

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: P636495

Luminaire Tested: **IFLD-M-SA4E-935-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636495
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-935-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19892.6 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 314.8
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



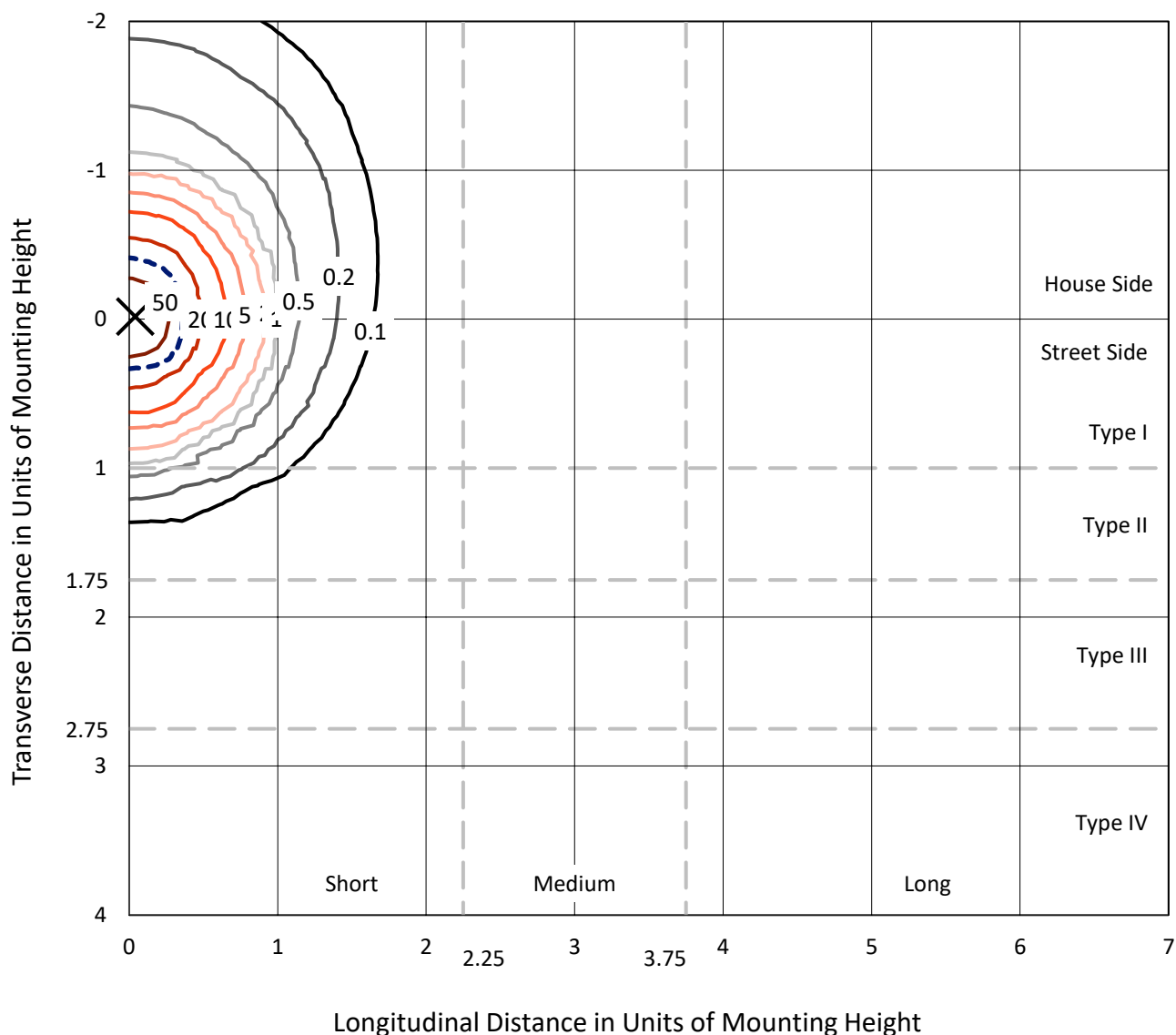
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

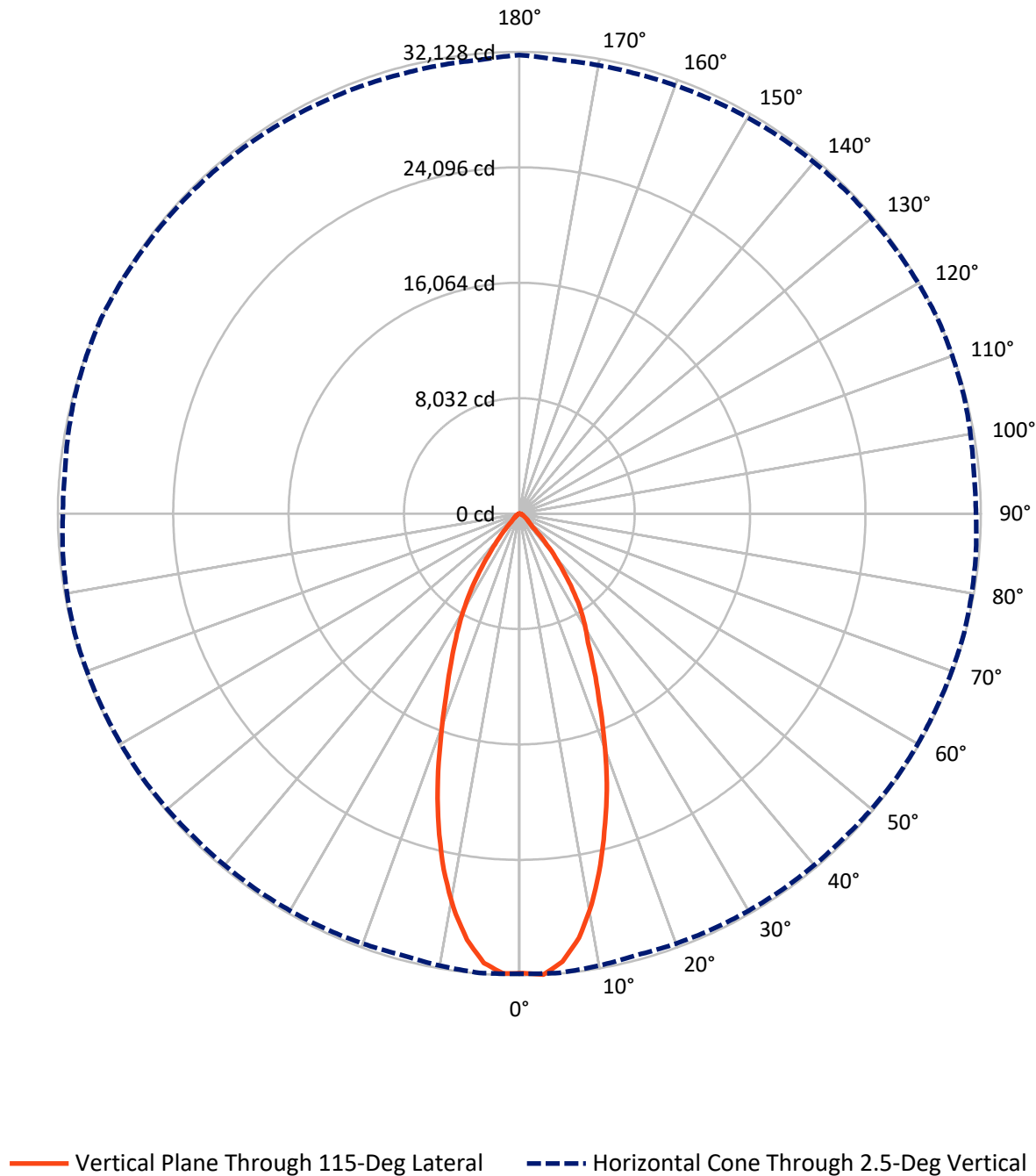


Based on 20 foot mounting height. Maximum calculated value = 79.9 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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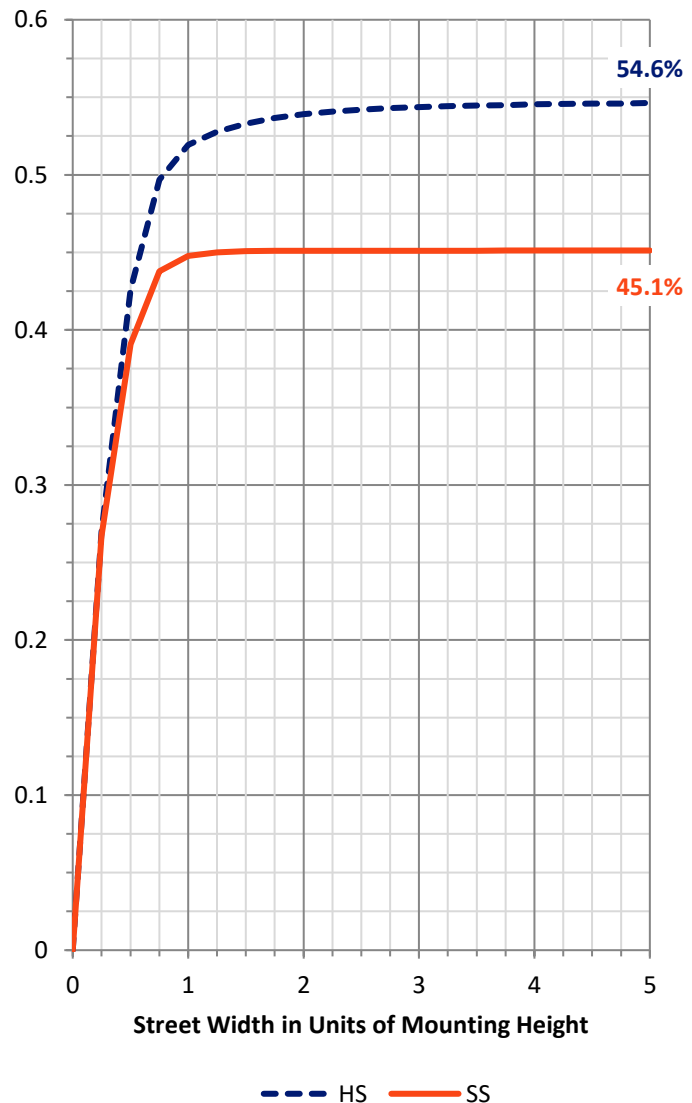
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10978.4	0.0	10978.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	8914.2	0.0	8914.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	19892.6	0.0	19892.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2868.1	14.4
10°-20°	6061.7	30.5
20°-30°	5471.1	27.5
30°-40°	3620.5	18.2
40°-50°	1084.6	5.5
50°-60°	435.1	2.2
60°-70°	225.3	1.1
70°-80°	97.8	0.5
80°-90°	28.5	0.1
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°	19892.6	100.0
0°-180°	19892.6	100.0

Coefficient of Utilization



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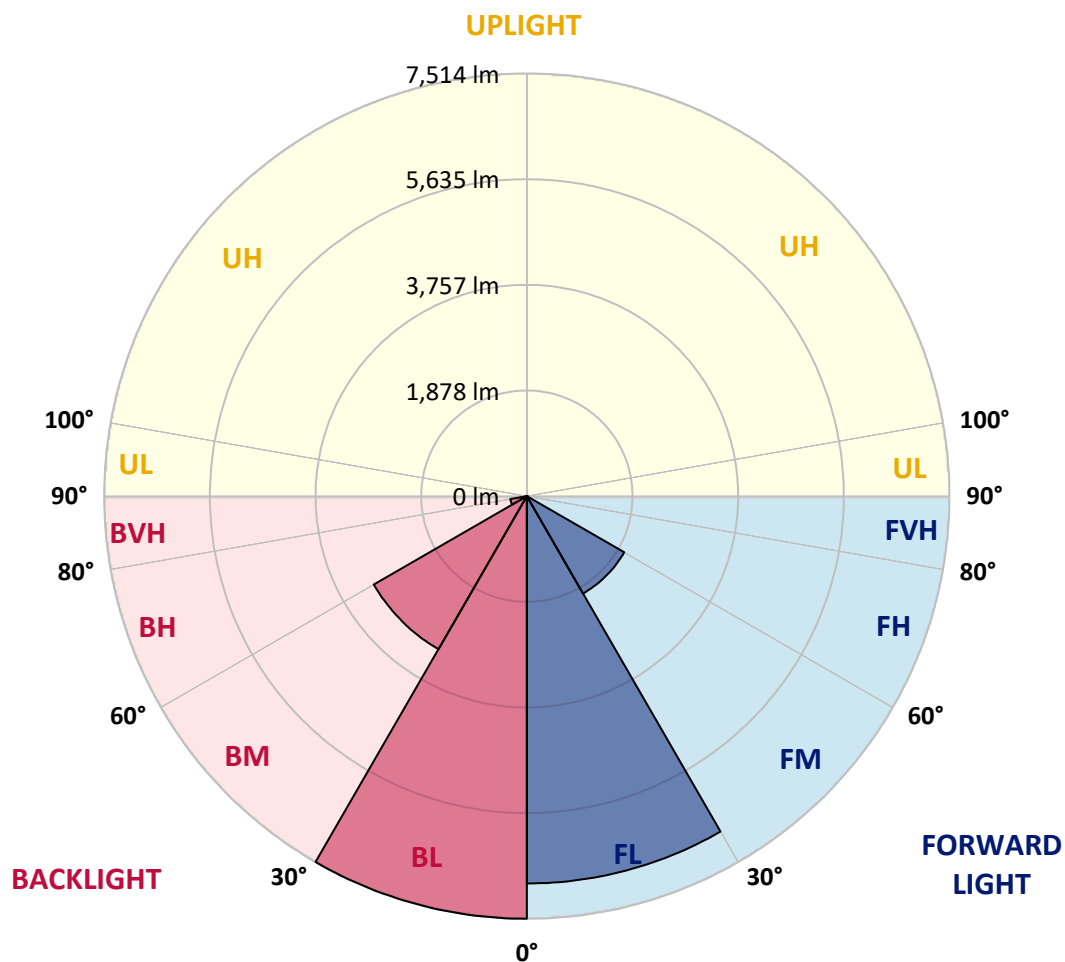
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6887.0	34.6			
FM	(30°-60°)	1998.4	10.0			
FH	(60°-80°)	24.7	0.1			G0/660
FVH	(80°-90°)	4.1	0.0			G0/10
BL	(0°-30°)	7513.9	37.8	B5		
BM	(30°-60°)	3141.8	15.8	B3/5000		
BH	(60°-80°)	298.3	1.5	B1/500		G1/500
BVH	(80°-90°)	24.4	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	31977.3	31977.3	31977.3	31977.3	31977.3	31977.3	31977.3	31977.3	31977.3	31977.3
2.5°	32018.0	32075.0	31790.2	31887.8	31928.5	31940.7	32042.4	32026.2	32054.6	31904.1
5°	31594.9	31485.1	31273.5	31277.6	31265.4	31151.5	31383.4	31367.1	31318.3	31139.3
7.5°	30154.7	30313.4	29914.7	29906.6	29898.4	29760.1	30065.2	29878.1	29918.8	29662.4
10°	28047.3	28067.6	27713.7	27681.2	27709.6	27530.6	27884.6	27811.3	27888.6	27620.1
12.5°	25463.9	25577.8	25187.2	25130.3	25244.2	24992.0	25276.8	25313.4	25199.5	25162.8
15°	19971.6	20272.7	21013.1	22144.1	22437.0	22225.5	22453.3	22449.2	22498.1	22221.4
17.5°	15215.7	15244.2	15069.2	15610.3	18743.0	19760.0	19808.9	19422.4	19129.5	19027.7
20°	13283.2	13380.9	13222.2	13266.9	13767.3	16749.5	16863.4	16281.6	15781.2	15740.5
22.5°	11745.4	11806.4	11692.5	11729.1	11753.5	12103.4	14084.7	13572.1	13332.0	13149.0
25°	10443.5	10443.5	10382.5	10394.7	10370.3	9853.6	10870.7	11456.5	11318.2	11253.1
27.5°	9255.5	9271.8	9194.5	9239.3	8942.3	8108.3	7986.2	9715.3	9568.8	9450.8
30°	8128.6	8181.5	8108.3	8132.7	7485.8	6802.3	6452.4	8104.2	8287.3	8254.7
32.5°	6118.8	6358.9	6948.8	6973.2	6094.4	5569.6	5415.0	6505.3	7201.0	7140.0
35°	3791.7	3779.5	3803.9	4975.6	4674.6	4316.5	4373.5	4914.6	5699.8	5671.3
37.5°	2892.6	2888.5	2933.3	2815.3	3063.5	3275.0	3319.8	3319.8	4161.9	4166.0
40°	2192.8	2176.6	2172.5	1985.4	1664.0	2457.3	2384.1	2323.0	2892.6	2953.6
42.5°	1399.5	1448.3	1411.7	1208.3	1086.3	1342.6	1497.2	1448.3	1786.0	1830.8
45°	781.1	781.1	748.6	634.7	630.6	679.4	854.4	797.4	915.4	976.4
47.5°	378.4	370.2	406.8	500.4	520.8	504.5	610.3	634.7	691.6	748.6
50°	305.1	305.1	288.9	260.4	431.2	415.0	451.6	484.1	516.7	565.5
52.5°	256.3	256.3	236.0	219.7	248.2	317.3	321.4	382.4	378.4	447.5
55°	130.2	134.3	191.2	191.2	166.8	260.4	264.4	309.2	317.3	374.3
57.5°	12.2	16.3	24.4	118.0	130.2	142.4	199.3	227.8	264.4	288.9
60°	4.1	4.1	8.1	16.3	77.3	97.6	126.1	150.5	183.1	240.0
62.5°	0.0	0.0	4.1	8.1	16.3	61.0	69.2	77.3	109.8	150.5
65°	0.0	0.0	4.1	4.1	8.1	20.3	28.5	48.8	69.2	93.6
67.5°	0.0	0.0	4.1	4.1	8.1	12.2	16.3	24.4	32.5	61.0
70°	0.0	0.0	4.1	4.1	8.1	12.2	12.2	16.3	20.3	28.5
72.5°	0.0	0.0	4.1	4.1	8.1	16.3	12.2	12.2	16.3	20.3
75°	0.0	0.0	4.1	4.1	8.1	12.2	12.2	12.2	12.2	12.2
77.5°	0.0	0.0	4.1	4.1	8.1	12.2	12.2	12.2	8.1	8.1
80°	0.0	0.0	4.1	4.1	8.1	12.2	16.3	16.3	8.1	8.1
82.5°	0.0	0.0	4.1	8.1	8.1	20.3	24.4	20.3	8.1	4.1
85°	0.0	0.0	4.1	4.1	12.2	20.3	20.3	12.2	8.1	4.1
87.5°	0.0	0.0	0.0	4.1	4.1	8.1	12.2	12.2	4.1	4.1
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°
31977.3	0°	31977.3	31977.3	31977.3	31977.3	31977.3	31977.3	31977.3	31977.3	31977.3
31782.1	2.5°	31765.8	32014.0	32127.9	32009.9	31952.9	31871.6	31753.6	31672.2	31688.5
31041.6	5°	30972.5	31232.8	31322.3	31220.6	31135.2	31090.4	31070.1	31110.8	31216.6
29552.6	7.5°	29544.5	29711.3	29808.9	29760.1	29642.1	29776.4	29813.0	29788.6	29943.2
27538.8	10°	27546.9	27730.0	27640.5	27660.8	27522.5	27591.7	27571.3	27660.8	27815.4
25134.4	12.5°	24971.6	25146.6	25077.4	25065.2	24918.7	25048.9	24967.6	25065.2	25268.6
22107.5	15°	22266.2	22376.0	22331.3	22262.1	22131.9	22176.7	22428.9	22412.6	22502.1
18966.7	17.5°	18885.4	19414.2	19703.1	19764.1	19658.3	19747.8	19926.9	19882.1	20085.5
15655.1	20°	15626.6	16159.5	16871.5	17449.2	17461.4	17473.6	17587.5	17616.0	17791.0
13153.0	22.5°	13096.1	13474.4	14239.3	15004.1	15533.0	15642.9	15630.7	15671.3	15720.2
11163.6	25°	11135.1	11411.8	12111.5	12640.4	13568.0	13877.2	13966.7	13877.2	13905.7
9410.1	27.5°	9515.9	9939.0	10170.9	10736.4	11643.7	12359.7	12331.2	12278.3	12286.5
8189.6	30°	8185.6	8641.2	8982.9	9153.8	9837.3	10870.7	10976.4	10825.9	10830.0
7111.5	32.5°	7066.7	7209.1	7713.6	7851.9	8291.3	9231.1	9593.2	9479.3	9458.9
5687.6	35°	5854.4	5931.7	6163.6	6436.2	6696.5	7408.5	8006.5	7900.8	7953.7
4182.3	37.5°	4166.0	4483.3	4707.1	4930.9	5118.0	5565.5	6285.6	6188.0	6240.9
2961.8	40°	2937.4	3079.8	3466.2	3563.9	3840.5	4048.0	4658.3	4625.7	4690.8
1838.9	42.5°	1806.4	1908.1	2103.3	2196.9	2384.1	2502.0	2860.1	2900.7	2986.2
1017.1	45°	1025.2	1070.0	1204.2	1305.9	1444.3	1493.1	1619.2	1676.2	1725.0
789.3	47.5°	781.1	829.9	919.5	1009.0	1122.9	1163.6	1253.1	1338.5	1383.2
610.3	50°	638.7	683.5	777.1	850.3	964.2	1000.8	1074.0	1167.6	1224.6
463.8	52.5°	484.1	549.2	663.1	740.4	858.4	903.2	972.3	1065.9	1118.8
382.4	55°	398.7	447.5	549.2	655.0	764.9	825.9	870.6	984.5	1041.5
313.3	57.5°	341.7	378.4	443.5	569.6	663.1	752.6	789.3	895.0	952.0
248.2	60°	260.4	317.3	374.3	471.9	577.7	671.3	712.0	805.5	850.3
179.0	62.5°	215.6	252.2	325.5	378.4	496.3	594.0	634.7	720.1	752.6
118.0	65°	150.5	203.4	272.6	305.1	415.0	508.5	565.5	630.6	663.1
69.2	67.5°	89.5	150.5	215.6	260.4	337.7	431.2	492.3	553.3	581.8
40.7	70°	57.0	118.0	170.9	219.7	264.4	353.9	427.2	480.1	467.9
24.4	72.5°	32.5	73.2	126.1	179.0	219.7	297.0	366.2	406.8	288.9
16.3	75°	20.3	52.9	105.8	146.5	179.0	236.0	301.1	309.2	179.0
8.1	77.5°	16.3	40.7	81.4	118.0	122.1	174.9	211.6	240.0	134.3
8.1	80°	8.1	32.5	69.2	97.6	77.3	122.1	162.7	187.1	105.8
4.1	82.5°	8.1	20.3	52.9	69.2	57.0	93.6	118.0	134.3	89.5
4.1	85°	4.1	16.3	28.5	40.7	40.7	61.0	52.9	65.1	57.0
4.1	87.5°	4.1	8.1	16.3	20.3	16.3	24.4	28.5	28.5	24.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
31977.3
31908.2
31436.3
30097.8
27876.4
25305.2
22522.5
20053.0
17754.3
15630.7
13860.9
12298.7
10834.1
9507.8
8002.5
6285.6
4715.2
3083.8
1720.9
1403.6
1249.0
1155.4
1057.8
976.4
858.4
756.7
663.1
577.7
431.2
256.3
166.8
134.3
109.8
97.6
57.0
20.3
0.0

(END OF REPORT)