

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: P637652

Luminaire Tested: **IFLD-M-SA4B-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637652
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21454 lumens
Efficiency: N/A
Efficacy: 129.2 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): 166.1
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



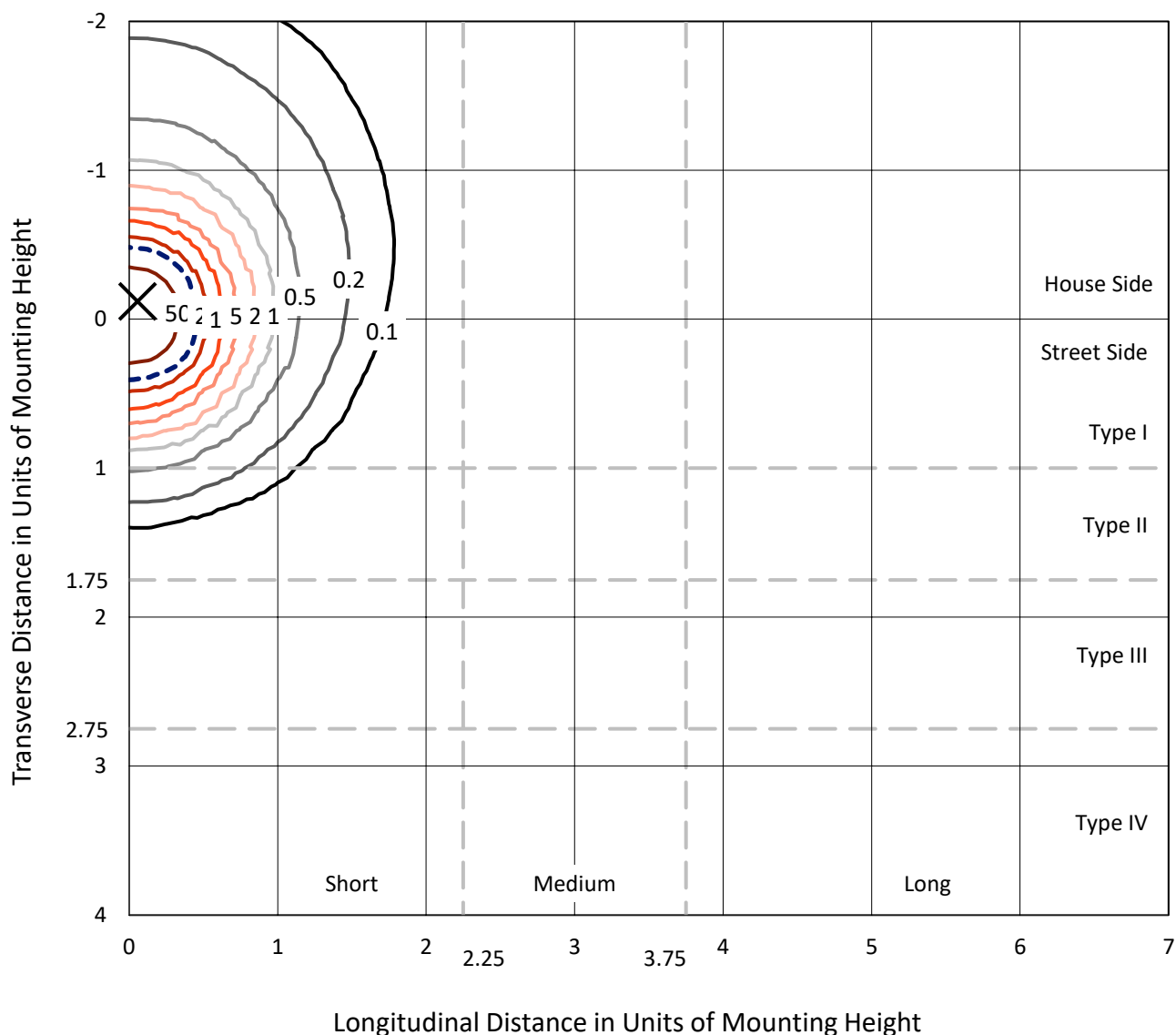
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

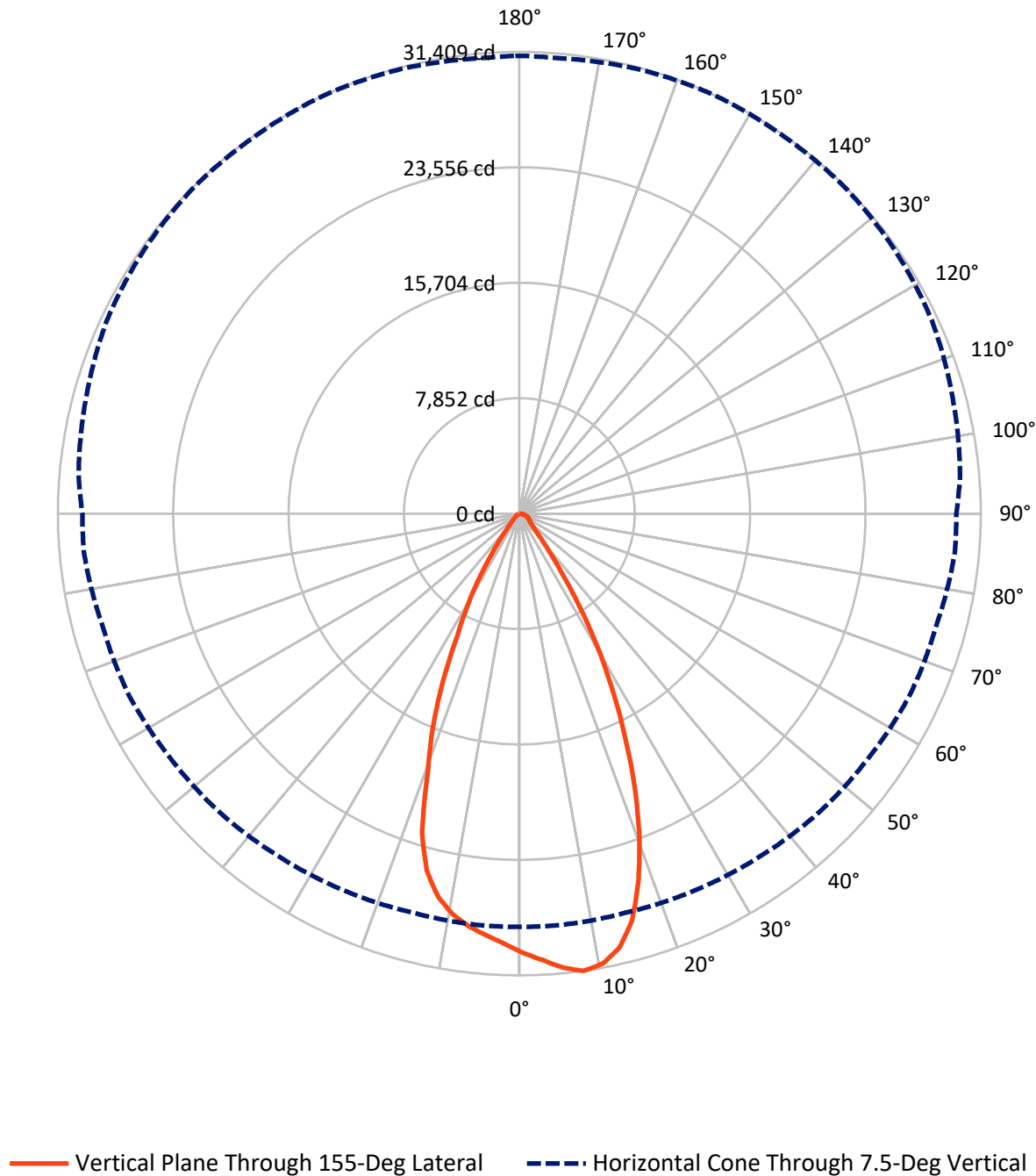


Based on 20 foot mounting height. Maximum calculated value = 76 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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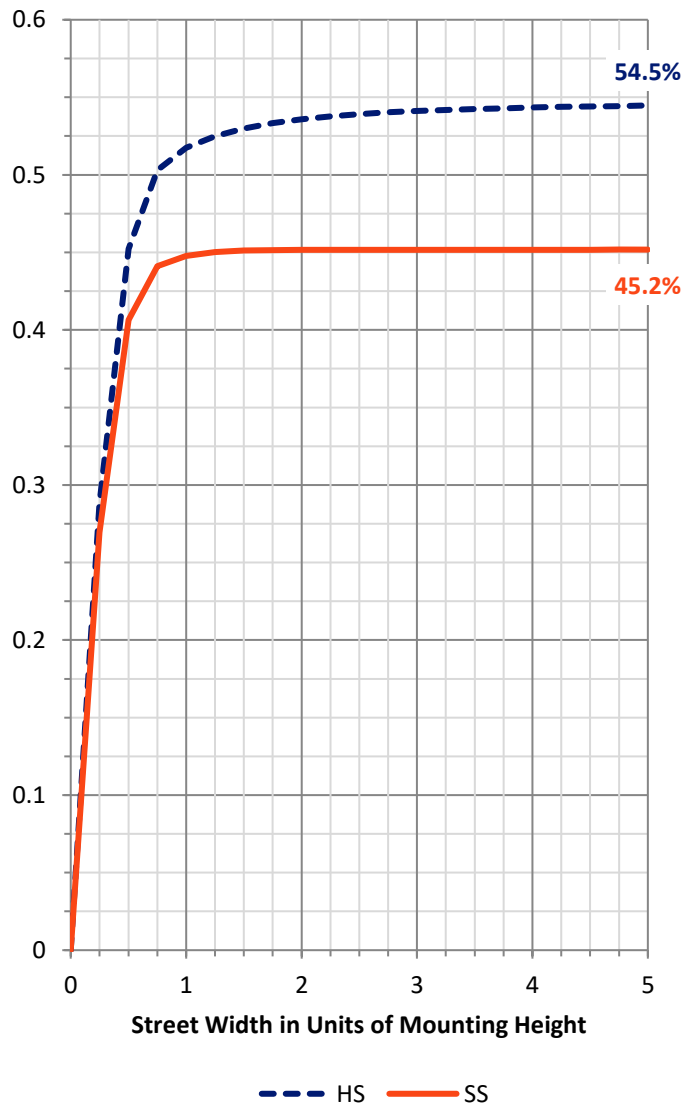
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11843.4	0.0	11843.4
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9610.6	0.0	9610.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	21454.0	0.0	21454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2849.9	13.3
10°-20°	7389.9	34.4
20°-30°	6771.2	31.6
30°-40°	2735.6	12.8
40°-50°	802.5	3.7
50°-60°	448.7	2.1
60°-70°	272.5	1.3
70°-80°	138.5	0.6
80°-90°	45.3	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°	21454.0	100.0
0°-180°	21454.0	100.0

Coefficient of Utilization



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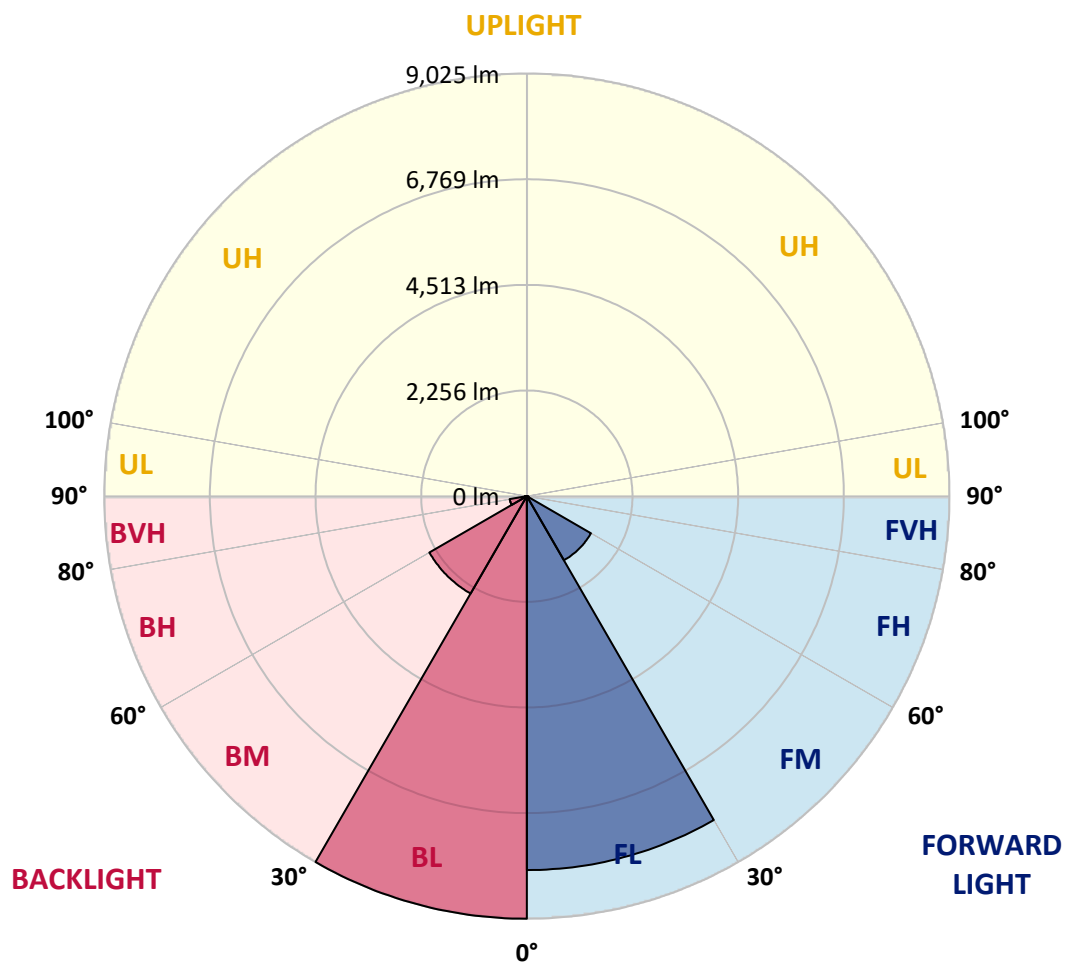
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7985.7	37.2			
FM	(30°-60°)	1582.6	7.4			
FH	(60°-80°)	38.3	0.2			G0/660
FVH	(80°-90°)	3.9	0.0			G0/10
BL	(0°-30°)	9025.3	42.1	B5		
BM	(30°-60°)	2404.1	11.2	B2/2500		
BH	(60°-80°)	372.7	1.7	B1/500		G1/500
BVH	(80°-90°)	41.4	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-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	29887.1	29887.1	29887.1	29887.1	29887.1	29887.1	29887.1	29887.1	29887.1	29887.1
2.5°	29239.0	29337.9	29140.0	29271.1	29372.6	29615.0	29634.8	29718.9	29748.6	29968.8
5°	28684.8	28761.5	28600.7	28776.4	28919.8	29135.1	29300.8	29533.4	29662.0	29921.8
7.5°	28108.4	28125.7	28093.6	28279.1	28494.3	28791.2	28996.5	29300.8	29380.0	29751.1
10°	27410.8	27284.6	27346.4	27618.6	27940.2	28395.4	28536.4	28840.7	28981.7	29360.2
12.5°	26297.5	26361.8	26285.1	26631.5	26898.7	27415.7	27564.1	27870.9	28140.6	28474.5
15°	24729.1	24692.0	24847.8	25117.5	25406.9	25817.6	26057.5	26391.5	26596.9	26943.2
17.5°	21203.8	21329.9	21973.1	22648.5	23242.3	23722.2	24009.2	24286.2	24434.7	24810.7
20°	18311.8	18153.4	18240.0	18621.0	20310.7	21045.4	21347.2	21414.0	21475.9	21772.8
22.5°	15078.4	15026.4	15315.9	15743.9	16144.6	17839.3	18249.9	18094.1	18222.7	18502.3
25°	11196.9	11459.1	11716.4	12537.7	13057.2	13888.5	14667.7	14737.0	14784.0	14959.6
27.5°	9113.8	9022.3	9017.4	9247.4	10014.3	10707.0	11370.0	11523.4	11496.2	11664.4
30°	7164.4	7134.7	7030.8	7085.2	7008.5	7624.5	7936.3	8567.1	8532.5	8537.4
32.5°	5168.0	5056.6	5014.6	5096.2	5017.1	4960.2	5232.3	5944.8	5932.4	5981.9
35°	3127.0	3112.2	3146.8	3218.5	3060.2	3055.3	3112.2	3782.6	3864.2	3943.4
37.5°	1726.8	1711.9	1739.1	2003.9	1951.9	1904.9	1919.7	2273.5	2508.5	2567.9
40°	1138.0	1135.5	1155.3	1202.3	1291.4	1274.1	1281.5	1439.8	1662.5	1714.4
42.5°	762.0	764.4	776.8	831.2	843.6	932.7	917.8	954.9	1162.7	1207.3
45°	608.6	606.1	613.5	588.8	603.6	695.2	705.1	707.5	885.7	912.9
47.5°	479.9	479.9	487.4	455.2	447.8	504.7	556.6	564.0	707.5	744.6
50°	336.4	336.4	373.6	358.7	376.0	393.3	450.2	457.7	578.9	618.5
52.5°	247.4	252.3	257.3	259.8	316.7	314.2	363.7	398.3	437.9	507.1
55°	188.0	193.0	180.6	193.0	235.0	262.2	272.1	321.6	348.8	425.5
57.5°	123.7	136.1	126.2	148.4	158.3	202.9	217.7	264.7	282.0	348.8
60°	17.3	19.8	32.2	103.9	111.3	133.6	168.2	210.3	227.6	284.5
62.5°	2.5	2.5	7.4	17.3	74.2	89.1	126.2	146.0	168.2	212.8
65°	0.0	0.0	2.5	4.9	14.8	52.0	64.3	79.2	116.3	153.4
67.5°	0.0	0.0	2.5	4.9	7.4	17.3	27.2	52.0	66.8	106.4
70°	0.0	0.0	2.5	4.9	7.4	9.9	14.8	19.8	39.6	61.8
72.5°	0.0	0.0	2.5	4.9	7.4	9.9	12.4	14.8	17.3	39.6
75°	0.0	0.0	2.5	4.9	7.4	12.4	14.8	14.8	14.8	17.3
77.5°	0.0	0.0	2.5	4.9	9.9	14.8	17.3	14.8	12.4	12.4
80°	0.0	0.0	2.5	7.4	12.4	17.3	19.8	14.8	9.9	7.4
82.5°	0.0	0.0	2.5	7.4	12.4	17.3	19.8	17.3	9.9	7.4
85°	0.0	0.0	2.5	7.4	9.9	12.4	19.8	17.3	9.9	4.9
87.5°	0.0	0.0	0.0	2.5	2.5	4.9	9.9	7.4	4.9	2.5
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°
29887.1	0°	29887.1	29887.1	29887.1	29887.1	29887.1	29887.1	29887.1	29887.1	29887.1
29963.8	2.5°	30186.5	30297.8	30493.2	30547.7	30715.9	30522.9	30416.6	30426.4	30196.4
29889.6	5°	30186.5	30441.3	30782.7	30946.0	31069.7	31059.8	31032.6	30963.3	30795.1
29741.2	7.5°	30107.3	30522.9	30993.0	31210.7	31359.1	31346.7	31408.6	31297.3	31091.9
29476.5	10°	29852.5	30213.7	30792.6	30970.7	31210.7	31215.6	31138.9	31161.2	30795.1
28509.2	12.5°	29051.0	29333.0	29840.1	30043.0	30334.9	30381.9	30297.8	30265.6	29919.3
26923.4	15°	27499.8	27663.1	28172.7	28375.6	28665.0	28625.5	28709.6	28674.9	28370.6
24781.0	17.5°	25231.3	25283.2	25817.6	25988.3	26260.4	26366.8	26240.6	26401.4	26139.2
21824.7	20°	21978.1	22257.6	22858.8	23121.0	23279.4	23469.9	23304.1	23484.7	23177.9
18237.6	22.5°	18677.9	18843.7	19387.9	19766.4	20060.8	20097.9	20036.1	20162.3	19749.1
15075.9	25°	15073.4	15348.1	15778.5	16273.3	16562.7	16740.9	16580.1	16661.7	16594.9
11691.6	27.5°	11889.5	12134.5	12458.5	12827.2	13262.6	13495.1	13366.5	13505.0	13178.4
8718.0	30°	8725.4	8849.1	9215.3	9606.1	10083.6	10365.6	10378.0	10519.0	10326.0
6108.0	32.5°	6152.6	6261.4	6486.6	6746.3	7201.5	7515.7	7466.2	7486.0	7367.3
3980.5	35°	4000.3	4146.2	4307.1	4430.7	4705.4	5051.7	5024.5	4999.7	4918.1
2617.4	37.5°	2674.3	2731.2	2820.2	2931.6	3109.7	3327.4	3399.1	3310.1	3275.4
1766.4	40°	1808.4	1907.4	1966.7	2050.9	2135.0	2318.0	2367.5	2350.2	2315.6
1236.9	42.5°	1284.0	1360.6	1434.9	1516.5	1561.0	1674.8	1771.3	1744.1	1729.3
940.1	45°	974.7	1044.0	1130.6	1192.4	1236.9	1303.7	1395.3	1405.2	1382.9
754.5	47.5°	781.8	843.6	912.9	989.6	1041.5	1083.6	1162.7	1192.4	1177.6
635.8	50°	663.0	710.0	776.8	853.5	910.4	947.5	1016.8	1048.9	1039.0
531.9	52.5°	564.0	620.9	682.8	747.1	816.4	853.5	917.8	964.8	957.4
440.4	55°	467.6	541.8	606.1	670.4	749.6	786.7	843.6	905.4	893.1
373.6	57.5°	408.2	470.0	536.8	598.7	682.8	732.3	784.2	848.5	846.1
306.8	60°	341.4	403.2	477.5	529.4	618.5	687.7	734.7	801.5	806.5
232.5	62.5°	272.1	348.8	405.7	477.5	559.1	640.7	685.3	752.1	776.8
178.1	65°	202.9	287.0	351.3	423.0	499.7	591.3	630.8	697.6	722.4
128.6	67.5°	150.9	215.2	296.9	358.7	445.3	524.5	571.5	633.3	650.6
76.7	70°	113.8	165.8	247.4	301.8	390.9	455.2	502.2	549.2	571.5
52.0	72.5°	66.8	123.7	195.4	259.8	336.4	390.9	425.5	462.6	477.5
24.7	75°	47.0	94.0	153.4	215.2	272.1	316.7	348.8	381.0	395.8
12.4	77.5°	24.7	69.3	121.2	173.2	212.8	249.9	282.0	306.8	316.7
9.9	80°	14.8	49.5	99.0	136.1	163.3	195.4	227.6	244.9	242.4
7.4	82.5°	9.9	39.6	71.7	99.0	118.7	143.5	165.8	178.1	178.1
4.9	85°	7.4	27.2	49.5	76.7	79.2	99.0	103.9	116.3	118.7
4.9	87.5°	4.9	17.3	27.2	44.5	42.1	52.0	54.4	61.8	66.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
29887.1
30010.8
30849.5
31138.9
30688.7
29840.1
28467.1
26074.9
23153.2
19692.2
16552.8
13262.6
10360.7
7434.1
4846.4
3268.0
2320.5
1716.9
1380.4
1170.2
1036.6
952.4
893.1
843.6
806.5
774.3
719.9
650.6
566.5
472.5
390.9
314.2
240.0
175.6
116.3
64.3
0.0

(END OF REPORT)