

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: P637546

Luminaire Tested: **IFLD-L-SA8B-722-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637546
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-722-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (128) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28160.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 320
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



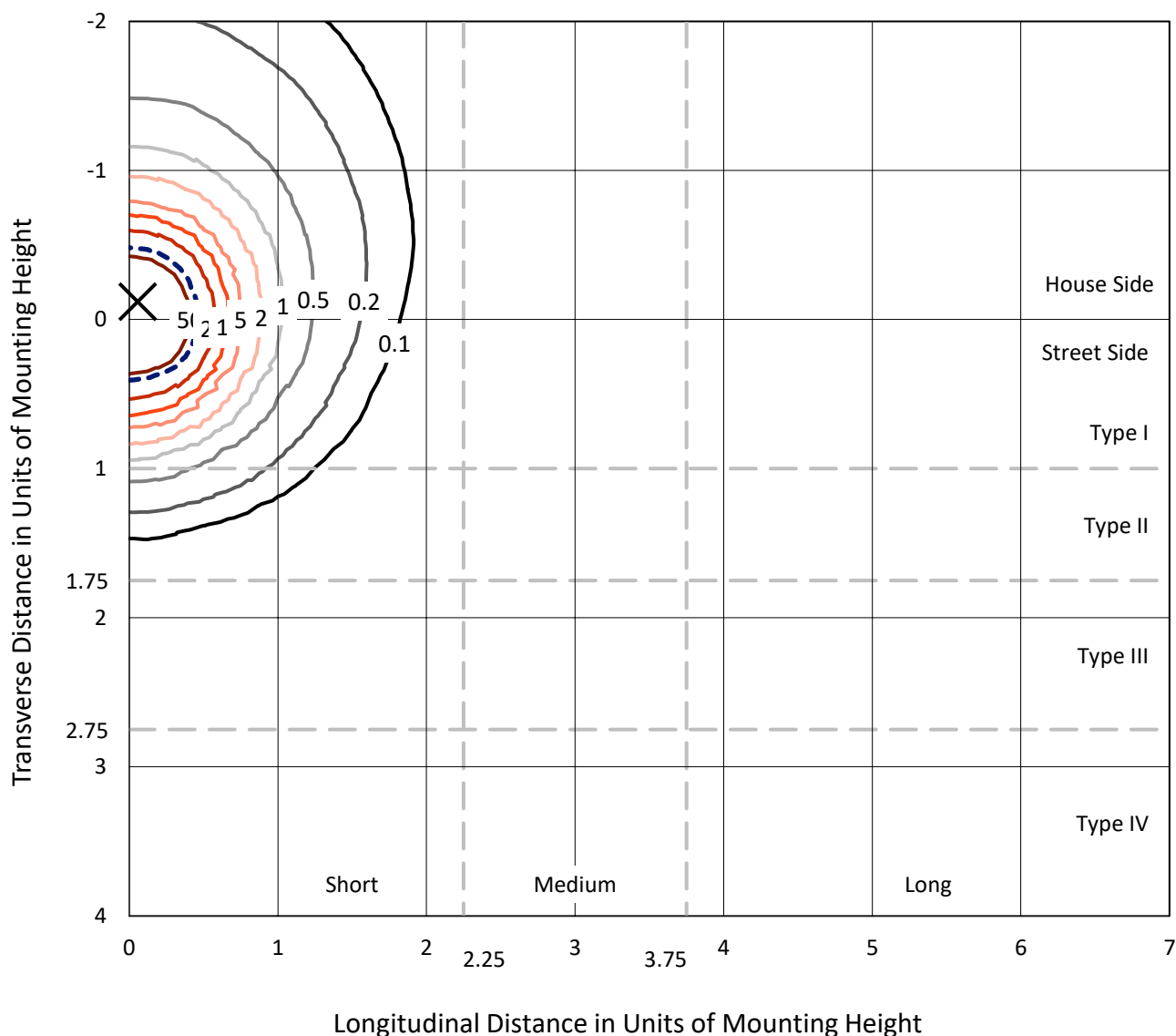
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



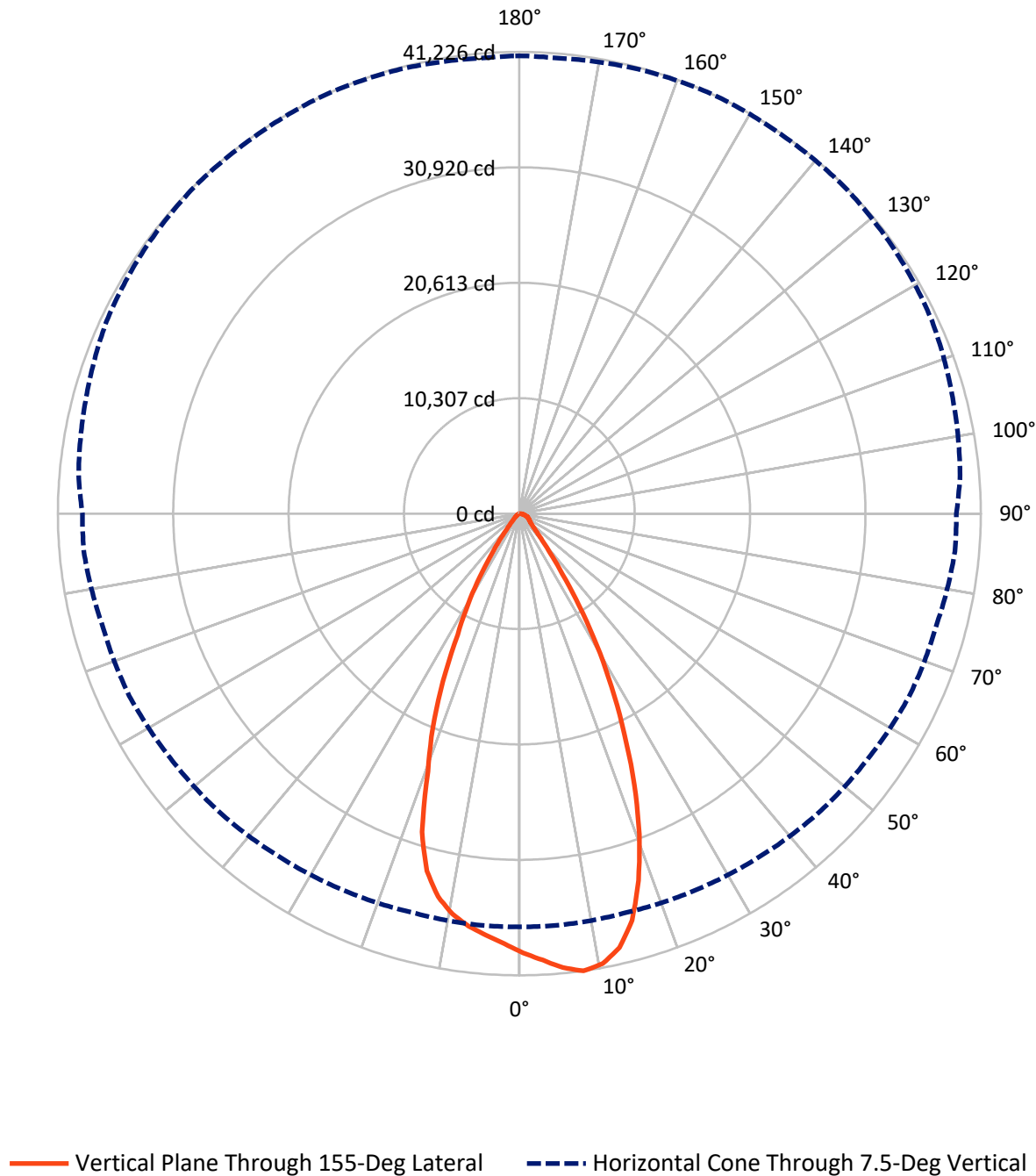
Based on 20 foot mounting height. Maximum calculated value = 99.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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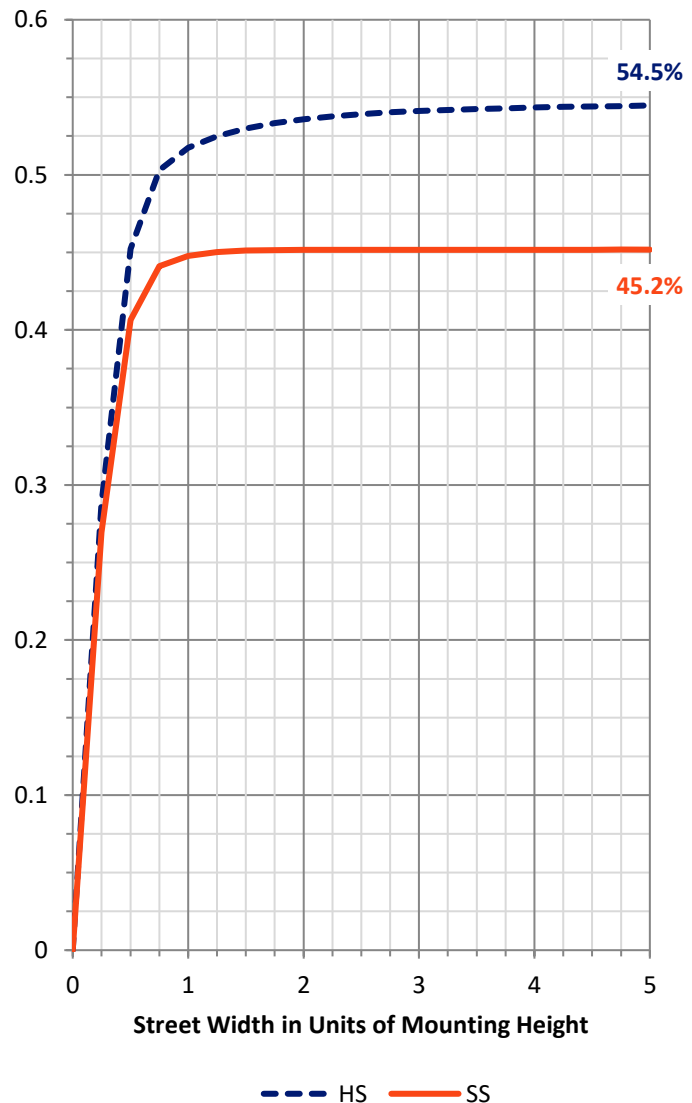
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15545.5	0.0	15545.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	12614.7	0.0	12614.7
	% Fixture	44.8	0.0	44.8
Total	Lumens	28160.2	0.0	28160.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3740.8	13.3
10°-20°	9699.8	34.4
20°-30°	8887.8	31.6
30°-40°	3590.7	12.8
40°-50°	1053.3	3.7
50°-60°	588.9	2.1
60°-70°	357.7	1.3
70°-80°	181.7	0.6
80°-90°	59.4	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°	28160.2	100.0
0°-180°	28160.2	100.0

Coefficient of Utilization



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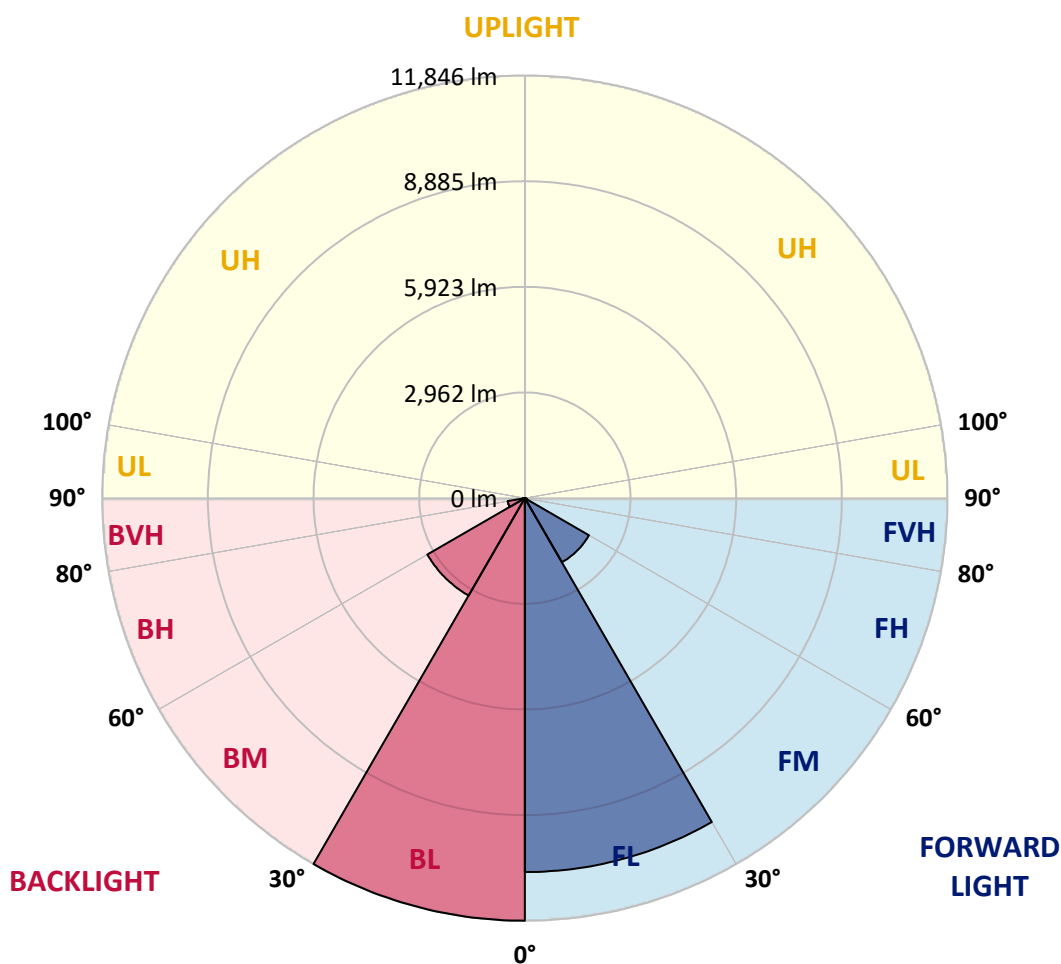
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	10481.9	37.2			
FM	(30°-60°)	2077.3	7.4			
FH	(60°-80°)	50.3	0.2			G0/660
FVH	(80°-90°)	5.1	0.0			G0/10
BL	(0°-30°)	11846.4	42.1	B5		
BM	(30°-60°)	3155.6	11.2	B3/5000		
BH	(60°-80°)	489.1	1.7	B1/500		G1/500
BVH	(80°-90°)	54.3	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°	39229.3	39229.3	39229.3	39229.3	39229.3	39229.3	39229.3	39229.3	39229.3	39229.3
2.5°	38378.6	38508.5	38248.7	38420.8	38553.9	38872.1	38898.1	39008.5	39047.5	39336.5
5°	37651.2	37751.9	37540.8	37771.3	37959.7	38242.2	38459.7	38765.0	38933.8	39274.8
7.5°	36894.6	36917.3	36875.1	37118.7	37401.2	37790.8	38060.3	38459.7	38563.7	39050.7
10°	35978.9	35813.3	35894.5	36251.7	36673.8	37271.3	37456.4	37855.8	38040.9	38537.7
12.5°	34517.7	34602.1	34501.4	34956.0	35306.7	35985.4	36180.2	36582.9	36936.8	37375.2
15°	32458.9	32410.2	32614.8	32968.7	33348.7	33887.7	34202.7	34641.0	34910.6	35365.2
17.5°	27831.7	27997.3	28841.6	29728.0	30507.4	31137.3	31514.0	31877.7	32072.5	32566.1
20°	24035.7	23827.9	23941.5	24441.6	26659.4	27623.9	28020.0	28107.7	28188.9	28578.5
22.5°	19791.6	19723.4	20103.4	20665.1	21191.2	23415.5	23954.5	23750.0	23918.8	24285.7
25°	14696.8	15041.0	15378.7	16456.8	17138.7	18229.7	19252.6	19343.5	19405.2	19635.8
27.5°	11962.7	11842.5	11836.0	12138.0	13144.6	14053.8	14924.1	15125.4	15089.7	15310.5
30°	9403.9	9364.9	9228.5	9300.0	9199.3	10007.8	10417.0	11245.0	11199.6	11206.1
32.5°	6783.4	6637.3	6582.1	6689.2	6585.3	6510.6	6867.8	7803.0	7786.8	7851.7
35°	4104.5	4085.0	4130.4	4224.6	4016.8	4010.3	4085.0	4965.0	5072.1	5176.0
37.5°	2266.5	2247.1	2282.8	2630.2	2562.0	2500.3	2519.8	2984.2	3292.7	3370.6
40°	1493.7	1490.5	1516.4	1578.1	1695.0	1672.3	1682.0	1889.9	2182.1	2250.3
42.5°	1000.1	1003.4	1019.6	1091.1	1107.3	1224.2	1204.7	1253.4	1526.2	1584.6
45°	798.8	795.6	805.3	772.8	792.3	912.5	925.4	928.7	1162.5	1198.2
47.5°	630.0	630.0	639.7	597.5	587.7	662.4	730.6	740.4	928.7	977.4
50°	441.6	441.6	490.3	470.8	493.6	516.3	591.0	600.7	759.8	811.8
52.5°	324.7	331.2	337.7	341.0	415.6	412.4	477.3	522.8	574.8	665.7
55°	246.8	253.3	237.0	253.3	308.5	344.2	357.2	422.1	457.9	558.5
57.5°	162.4	178.6	165.6	194.8	207.8	266.3	285.8	347.4	370.2	457.9
60°	22.7	26.0	42.2	136.4	146.1	175.3	220.8	276.0	298.7	373.4
62.5°	3.2	3.2	9.7	22.7	97.4	116.9	165.6	191.6	220.8	279.3
65°	0.0	0.0	3.2	6.5	19.5	68.2	84.4	103.9	152.6	201.3
67.5°	0.0	0.0	3.2	6.5	9.7	22.7	35.7	68.2	87.7	139.6
70°	0.0	0.0	3.2	6.5	9.7	13.0	19.5	26.0	52.0	81.2
72.5°	0.0	0.0	3.2	6.5	9.7	13.0	16.2	19.5	22.7	52.0
75°	0.0	0.0	3.2	6.5	9.7	16.2	19.5	19.5	19.5	22.7
77.5°	0.0	0.0	3.2	6.5	13.0	19.5	22.7	19.5	16.2	16.2
80°	0.0	0.0	3.2	9.7	16.2	22.7	26.0	19.5	13.0	9.7
82.5°	0.0	0.0	3.2	9.7	16.2	22.7	26.0	22.7	13.0	9.7
85°	0.0	0.0	3.2	9.7	13.0	16.2	26.0	22.7	13.0	6.5
87.5°	0.0	0.0	0.0	3.2	3.2	6.5	13.0	9.7	6.5	3.2
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°
39229.3	0°	39229.3	39229.3	39229.3	39229.3	39229.3	39229.3	39229.3	39229.3	39229.3
39330.0	2.5°	39622.2	39768.4	40024.9	40096.3	40317.1	40063.9	39924.2	39937.2	39635.2
39232.6	5°	39622.2	39956.7	40404.8	40619.1	40781.5	40768.5	40732.8	40641.9	40421.0
39037.7	7.5°	39518.3	40063.9	40680.8	40966.6	41161.4	41145.2	41226.4	41080.2	40810.7
38690.3	10°	39183.9	39658.0	40417.8	40651.6	40966.6	40973.1	40872.4	40901.6	40421.0
37420.6	12.5°	38131.8	38502.0	39167.6	39433.9	39817.1	39878.8	39768.4	39726.1	39271.5
35339.2	15°	36095.8	36310.1	36979.0	37245.3	37625.2	37573.3	37683.7	37638.2	37238.8
32527.1	17.5°	33118.1	33186.3	33887.7	34111.8	34468.9	34608.6	34443.0	34654.0	34309.8
28646.7	20°	28848.1	29215.0	30004.1	30348.3	30556.1	30806.1	30588.5	30825.6	30422.9
23938.3	22.5°	24516.3	24733.9	25448.2	25945.1	26331.5	26380.2	26299.0	26464.6	25922.3
19788.4	25°	19785.1	20145.6	20710.6	21360.0	21740.0	21973.7	21762.7	21869.8	21782.2
15346.2	27.5°	15606.0	15927.5	16352.9	16836.7	17408.2	17713.4	17544.6	17726.4	17297.8
11443.1	30°	11452.8	11615.2	12095.8	12608.8	13235.6	13605.7	13622.0	13807.1	13553.8
8017.3	32.5°	8075.8	8218.6	8514.1	8855.1	9452.6	9865.0	9800.0	9826.0	9670.1
5224.7	35°	5250.7	5442.3	5653.4	5815.7	6176.2	6630.8	6595.0	6562.6	6455.4
3435.5	37.5°	3510.2	3584.9	3701.8	3847.9	4081.7	4367.5	4461.6	4344.7	4299.3
2318.5	40°	2373.7	2503.6	2581.5	2691.9	2802.3	3042.6	3107.6	3084.8	3039.4
1623.6	42.5°	1685.3	1786.0	1883.4	1990.5	2049.0	2198.3	2325.0	2289.3	2269.8
1233.9	45°	1279.4	1370.3	1484.0	1565.1	1623.6	1711.3	1831.4	1844.4	1815.2
990.4	47.5°	1026.1	1107.3	1198.2	1298.9	1367.1	1422.3	1526.2	1565.1	1545.7
834.5	50°	870.2	931.9	1019.6	1120.3	1195.0	1243.7	1334.6	1376.8	1363.8
698.1	52.5°	740.4	815.0	896.2	980.7	1071.6	1120.3	1204.7	1266.4	1256.7
578.0	55°	613.7	711.1	795.6	880.0	983.9	1032.6	1107.3	1188.5	1172.2
490.3	57.5°	535.8	617.0	704.6	785.8	896.2	961.2	1029.4	1113.8	1110.5
402.7	60°	448.1	529.3	626.7	694.9	811.8	902.7	964.4	1052.1	1058.6
305.2	62.5°	357.2	457.9	532.5	626.7	733.9	841.0	899.5	987.1	1019.6
233.8	65°	266.3	376.7	461.1	555.3	655.9	776.1	828.0	915.7	948.2
168.9	67.5°	198.1	282.5	389.7	470.8	584.5	688.4	750.1	831.3	854.0
100.7	70°	149.4	217.6	324.7	396.2	513.1	597.5	659.2	720.9	750.1
68.2	72.5°	87.7	162.4	256.5	341.0	441.6	513.1	558.5	607.2	626.7
32.5	75°	61.7	123.4	201.3	282.5	357.2	415.6	457.9	500.1	519.6
16.2	77.5°	32.5	90.9	159.1	227.3	279.3	328.0	370.2	402.7	415.6
13.0	80°	19.5	64.9	129.9	178.6	214.3	256.5	298.7	321.5	318.2
9.7	82.5°	13.0	52.0	94.2	129.9	155.9	188.3	217.6	233.8	233.8
6.5	85°	9.7	35.7	64.9	100.7	103.9	129.9	136.4	152.6	155.9
6.5	87.5°	6.5	22.7	35.7	58.4	55.2	68.2	71.4	81.2	87.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
39229.3
39391.7
40492.5
40872.4
40281.4
39167.6
37365.4
34225.4
30390.5
25847.6
21727.0
17408.2
13599.2
9757.8
6361.2
4289.5
3045.9
2253.6
1811.9
1535.9
1360.6
1250.2
1172.2
1107.3
1058.6
1016.4
944.9
854.0
743.6
620.2
513.1
412.4
315.0
230.6
152.6
84.4
0.0

(END OF REPORT)