

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: P637640

Luminaire Tested: **IFLD-S-SA2E-740-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637640
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17001.5 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 156.2
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



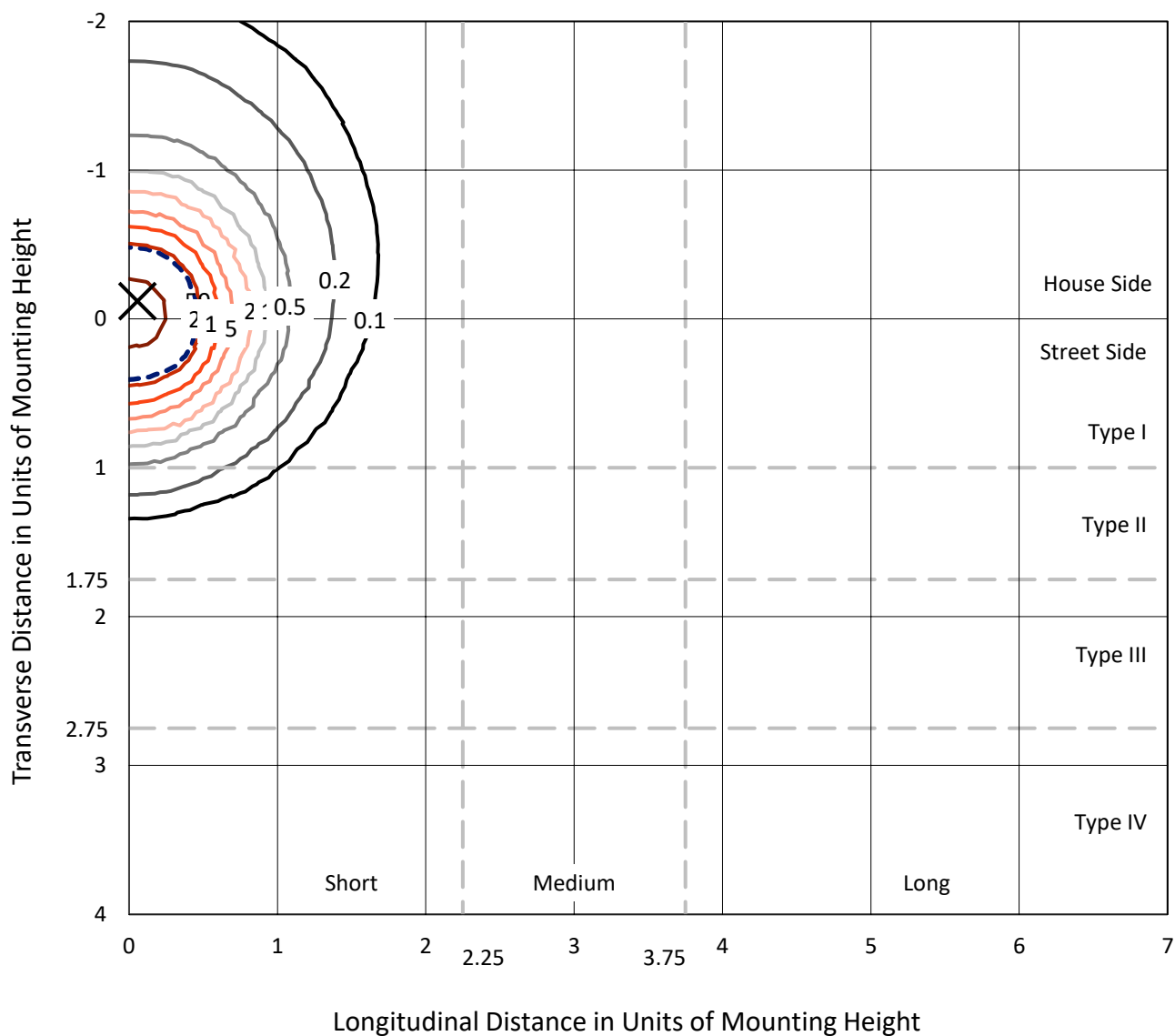
REPORT NUMBER: P637640

CATALOG NUMBER: IFLD-S-SA2E-740-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



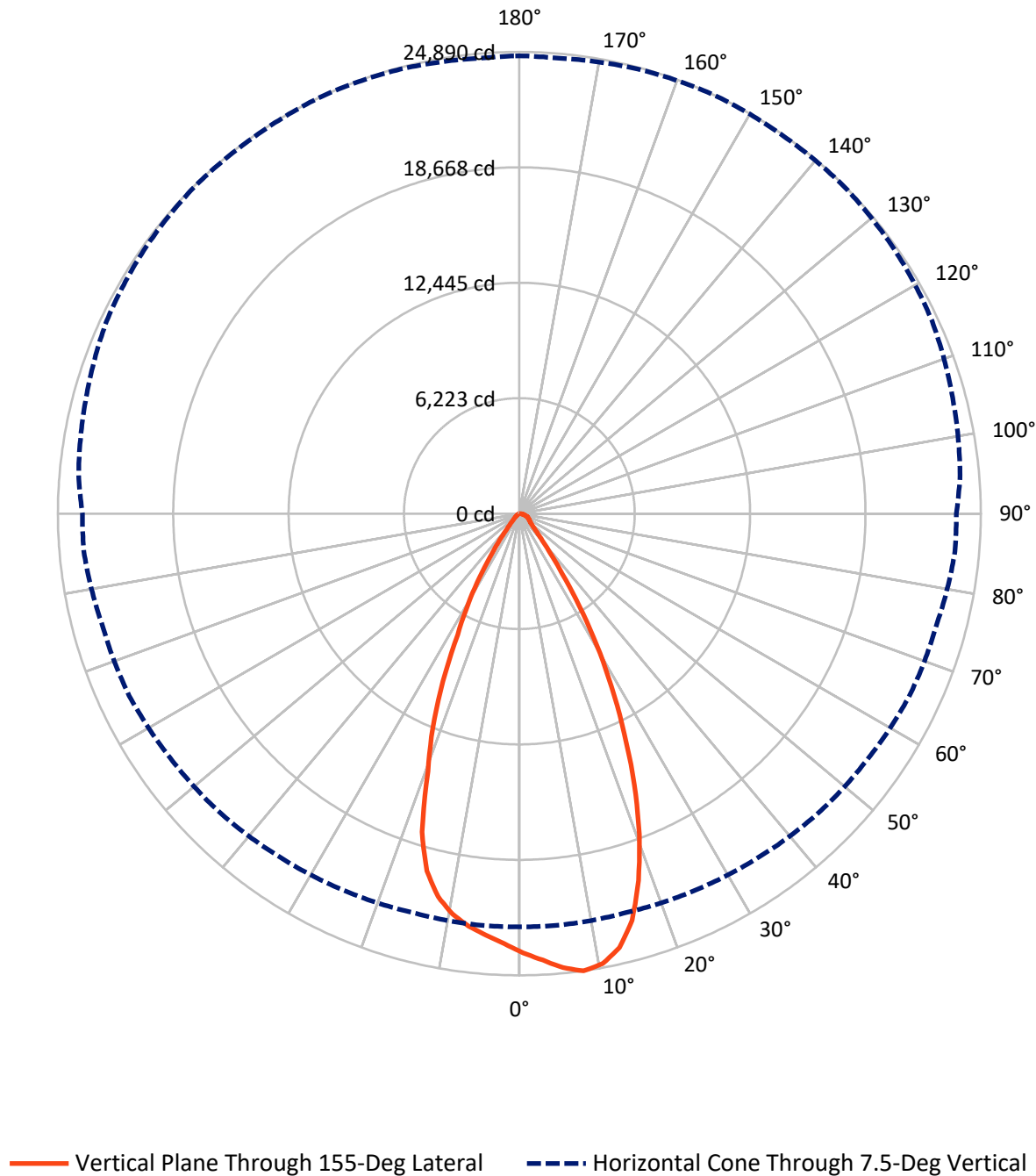
Based on 20 foot mounting height. Maximum calculated value = 60.2 fc

Type I - Short - N/A

REPORT NUMBER: P637640

CATALOG NUMBER: IFLD-S-SA2E-740-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637640

CATALOG NUMBER: IFLD-S-SA2E-740-U-55-VI

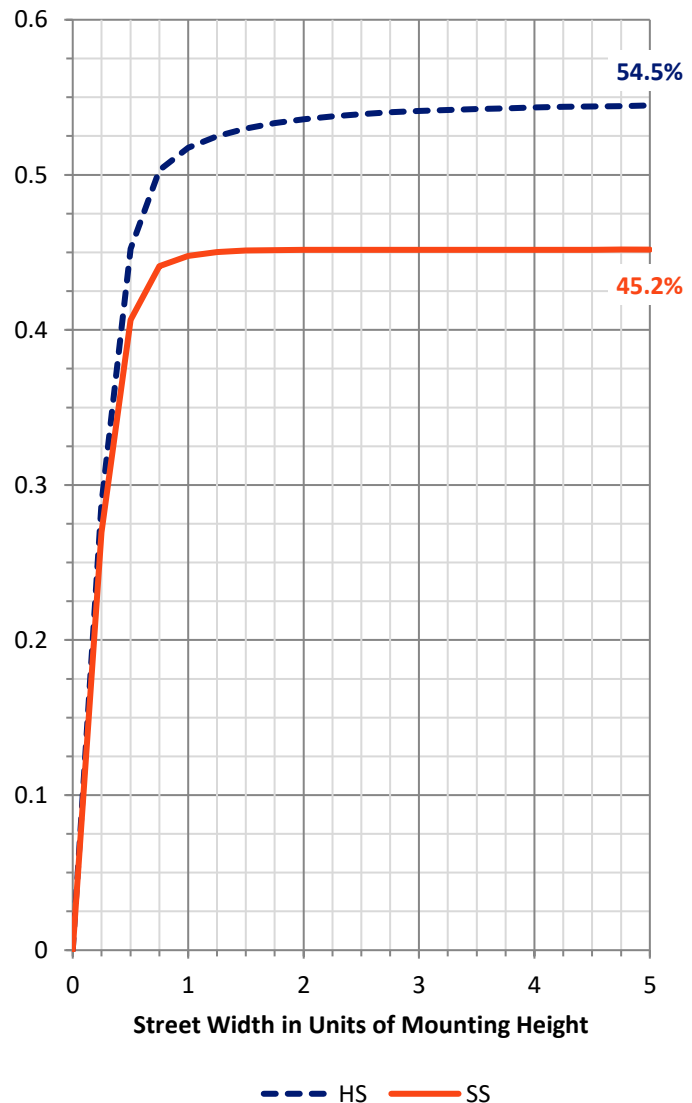
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9385.5	0.0	9385.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7616.0	0.0	7616.0
	% Fixture	44.8	0.0	44.8
Total	Lumens	17001.5	0.0	17001.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2258.5	13.3
10°-20°	5856.2	34.4
20°-30°	5365.9	31.6
30°-40°	2167.8	12.8
40°-50°	635.9	3.7
50°-60°	355.6	2.1
60°-70°	216.0	1.3
70°-80°	109.7	0.6
80°-90°	35.9	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°	17001.5	100.0
0°-180°	17001.5	100.0

Coefficient of Utilization



REPORT NUMBER: P637640

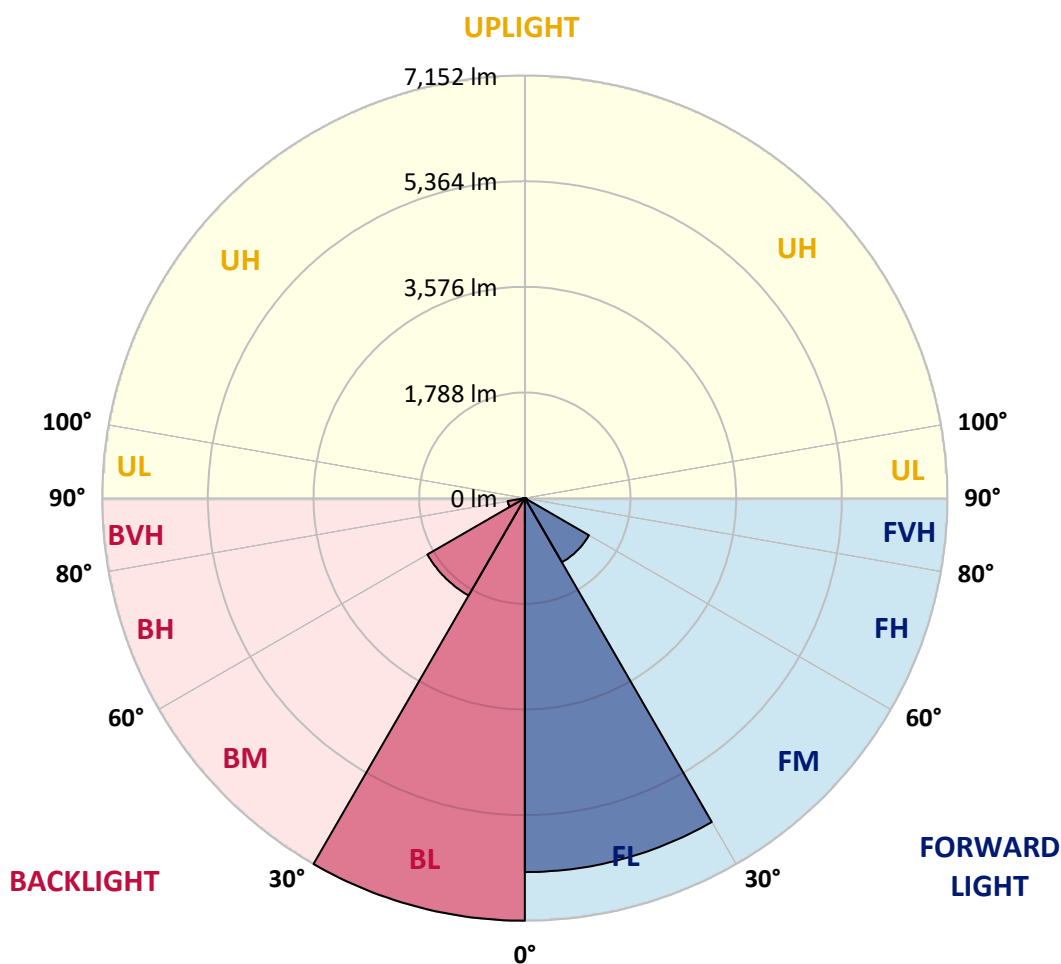
CATALOG NUMBER: IFLD-S-SA2E-740-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6328.4	37.2			
FM	(30°-60°)	1254.2	7.4			
FH	(60°-80°)	30.4	0.2			G0/660
FVH	(80°-90°)	3.1	0.0			G0/10
BL	(0°-30°)	7152.2	42.1	B5		
BM	(30°-60°)	1905.2	11.2	B2/2500		
BH	(60°-80°)	295.3	1.7	B1/500		G1/500
BVH	(80°-90°)	32.8	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-G1

Type I Short



REPORT NUMBER: P637640

CATALOG NUMBER: IFLD-S-SA2E-740-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23684.4	23684.4	23684.4	23684.4	23684.4	23684.4	23684.4	23684.4	23684.4	23684.4
2.5°	23170.7	23249.2	23092.3	23196.2	23276.6	23468.7	23484.4	23551.1	23574.6	23749.1
5°	22731.6	22792.4	22664.9	22804.1	22917.8	23088.4	23219.8	23404.0	23506.0	23711.8
7.5°	22274.8	22288.5	22263.1	22410.1	22580.6	22815.9	22978.6	23219.8	23282.5	23576.6
10°	21722.0	21622.0	21671.0	21886.6	22141.5	22502.2	22614.0	22855.1	22966.9	23266.8
12.5°	20839.8	20890.7	20829.9	21104.4	21316.1	21725.9	21843.5	22086.6	22300.3	22565.0
15°	19596.8	19567.4	19690.9	19904.6	20134.0	20459.4	20649.6	20914.2	21077.0	21351.4
17.5°	16803.2	16903.1	17412.9	17948.1	18418.6	18798.9	19026.3	19245.9	19363.5	19661.5
20°	14511.4	14385.9	14454.5	14756.4	16095.4	16677.7	16916.9	16969.8	17018.8	17254.1
22.5°	11949.0	11907.9	12137.2	12476.4	12794.0	14136.9	14462.4	14338.8	14440.8	14662.3
25°	8873.1	9080.9	9284.8	9935.6	10347.3	11006.1	11623.6	11678.5	11715.7	11854.9
27.5°	7222.4	7149.8	7145.9	7328.2	7936.0	8484.9	9010.3	9131.8	9110.3	9243.6
30°	5677.5	5654.0	5571.6	5614.8	5554.0	6042.2	6289.2	6789.1	6761.6	6765.6
32.5°	4095.4	4007.2	3973.9	4038.6	3975.8	3930.7	4146.4	4711.0	4701.2	4740.4
35°	2478.0	2466.3	2493.7	2550.6	2425.1	2421.2	2466.3	2997.6	3062.2	3125.0
37.5°	1368.4	1356.6	1378.2	1588.0	1546.8	1509.6	1521.3	1801.7	1987.9	2035.0
40°	901.8	899.9	915.5	952.8	1023.4	1009.6	1015.5	1141.0	1317.4	1358.6
42.5°	603.8	605.8	615.6	658.7	668.5	739.1	727.3	756.7	921.4	956.7
45°	482.3	480.3	486.2	466.6	478.4	550.9	558.7	560.7	701.8	723.4
47.5°	380.3	380.3	386.2	360.7	354.8	399.9	441.1	447.0	560.7	590.1
50°	266.6	266.6	296.0	284.3	298.0	311.7	356.8	362.7	458.7	490.1
52.5°	196.0	200.0	203.9	205.8	250.9	249.0	288.2	315.6	347.0	401.9
55°	149.0	152.9	143.1	152.9	186.2	207.8	215.7	254.9	276.4	337.2
57.5°	98.0	107.8	100.0	117.6	125.5	160.8	172.5	209.8	223.5	276.4
60°	13.7	15.7	25.5	82.3	88.2	105.9	133.3	166.6	180.4	225.5
62.5°	2.0	2.0	5.9	13.7	58.8	70.6	100.0	115.7	133.3	168.6
65°	0.0	0.0	2.0	3.9	11.8	41.2	51.0	62.7	92.1	121.5
67.5°	0.0	0.0	2.0	3.9	5.9	13.7	21.6	41.2	52.9	84.3
70°	0.0	0.0	2.0	3.9	5.9	7.8	11.8	15.7	31.4	49.0
72.5°	0.0	0.0	2.0	3.9	5.9	7.8	9.8	11.8	13.7	31.4
75°	0.0	0.0	2.0	3.9	5.9	9.8	11.8	11.8	11.8	13.7
77.5°	0.0	0.0	2.0	3.9	7.8	11.8	13.7	11.8	9.8	9.8
80°	0.0	0.0	2.0	5.9	9.8	13.7	15.7	11.8	7.8	5.9
82.5°	0.0	0.0	2.0	5.9	9.8	13.7	15.7	13.7	7.8	5.9
85°	0.0	0.0	2.0	5.9	7.8	9.8	15.7	13.7	7.8	3.9
87.5°	0.0	0.0	0.0	2.0	2.0	3.9	7.8	5.9	3.9	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637640

CATALOG NUMBER: IFLD-S-SA2E-740-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
23684.4	0°	23684.4	23684.4	23684.4	23684.4	23684.4	23684.4	23684.4	23684.4	23684.4
23745.2	2.5°	23921.6	24009.8	24164.7	24207.8	24341.1	24188.2	24103.9	24111.8	23929.4
23686.3	5°	23921.6	24123.5	24394.1	24523.5	24621.5	24613.6	24592.1	24537.2	24403.9
23568.7	7.5°	23858.9	24188.2	24560.7	24733.2	24850.9	24841.1	24890.1	24801.9	24639.1
23359.0	10°	23656.9	23943.2	24401.9	24543.1	24733.2	24737.2	24676.4	24694.0	24403.9
22592.4	12.5°	23021.8	23245.2	23647.1	23807.9	24039.2	24076.5	24009.8	23984.3	23709.9
21335.7	15°	21792.5	21921.9	22325.8	22486.5	22715.9	22684.6	22751.2	22723.8	22482.6
19638.0	17.5°	19994.8	20036.0	20459.4	20594.7	20810.3	20894.6	20794.7	20922.1	20714.3
17295.2	20°	17416.8	17638.3	18114.7	18322.5	18448.0	18598.9	18467.6	18610.7	18367.6
14452.6	22.5°	14801.5	14932.9	15364.2	15664.1	15897.4	15926.8	15877.8	15977.8	15650.4
11947.1	25°	11945.1	12162.7	12503.9	12895.9	13125.3	13266.5	13139.0	13203.7	13150.8
9265.2	27.5°	9422.0	9616.1	9872.9	10165.0	10510.1	10694.3	10592.4	10702.2	10443.4
6908.7	30°	6914.6	7012.6	7302.7	7612.5	7990.9	8214.4	8224.2	8335.9	8183.0
4840.4	32.5°	4875.7	4961.9	5140.3	5346.2	5706.9	5955.9	5916.7	5932.4	5838.3
3154.4	35°	3170.1	3285.7	3413.2	3511.2	3728.8	4003.3	3981.7	3962.1	3897.4
2074.2	37.5°	2119.3	2164.4	2234.9	2323.2	2464.3	2636.8	2693.7	2623.1	2595.7
1399.8	40°	1433.1	1511.5	1558.6	1625.2	1691.9	1837.0	1876.2	1862.4	1835.0
980.2	42.5°	1017.5	1078.3	1137.1	1201.8	1237.1	1327.2	1403.7	1382.1	1370.4
745.0	45°	772.4	827.3	895.9	944.9	980.2	1033.2	1105.7	1113.5	1095.9
597.9	47.5°	619.5	668.5	723.4	784.2	825.4	858.7	921.4	944.9	933.2
503.8	50°	525.4	562.7	615.6	676.4	721.5	750.9	805.8	831.2	823.4
421.5	52.5°	447.0	492.1	541.1	592.1	647.0	676.4	727.3	764.6	758.7
349.0	55°	370.5	429.3	480.3	531.3	594.0	623.4	668.5	717.5	707.7
296.0	57.5°	323.5	372.5	425.4	474.4	541.1	580.3	621.5	672.4	670.5
243.1	60°	270.5	319.6	378.4	419.5	490.1	545.0	582.3	635.2	639.1
184.3	62.5°	215.7	276.4	321.5	378.4	443.1	507.8	543.0	596.0	615.6
141.2	65°	160.8	227.4	278.4	335.2	396.0	468.6	499.9	552.9	572.5
101.9	67.5°	119.6	170.6	235.3	284.3	352.9	415.6	452.9	501.9	515.6
60.8	70°	90.2	131.4	196.0	239.2	309.8	360.7	398.0	435.2	452.9
41.2	72.5°	52.9	98.0	154.9	205.8	266.6	309.8	337.2	366.6	378.4
19.6	75°	37.2	74.5	121.5	170.6	215.7	250.9	276.4	301.9	313.7
9.8	77.5°	19.6	54.9	96.1	137.2	168.6	198.0	223.5	243.1	250.9
7.8	80°	11.8	39.2	78.4	107.8	129.4	154.9	180.4	194.1	192.1
5.9	82.5°	7.8	31.4	56.9	78.4	94.1	113.7	131.4	141.2	141.2
3.9	85°	5.9	21.6	39.2	60.8	62.7	78.4	82.3	92.1	94.1
3.9	87.5°	3.9	13.7	21.6	35.3	33.3	41.2	43.1	49.0	52.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
23684.4
23782.4
24447.0
24676.4
24319.6
23647.1
22559.1
20663.3
18348.0
15605.3
13117.5
10510.1
8210.4
5891.2
3840.6
2589.8
1838.9
1360.6
1093.9
927.3
821.4
754.8
707.7
668.5
639.1
613.6
570.5
515.6
448.9
374.4
309.8
249.0
190.2
139.2
92.1
51.0
0.0

(END OF REPORT)