7	66120.6	66418.1	66648.3	67198.4	67243.3	67434.1	67501.5	68001.1
5°	65087.7	65261.7	64896.9	65295.4	65621.0	66109.4	66485.5	67013.1	67305.0	67894.4
7.5°	63779.8	63819.1	63746.1	64167.1	64655.5	65329.1	65795.0	66485.5	66665.1	67507.1
10°	62196.8	61910.5	62050.9	62668.3	63398.1	64431.0	64750.9	65441.4	65761.3	66620.2
12.5°	59670.8	59816.7	59642.7	60428.6	61034.8	62208.0	62544.8	63240.9	63852.8	64610.6
15°	56111.9	56027.6	56381.3	56993.2	57649.9	58581.8	59126.3	59884.1	60350.0	61135.9
17.5°	48112.7	48399.0	49858.5	51391.0	52738.2	53827.2	54478.3	55107.0	55443.9	56297.1
20°	41550.6	41191.4	41387.8	42252.3	46086.3	47753.5	48438.3	48589.9	48730.2	49403.8
22.5°	34213.9	34096.0	34752.7	35723.9	36633.2	40478.4	41410.3	41056.6	41348.5	41982.8
25°	25406.4	26001.4	26585.2	28448.9	29627.7	31513.8	33282.0	33439.2	33545.9	33944.4
27.5°	20679.9	20472.2	20461.0	20983.0	22723.2	24294.9	25799.3	26147.4	26085.6	26467.3
30°	16256.5	16189.1	15953.4	16076.9	15902.8	17300.6	18007.9	19439.3	19360.7	19371.9
32.5°	11726.5	11473.9	11378.4	11563.7	11384.0	11254.9	11872.4	13489.1	13461.0	13573.3
35°	7095.4	7061.7	7140.3	7303.1	6943.8	6932.6	7061.7	8582.9	8768.2	8947.8
37.5°	3918.2	3884.5	3946.2	4546.9	4429.0	4322.3	4356.0	5158.7	5692.0	5826.7
40°	2582.2	2576.6	2621.5	2728.1	2930.2	2890.9	2907.8	3267.0	3772.2	3890.1
42.5°	1728.9	1734.5	1762.6	1886.1	1914.2	2116.3	2082.6	2166.8	2638.3	2739.4
45°	1380.9	1375.3	1392.1	1336.0	1369.7	1577.4	1599.8	1605.4	2009.6	2071.4
47.5°	1089.0	1089.0	1105.8	1032.9	1016.0	1145.1	1263.0	1279.9	1605.4	1689.6
50°	763.4	763.4	847.6	813.9	853.2	892.5	1021.6	1038.5	1313.5	1403.4
52.5°	561.3	572.6	583.8	589.4	718.5	712.9	825.2	903.8	993.6	1150.8
55°	426.6	437.8	409.8	437.8	533.3	595.0	617.5	729.7	791.5	965.5
57.5°	280.7	308.7	286.3	336.8	359.3	460.3	494.0	600.6	639.9	791.5
60°	39.3	44.9	73.0	235.8	252.6	303.1	381.7	477.1	516.4	645.5
62.5°	5.6	5.6	16.8	39.3	168.4	202.1	286.3	331.2	381.7	482.8
65°	0.0	0.0	5.6	11.2	33.7	117.9	145.9	179.6	263.8	348.0
67.5°	0.0	0.0	5.6	11.2	16.8	39.3	61.7	117.9	151.6	241.4
70°	0.0	0.0	5.6	11.2	16.8	22.5	33.7	44.9	89.8	140.3
72.5°	0.0	0.0	5.6	11.2	16.8	22.5	28.1	33.7	39.3	89.8
75°	0.0	0.0	5.6	11.2	16.8	28.1	33.7	33.7	33.7	39.3
77.5°	0.0	0.0	5.6	11.2	22.5	33.7	39.3	33.7	28.1	28.1
80°	0.0	0.0	5.6	16.8	28.1	39.3	44.9	33.7	22.5	16.8
82.5°	0.0	0.0	5.6	16.8	28.1	39.3	44.9	39.3	22.5	16.8
85°	0.0	0.0	5.6	16.8	22.5	28.1	44.9	39.3	22.5	11.2
87.5°	0.0	0.0	0.0	5.6	5.6	11.2	22.5	16.8	11.2	5.6
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°
67815.9	0°	67815.9	67815.9	67815.9	67815.9	67815.9	67815.9	67815.9	67815.9	67815.9
67989.9	2.5°	68495.1	68747.7	69191.1	69314.6	69696.4	69258.5	69017.1	69039.6	68517.5
67821.5	5°	68495.1	69073.3	69847.9	70218.4	70499.1	70476.6	70414.9	70257.7	69876.0
67484.7	7.5°	68315.4	69258.5	70325.1	70819.0	71155.8	71127.8	71268.1	71015.5	70549.6
66884.0	10°	67737.3	68556.8	69870.4	70274.5	70819.0	70830.3	70656.2	70706.8	69876.0
64689.2	12.5°	65918.5	66558.4	67709.2	68169.5	68831.9	68938.5	68747.7	68674.7	67888.8
61091.0	15°	62398.9	62769.4	63925.7	64386.0	65042.8	64953.0	65143.9	65065.3	64374.8
56229.7	17.5°	57251.4	57369.3	58581.8	58969.1	59586.6	59827.9	59541.7	59906.5	59311.5
49521.7	20°	49869.7	50504.0	51868.1	52463.1	52822.4	53254.6	52878.5	53288.3	52592.2
41382.2	22.5°	42381.4	42757.5	43992.5	44851.3	45519.3	45603.5	45463.2	45749.5	44812.0
34208.2	25°	34202.6	34825.7	35802.5	36925.1	37581.9	37986.1	37621.2	37806.5	37654.9
26529.1	27.5°	26978.1	27533.9	28269.2	29105.6	30093.6	30621.3	30329.4	30643.7	29902.7
19781.7	30°	19798.6	20079.2	20910.0	21797.0	22880.3	23520.3	23548.3	23868.3	23430.5
13859.6	32.5°	13960.6	14207.6	14718.4	15307.8	16340.7	17053.6	16941.3	16986.2	16716.8
9032.0	35°	9076.9	9408.1	9773.0	10053.7	10676.7	11462.6	11400.9	11344.7	11159.5
5939.0	37.5°	6068.1	6197.2	6399.3	6651.9	7056.1	7550.1	7712.9	7510.8	7432.2
4008.0	40°	4103.4	4328.0	4462.7	4653.5	4844.4	5259.8	5372.1	5332.8	5254.2
2806.7	42.5°	2913.4	3087.4	3255.8	3441.0	3542.1	3800.3	4019.2	3957.5	3923.8
2133.1	45°	2211.7	2368.9	2565.3	2705.7	2806.7	2958.3	3166.0	3188.4	3137.9
1712.1	47.5°	1773.8	1914.2	2071.4	2245.4	2363.3	2458.7	2638.3	2705.7	2672.0
1442.7	50°	1504.4	1611.1	1762.6	1936.6	2065.7	2149.9	2307.1	2380.1	2357.6
1206.9	52.5°	1279.9	1409.0	1549.3	1695.3	1852.4	1936.6	2082.6	2189.2	2172.4
999.2	55°	1060.9	1229.3	1375.3	1521.2	1700.9	1785.1	1914.2	2054.5	2026.4
847.6	57.5°	926.2	1066.6	1218.1	1358.5	1549.3	1661.6	1779.5	1925.4	1919.8
696.1	60°	774.7	915.0	1083.4	1201.3	1403.4	1560.5	1667.2	1818.8	1830.0
527.7	62.5°	617.5	791.5	920.6	1083.4	1268.6	1453.9	1554.9	1706.5	1762.6
404.2	65°	460.3	651.2	797.1	959.9	1133.9	1341.6	1431.4	1583.0	1639.1
291.9	67.5°	342.4	488.4	673.6	813.9	1010.4	1190.0	1296.7	1437.0	1476.3
174.0	70°	258.2	376.1	561.3	684.8	886.9	1032.9	1139.5	1246.2	1296.7
117.9	72.5°	151.6	280.7	443.5	589.4	763.4	886.9	965.5	1049.7	1083.4
56.1	75°	106.7	213.3	348.0	488.4	617.5	718.5	791.5	864.5	898.1
28.1	77.5°	56.1	157.2	275.1	392.9	482.8	567.0	639.9	696.1	718.5
22.5	80°	33.7	112.3	224.5	308.7	370.5	443.5	516.4	555.7	550.1
16.8	82.5°	22.5	89.8	162.8	224.5	269.4	325.6	376.1	404.2	404.2
11.2	85°	16.8	61.7	112.3	174.0	179.6	224.5	235.8	263.8	269.4
11.2	87.5°	11.2	39.3	61.7	101.0	95.4	117.9	123.5	140.3	151.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
67815.9
68096.5
69999.5
70656.2
69634.6
67709.2
64593.7
59165.6
52536.1
44682.9
37559.5
30093.6
23509.0
16868.4
10996.7
7415.3
5265.4
3895.7
3132.3
2655.2
2352.0
2161.2
2026.4
1914.2
1830.0
1757.0
1633.5
1476.3
1285.5
1072.2
886.9
712.9
544.5
398.6
263.8
145.9
0.0

(END OF REPORT)