

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: P637737

Luminaire Tested: **IFLD-S-SA6E-827-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637737
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6E-827-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36536.9 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 464.2
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



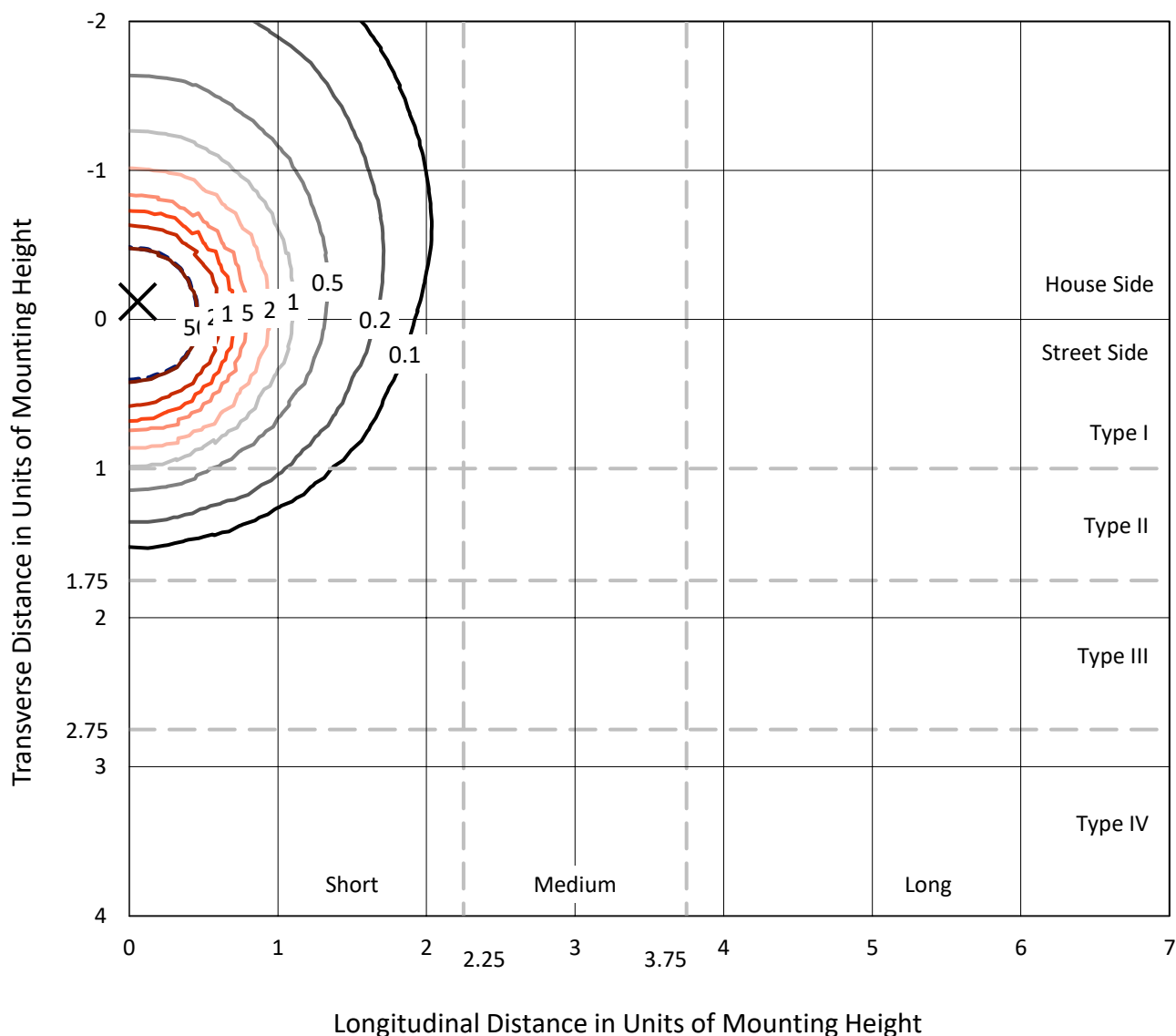
REPORT NUMBER: P637737

CATALOG NUMBER: IFLD-S-SA6E-827-U-55-VI

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



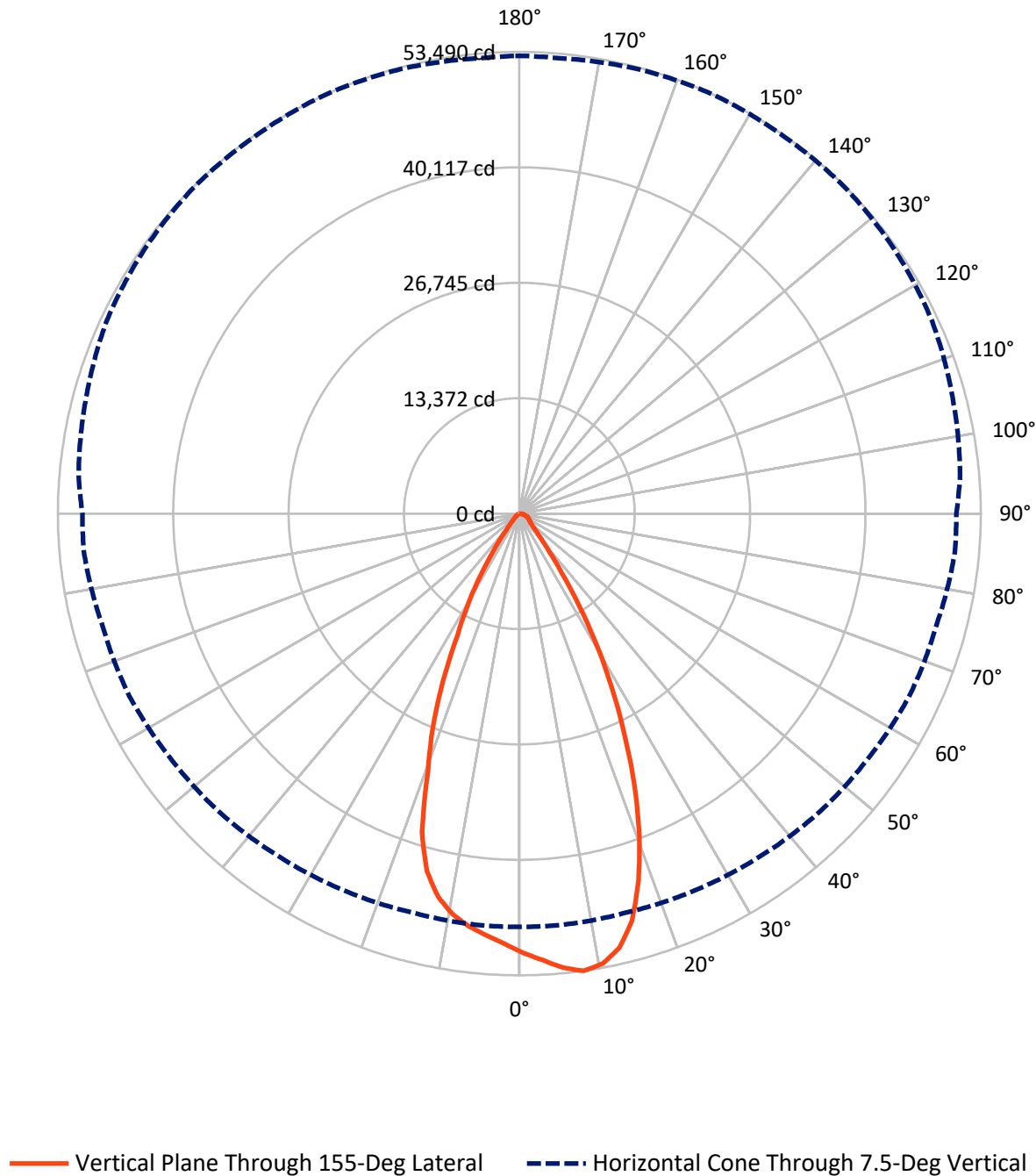
Based on 20 foot mounting height. Maximum calculated value = 129.3 fc

Type I - Short - N/A

REPORT NUMBER: P637737

CATALOG NUMBER: IFLD-S-SA6E-827-U-55-VI

Luminous Intensity Polar Plot



REPORT NUMBER: P637737

CATALOG NUMBER: IFLD-S-SA6E-827-U-55-VI

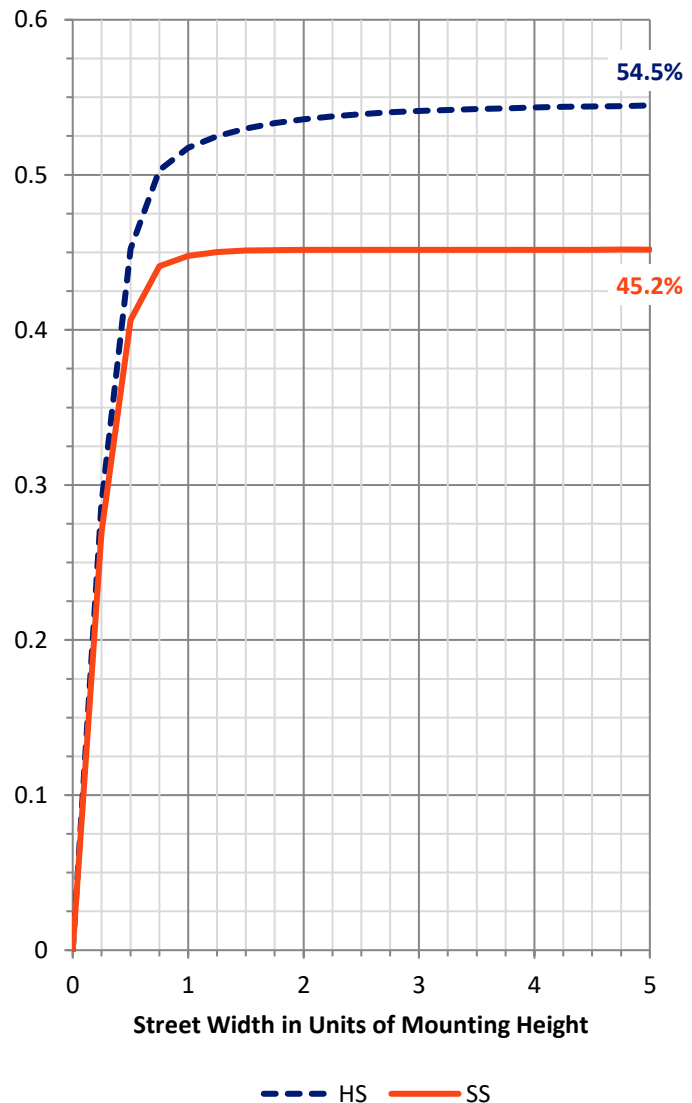
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	20169.7	0.0	20169.7
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	16367.2	0.0	16367.2
	% Fixture	44.8	0.0	44.8
Total	Lumens	36536.9	0.0	36536.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4853.5	13.3
10°-20°	12585.2	34.4
20°-30°	11531.6	31.6
30°-40°	4658.8	12.8
40°-50°	1366.7	3.7
50°-60°	764.1	2.1
60°-70°	464.1	1.3
70°-80°	235.8	0.6
80°-90°	77.1	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°	36536.9	100.0
0°-180°	36536.9	100.0

Coefficient of Utilization



REPORT NUMBER: P637737

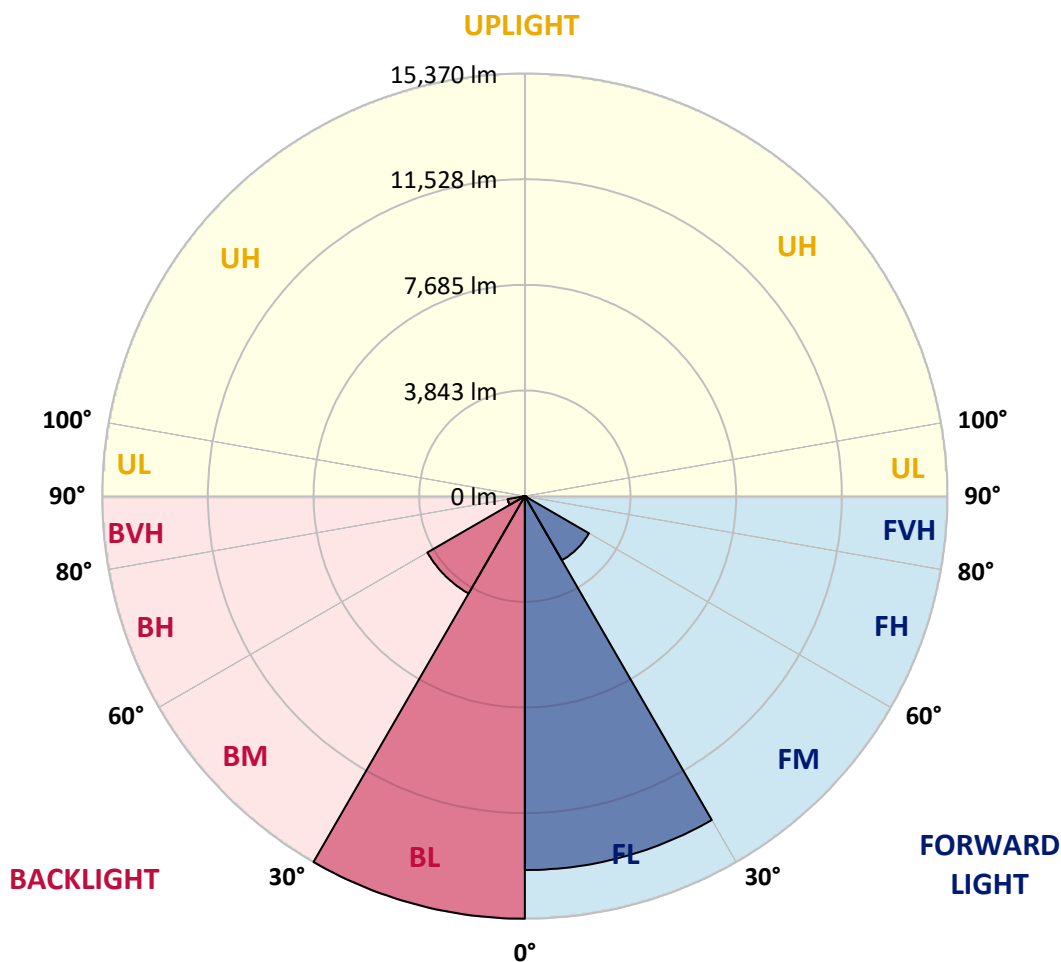
CATALOG NUMBER: IFLD-S-SA6E-827-U-55-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	13600.0	37.2			
FM	(30°-60°)	2695.3	7.4			
FH	(60°-80°)	65.3	0.2			G0/660
FVH	(80°-90°)	6.7	0.0			G0/10
BL	(0°-30°)	15370.4	42.1	B5		
BM	(30°-60°)	4094.3	11.2	B3/5000		
BH	(60°-80°)	634.6	1.7	B2/1000		G2/1000
BVH	(80°-90°)	70.4	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-G2

Type I Short



REPORT NUMBER: P637737

CATALOG NUMBER: IFLD-S-SA6E-827-U-55-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	50898.8	50898.8	50898.8	50898.8	50898.8	50898.8	50898.8	50898.8	50898.8	50898.8
2.5°	49794.9	49963.5	49626.4	49849.7	50022.5	50435.3	50469.0	50612.3	50662.8	51037.8
5°	48851.2	48981.8	48708.0	49007.1	49251.4	49618.0	49900.3	50296.3	50515.4	50957.8
7.5°	47869.5	47899.0	47844.3	48160.2	48526.8	49032.4	49382.1	49900.3	50035.1	50667.1
10°	46681.4	46466.6	46571.9	47035.3	47583.1	48358.3	48598.4	49116.6	49356.8	50001.4
12.5°	44785.5	44895.1	44764.5	45354.3	45809.3	46689.9	46942.7	47465.1	47924.3	48493.1
15°	42114.4	42051.2	42316.6	42775.9	43268.8	43968.2	44376.9	44945.6	45295.3	45885.2
17.5°	36110.7	36325.6	37421.0	38571.2	39582.3	40399.7	40888.4	41360.3	41613.1	42253.4
20°	31185.6	30915.9	31063.4	31712.2	34589.8	35841.1	36355.1	36468.8	36574.2	37079.7
22.5°	25679.0	25590.5	26083.5	26812.3	27494.9	30380.9	31080.2	30814.8	31033.9	31510.0
25°	19068.6	19515.2	19953.4	21352.1	22236.9	23652.5	24979.6	25097.6	25177.6	25476.8
27.5°	15521.2	15365.3	15356.8	15748.7	17054.7	18234.4	19363.5	19624.7	19578.4	19864.9
30°	12201.2	12150.7	11973.7	12066.4	11935.8	12984.9	13515.7	14590.1	14531.1	14539.5
32.5°	8801.2	8611.6	8540.0	8679.0	8544.2	8447.3	8910.8	10124.1	10103.1	10187.3
35°	5325.4	5300.1	5359.1	5481.3	5211.6	5203.2	5300.1	6441.9	6580.9	6715.7
37.5°	2940.8	2915.5	2961.8	3412.6	3324.2	3244.1	3269.4	3871.9	4272.1	4373.2
40°	1938.0	1933.8	1967.5	2047.6	2199.3	2169.8	2182.4	2452.0	2831.2	2919.7
42.5°	1297.6	1301.9	1322.9	1415.6	1436.7	1588.3	1563.1	1626.3	1980.2	2056.0
45°	1036.4	1032.2	1044.9	1002.7	1028.0	1183.9	1200.7	1205.0	1508.3	1554.6
47.5°	817.3	817.3	830.0	775.2	762.6	859.5	948.0	960.6	1205.0	1268.2
50°	573.0	573.0	636.2	610.9	640.4	669.9	766.8	779.4	985.9	1053.3
52.5°	421.3	429.7	438.2	442.4	539.3	535.1	619.3	678.3	745.7	863.7
55°	320.2	328.6	307.6	328.6	400.2	446.6	463.4	547.7	594.1	724.7
57.5°	210.7	231.7	214.9	252.8	269.6	345.5	370.8	450.8	480.3	594.1
60°	29.5	33.7	54.8	177.0	189.6	227.5	286.5	358.1	387.6	484.5
62.5°	4.2	4.2	12.6	29.5	126.4	151.7	214.9	248.6	286.5	362.3
65°	0.0	0.0	4.2	8.4	25.3	88.5	109.5	134.8	198.0	261.2
67.5°	0.0	0.0	4.2	8.4	12.6	29.5	46.3	88.5	113.8	181.2
70°	0.0	0.0	4.2	8.4	12.6	16.9	25.3	33.7	67.4	105.3
72.5°	0.0	0.0	4.2	8.4	12.6	16.9	21.1	25.3	29.5	67.4
75°	0.0	0.0	4.2	8.4	12.6	21.1	25.3	25.3	25.3	29.5
77.5°	0.0	0.0	4.2	8.4	16.9	25.3	29.5	25.3	21.1	21.1
80°	0.0	0.0	4.2	12.6	21.1	29.5	33.7	25.3	16.9	12.6
82.5°	0.0	0.0	4.2	12.6	21.1	29.5	33.7	29.5	16.9	12.6
85°	0.0	0.0	4.2	12.6	16.9	21.1	33.7	29.5	16.9	8.4
87.5°	0.0	0.0	0.0	4.2	4.2	8.4	16.9	12.6	8.4	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P637737

CATALOG NUMBER: IFLD-S-SA6E-827-U-55-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
50898.8	0°	50898.8	50898.8	50898.8	50898.8	50898.8	50898.8	50898.8	50898.8	50898.8
51029.4	2.5°	51408.6	51598.2	51931.0	52023.7	52310.2	51981.6	51800.4	51817.2	51425.4
50903.0	5°	51408.6	51842.5	52423.9	52702.0	52912.7	52895.8	52849.5	52731.5	52445.0
50650.2	7.5°	51273.7	51981.6	52782.0	53152.8	53405.6	53384.5	53489.9	53300.3	52950.6
50199.4	10°	50839.8	51454.9	52440.8	52744.1	53152.8	53161.2	53030.6	53068.5	52445.0
48552.1	12.5°	49474.7	49955.0	50818.7	51164.2	51661.4	51741.4	51598.2	51543.4	50953.6
45851.5	15°	46833.1	47111.2	47979.1	48324.6	48817.5	48750.1	48893.3	48834.3	48316.1
42202.9	17.5°	42969.7	43058.2	43968.2	44258.9	44722.3	44903.5	44688.6	44962.5	44515.9
37168.2	20°	37429.4	37905.5	38929.3	39375.9	39645.5	39969.9	39687.7	39995.2	39472.8
31059.2	22.5°	31809.1	32091.4	33018.3	33662.9	34164.2	34227.4	34122.1	34337.0	33633.4
25674.8	25°	25670.6	26138.2	26871.3	27713.9	28206.9	28510.2	28236.4	28375.4	28261.7
19911.2	27.5°	20248.3	20665.4	21217.3	21845.1	22586.6	22982.6	22763.5	22999.5	22443.3
14847.1	30°	14859.7	15070.4	15693.9	16359.6	17172.7	17653.0	17674.1	17914.2	17585.6
10402.2	32.5°	10478.0	10663.4	11046.8	11489.2	12264.4	12799.5	12715.2	12748.9	12546.7
6778.9	35°	6812.6	7061.2	7335.1	7545.7	8013.4	8603.2	8556.9	8514.7	8375.7
4457.5	37.5°	4554.4	4651.3	4803.0	4992.6	5295.9	5666.7	5788.8	5637.2	5578.2
3008.2	40°	3079.8	3248.3	3349.4	3492.7	3635.9	3947.7	4032.0	4002.5	3943.5
2106.6	42.5°	2186.6	2317.2	2443.6	2582.6	2658.5	2852.3	3016.6	2970.3	2945.0
1601.0	45°	1660.0	1777.9	1925.4	2030.7	2106.6	2220.3	2376.2	2393.1	2355.1
1285.0	47.5°	1331.3	1436.7	1554.6	1685.3	1773.7	1845.3	1980.2	2030.7	2005.4
1082.8	50°	1129.1	1209.2	1322.9	1453.5	1550.4	1613.6	1731.6	1786.4	1769.5
905.8	52.5°	960.6	1057.5	1162.8	1272.4	1390.3	1453.5	1563.1	1643.1	1630.5
749.9	55°	796.3	922.7	1032.2	1141.8	1276.6	1339.8	1436.7	1542.0	1520.9
636.2	57.5°	695.2	800.5	914.2	1019.6	1162.8	1247.1	1335.6	1445.1	1440.9
522.4	60°	581.4	686.7	813.1	901.6	1053.3	1171.2	1251.3	1365.1	1373.5
396.0	62.5°	463.4	594.1	691.0	813.1	952.2	1091.2	1167.0	1280.8	1322.9
303.3	65°	345.5	488.7	598.3	720.4	851.1	1006.9	1074.3	1188.1	1230.2
219.1	67.5°	257.0	366.5	505.6	610.9	758.4	893.2	973.2	1078.6	1108.1
130.6	70°	193.8	282.3	421.3	514.0	665.7	775.2	855.3	935.3	973.2
88.5	72.5°	113.8	210.7	332.8	442.4	573.0	665.7	724.7	787.9	813.1
42.1	75°	80.0	160.1	261.2	366.5	463.4	539.3	594.1	648.8	674.1
21.1	77.5°	42.1	118.0	206.4	294.9	362.3	425.5	480.3	522.4	539.3
16.9	80°	25.3	84.3	168.5	231.7	278.1	332.8	387.6	417.1	412.9
12.6	82.5°	16.9	67.4	122.2	168.5	202.2	244.4	282.3	303.3	303.3
8.4	85°	12.6	46.3	84.3	130.6	134.8	168.5	177.0	198.0	202.2
8.4	87.5°	8.4	29.5	46.3	75.8	71.6	88.5	92.7	105.3	113.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
50898.8
51109.4
52537.7
53030.6
52263.8
50818.7
48480.4
44406.4
39430.7
33536.5
28190.0
22586.6
17644.6
12660.4
8253.5
5565.5
3951.9
2923.9
2350.9
1992.8
1765.3
1622.1
1520.9
1436.7
1373.5
1318.7
1226.0
1108.1
964.8
804.7
665.7
535.1
408.7
299.1
198.0
109.5
0.0

(END OF REPORT)