

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: P637612

Luminaire Tested: **IFLD-S-SA3A-735-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637612
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5
distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12746.9 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 94.8
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



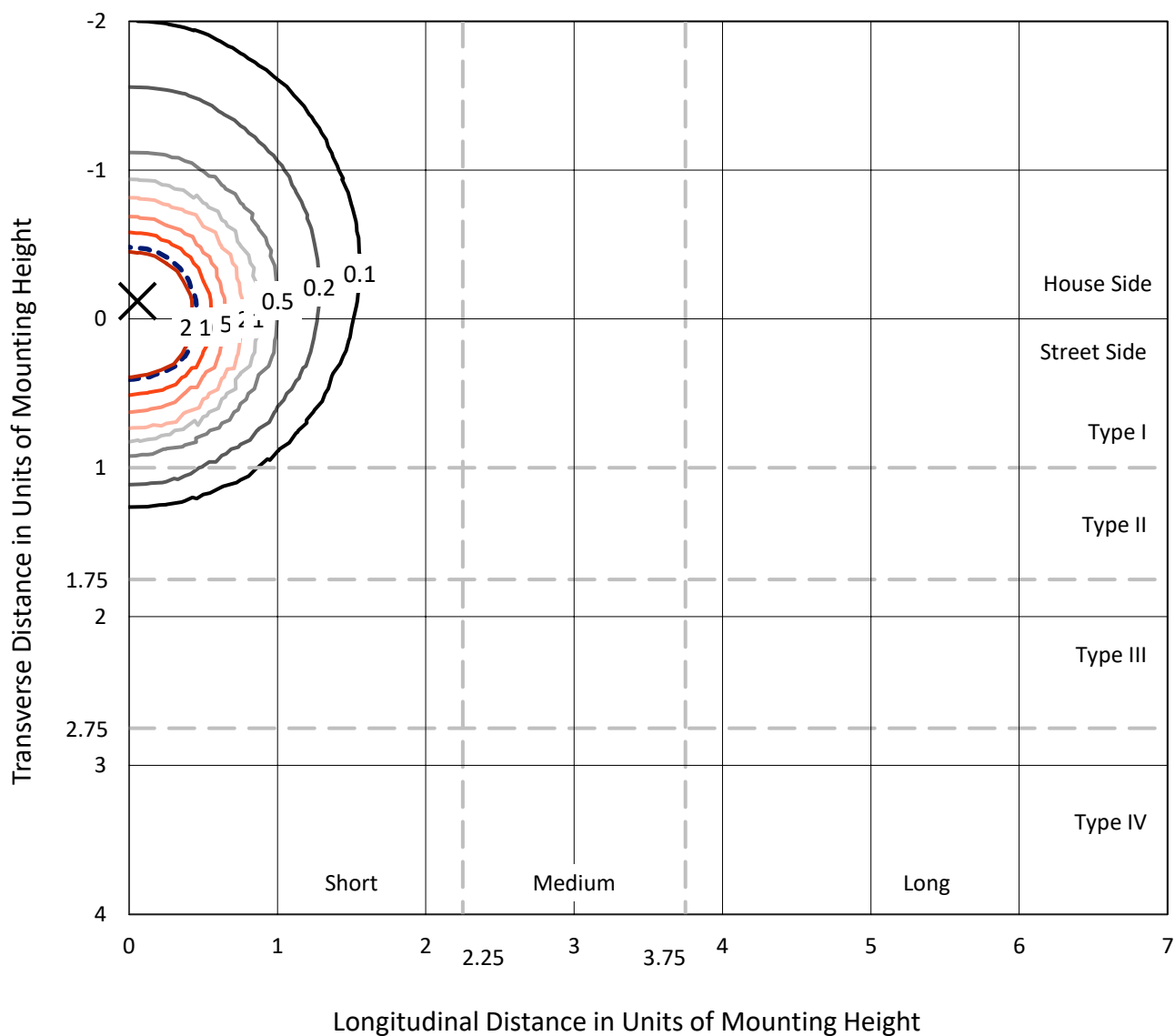
REPORT NUMBER: P637612

CATALOG NUMBER: IFLD-S-SA3A-735-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



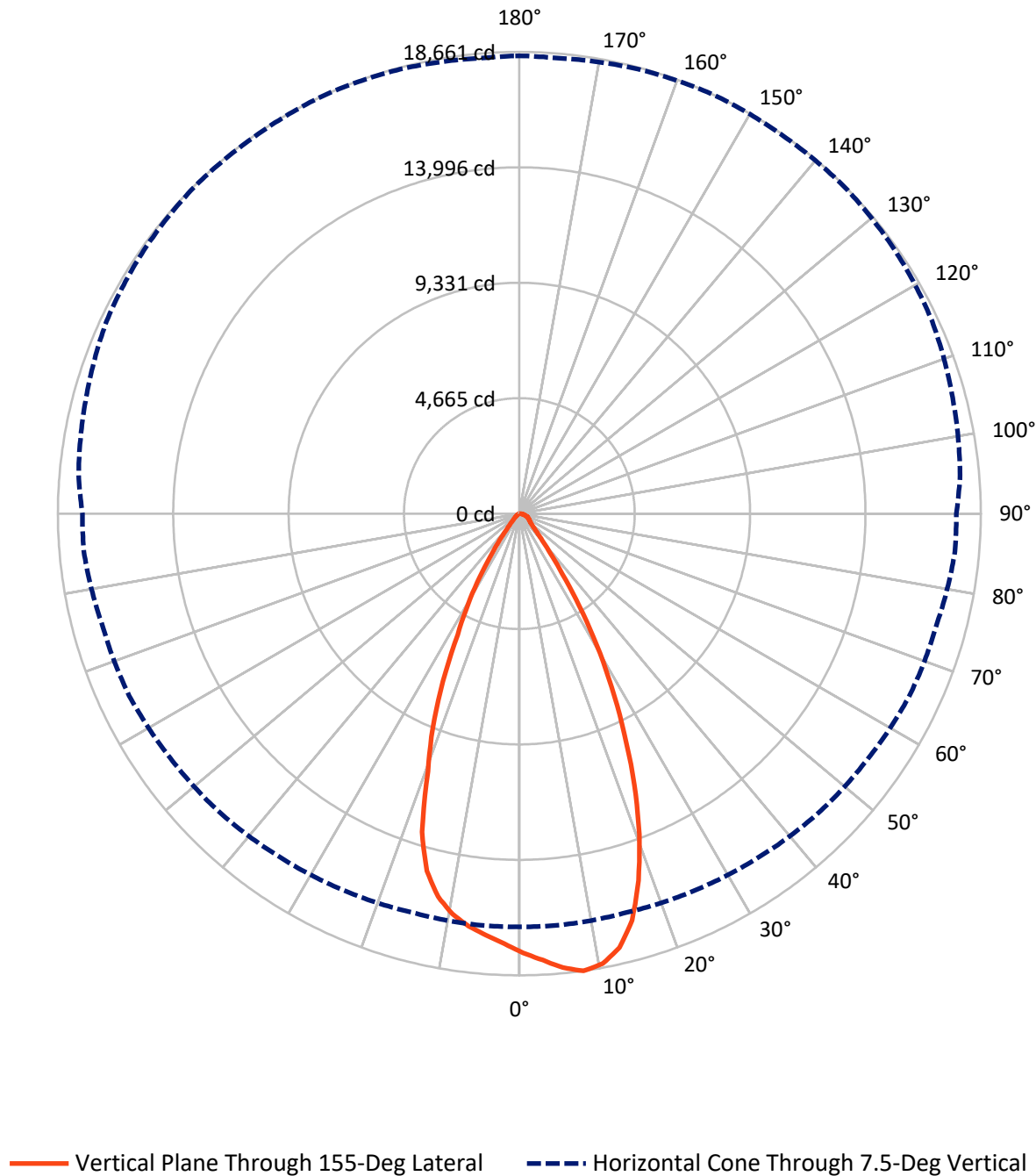
Based on 20 foot mounting height. Maximum calculated value = 45.1 fc

Type I - Short - N/A

REPORT NUMBER: P637612

CATALOG NUMBER: IFLD-S-SA3A-735-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637612

CATALOG NUMBER: IFLD-S-SA3A-735-U-55-VI

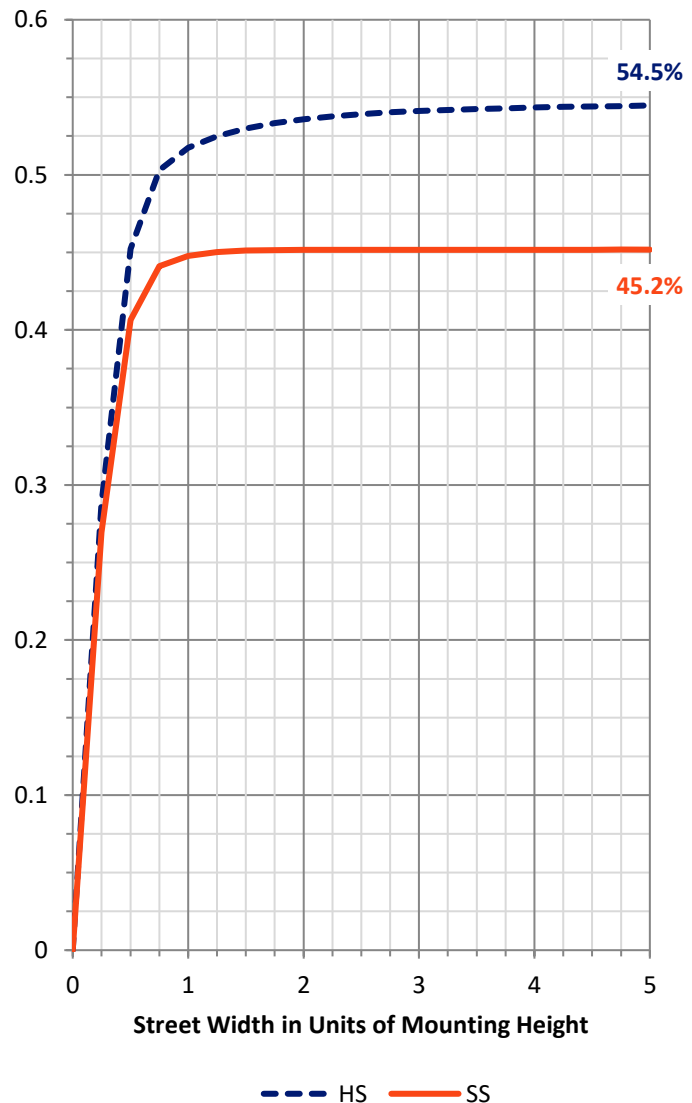
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7036.8	0.0	7036.8
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	5710.1	0.0	5710.1
	% Fixture	44.8	0.0	44.8
Total	Lumens	12746.9	0.0	12746.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1693.3	13.3
10°-20°	4390.7	34.4
20°-30°	4023.1	31.6
30°-40°	1625.3	12.8
40°-50°	476.8	3.7
50°-60°	266.6	2.1
60°-70°	161.9	1.3
70°-80°	82.3	0.6
80°-90°	26.9	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°	12746.9	100.0
0°-180°	12746.9	100.0

Coefficient of Utilization



REPORT NUMBER: P637612

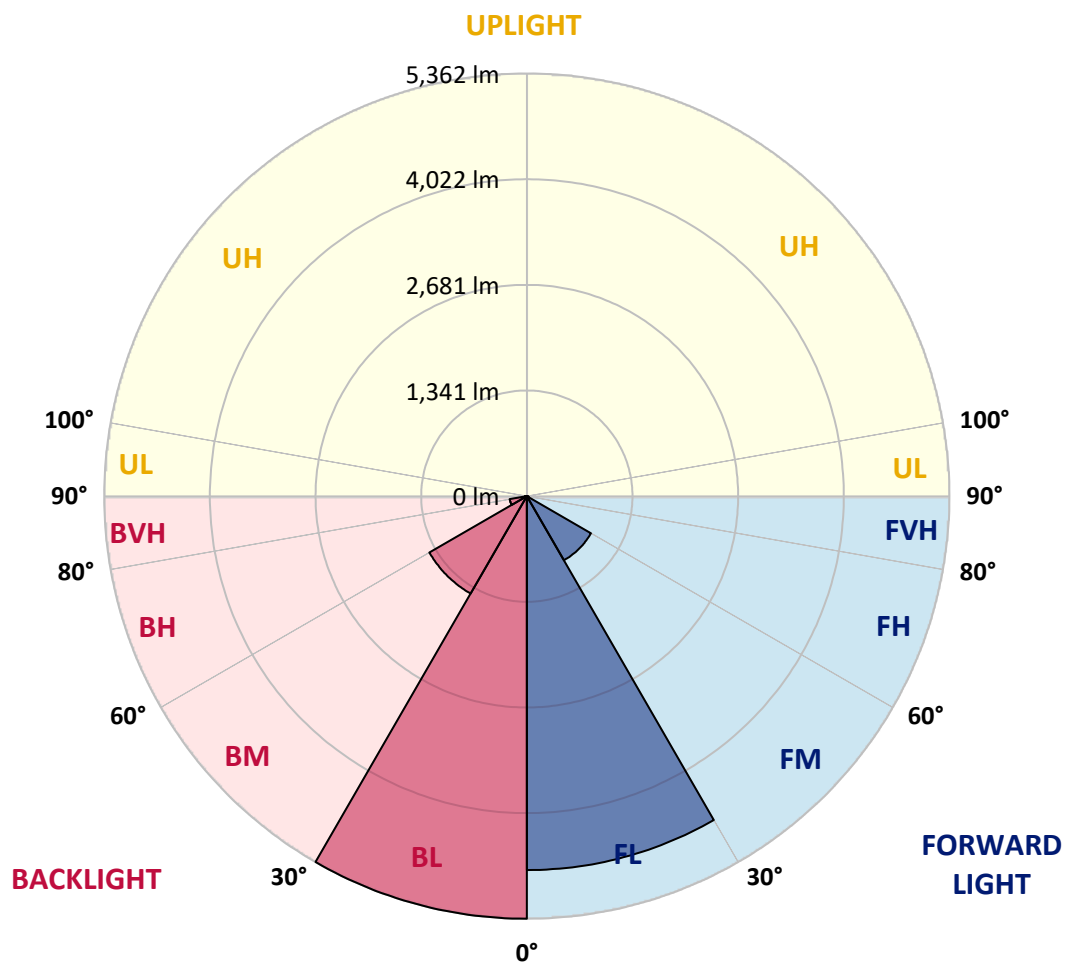
CATALOG NUMBER: IFLD-S-SA3A-735-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4744.7	37.2			
FM	(30°-60°)	940.3	7.4			
FH	(60°-80°)	22.8	0.2			G0/660
FVH	(80°-90°)	2.3	0.0			G0/10
BL	(0°-30°)	5362.4	42.1	B5		
BM	(30°-60°)	1428.4	11.2	B2/2500		
BH	(60°-80°)	221.4	1.7	B1/500		G1/500
BVH	(80°-90°)	24.6	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: P637612

CATALOG NUMBER: IFLD-S-SA3A-735-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	17757.4	17757.4	17757.4	17757.4	17757.4	17757.4	17757.4	17757.4	17757.4	17757.4
2.5°	17372.3	17431.1	17313.5	17391.4	17451.7	17595.7	17607.5	17657.5	17675.1	17805.9
5°	17043.1	17088.6	16993.1	17097.4	17182.7	17310.6	17409.1	17547.2	17623.7	17778.0
7.5°	16700.6	16710.9	16691.8	16802.0	16929.9	17106.3	17228.3	17409.1	17456.1	17676.6
10°	16286.1	16211.1	16247.9	16409.5	16600.6	16871.1	16954.9	17135.7	17219.4	17444.3
12.5°	15624.6	15662.9	15617.3	15823.1	15981.8	16289.0	16377.2	16559.5	16719.7	16918.1
15°	14692.7	14670.7	14763.3	14923.5	15095.5	15339.5	15482.1	15680.5	15802.5	16008.3
17.5°	12598.2	12673.2	13055.3	13456.6	13809.4	14094.5	14265.0	14429.6	14517.8	14741.3
20°	10879.9	10785.9	10837.3	11063.7	12067.6	12504.1	12683.4	12723.1	12759.9	12936.3
22.5°	8958.8	8927.9	9099.9	9354.2	9592.3	10599.2	10843.2	10750.6	10827.0	10993.1
25°	6652.6	6808.4	6961.3	7449.3	7757.9	8251.8	8714.8	8756.0	8783.9	8888.3
27.5°	5415.0	5360.6	5357.7	5494.3	5950.0	6361.6	6755.5	6846.6	6830.5	6930.4
30°	4256.7	4239.1	4177.4	4209.7	4164.1	4530.1	4715.3	5090.1	5069.6	5072.5
32.5°	3070.5	3004.4	2979.4	3027.9	2980.9	2947.1	3108.8	3532.1	3524.7	3554.1
35°	1857.9	1849.1	1869.7	1912.3	1818.2	1815.3	1849.1	2247.4	2295.9	2343.0
37.5°	1026.0	1017.1	1033.3	1190.6	1159.7	1131.8	1140.6	1350.8	1490.4	1525.7
40°	676.1	674.7	686.4	714.4	767.3	757.0	761.4	855.5	987.7	1018.6
42.5°	452.7	454.2	461.5	493.9	501.2	554.1	545.3	567.4	690.8	717.3
45°	361.6	360.1	364.5	349.8	358.6	413.0	418.9	420.4	526.2	542.4
47.5°	285.2	285.2	289.6	270.5	266.0	299.9	330.7	335.1	420.4	442.4
50°	199.9	199.9	221.9	213.1	223.4	233.7	267.5	271.9	343.9	367.5
52.5°	147.0	149.9	152.9	154.3	188.1	186.7	216.1	236.6	260.2	301.3
55°	111.7	114.6	107.3	114.6	139.6	155.8	161.7	191.1	207.3	252.8
57.5°	73.5	80.8	75.0	88.2	94.1	120.5	129.3	157.3	167.6	207.3
60°	10.3	11.8	19.1	61.7	66.1	79.4	100.0	124.9	135.2	169.0
62.5°	1.5	1.5	4.4	10.3	44.1	52.9	75.0	86.7	100.0	126.4
65°	0.0	0.0	1.5	2.9	8.8	30.9	38.2	47.0	69.1	91.1
67.5°	0.0	0.0	1.5	2.9	4.4	10.3	16.2	30.9	39.7	63.2
70°	0.0	0.0	1.5	2.9	4.4	5.9	8.8	11.8	23.5	36.7
72.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	8.8	10.3	23.5
75°	0.0	0.0	1.5	2.9	4.4	7.3	8.8	8.8	8.8	10.3
77.5°	0.0	0.0	1.5	2.9	5.9	8.8	10.3	8.8	7.3	7.3
80°	0.0	0.0	1.5	4.4	7.3	10.3	11.8	8.8	5.9	4.4
82.5°	0.0	0.0	1.5	4.4	7.3	10.3	11.8	10.3	5.9	4.4
85°	0.0	0.0	1.5	4.4	5.9	7.3	11.8	10.3	5.9	2.9
87.5°	0.0	0.0	0.0	1.5	1.5	2.9	5.9	4.4	2.9	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637612

CATALOG NUMBER: IFLD-S-SA3A-735-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
17757.4	0°	17757.4	17757.4	17757.4	17757.4	17757.4	17757.4	17757.4	17757.4	17757.4
17803.0	2.5°	17935.3	18001.4	18117.5	18149.9	18249.8	18135.2	18072.0	18077.8	17941.1
17758.9	5°	17935.3	18086.7	18289.5	18386.5	18460.0	18454.1	18438.0	18396.8	18296.9
17670.7	7.5°	17888.2	18135.2	18414.4	18543.8	18632.0	18624.6	18661.4	18595.2	18473.2
17513.4	10°	17736.8	17951.4	18295.4	18401.2	18543.8	18546.7	18501.2	18514.4	18296.9
16938.7	12.5°	17260.6	17428.2	17729.5	17850.0	18023.5	18051.4	18001.4	17982.3	17776.5
15996.5	15°	16339.0	16436.0	16738.8	16859.3	17031.3	17007.8	17057.8	17037.2	16856.4
14723.6	17.5°	14991.1	15022.0	15339.5	15440.9	15602.6	15665.8	15590.8	15686.4	15530.6
12967.1	20°	13058.3	13224.4	13581.5	13737.3	13831.4	13944.6	13846.1	13953.4	13771.1
10835.8	22.5°	11097.5	11195.9	11519.3	11744.2	11919.1	11941.2	11904.4	11979.4	11733.9
8957.3	25°	8955.9	9119.0	9374.8	9668.8	9840.7	9946.6	9851.0	9899.5	9859.8
6946.6	27.5°	7064.2	7209.7	7402.2	7621.2	7879.9	8018.1	7941.7	8024.0	7830.0
5179.8	30°	5184.2	5257.7	5475.2	5707.5	5991.2	6158.7	6166.1	6249.9	6135.2
3629.1	32.5°	3655.5	3720.2	3854.0	4008.3	4278.8	4465.4	4436.0	4447.8	4377.3
2365.0	35°	2376.8	2463.5	2559.0	2632.5	2795.7	3001.5	2985.3	2970.6	2922.1
1555.1	37.5°	1588.9	1622.7	1675.6	1741.8	1847.6	1977.0	2019.6	1966.7	1946.1
1049.5	40°	1074.5	1133.3	1168.5	1218.5	1268.5	1377.3	1406.7	1396.4	1375.8
734.9	42.5°	762.9	808.4	852.5	901.0	927.5	995.1	1052.4	1036.3	1027.4
558.5	45°	579.1	620.3	671.7	708.5	734.9	774.6	829.0	834.9	821.7
448.3	47.5°	464.5	501.2	542.4	587.9	618.8	643.8	690.8	708.5	699.7
377.8	50°	393.9	421.9	461.5	507.1	540.9	563.0	604.1	623.2	617.3
316.0	52.5°	335.1	368.9	405.7	443.9	485.1	507.1	545.3	573.2	568.8
261.6	55°	277.8	321.9	360.1	398.3	445.4	467.4	501.2	538.0	530.6
221.9	57.5°	242.5	279.3	319.0	355.7	405.7	435.1	465.9	504.2	502.7
182.3	60°	202.8	239.6	283.7	314.6	367.5	408.6	436.5	476.2	479.2
138.2	62.5°	161.7	207.3	241.1	283.7	332.2	380.7	407.2	446.8	461.5
105.8	65°	120.5	170.5	208.7	251.3	296.9	351.3	374.8	414.5	429.2
76.4	67.5°	89.7	127.9	176.4	213.1	264.6	311.6	339.5	376.3	386.6
45.6	70°	67.6	98.5	147.0	179.3	232.2	270.5	298.4	326.3	339.5
30.9	72.5°	39.7	73.5	116.1	154.3	199.9	232.2	252.8	274.9	283.7
14.7	75°	27.9	55.9	91.1	127.9	161.7	188.1	207.3	226.4	235.2
7.3	77.5°	14.7	41.2	72.0	102.9	126.4	148.5	167.6	182.3	188.1
5.9	80°	8.8	29.4	58.8	80.8	97.0	116.1	135.2	145.5	144.0
4.4	82.5°	5.9	23.5	42.6	58.8	70.6	85.3	98.5	105.8	105.8
2.9	85°	4.4	16.2	29.4	45.6	47.0	58.8	61.7	69.1	70.6
2.9	87.5°	2.9	10.3	16.2	26.5	25.0	30.9	32.3	36.7	39.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
17757.4
17830.9
18329.2
18501.2
18233.6
17729.5
16913.7
15492.4
13756.4
11700.1
9834.9
7879.9
6155.8
4416.9
2879.5
1941.7
1378.7
1020.1
820.2
695.2
615.9
565.9
530.6
501.2
479.2
460.1
427.7
386.6
336.6
280.7
232.2
186.7
142.6
104.4
69.1
38.2
0.0

(END OF REPORT)