

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: P637672

Luminaire Tested: **IFLD-S-SA3C-750-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637672
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-750-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20352.7 lumens
Efficiency: N/A
Efficacy: 126.6 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): 160.8
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



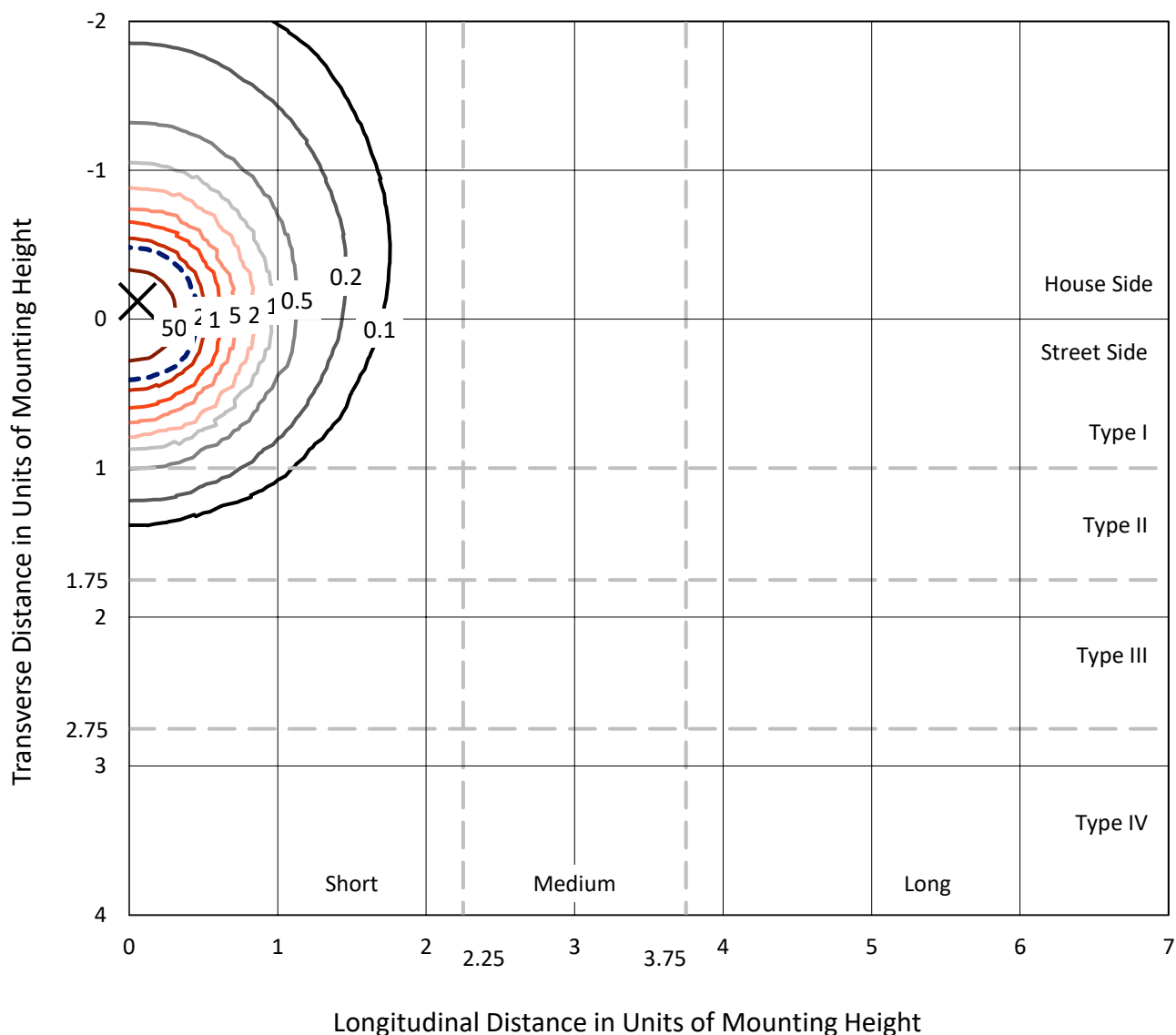
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

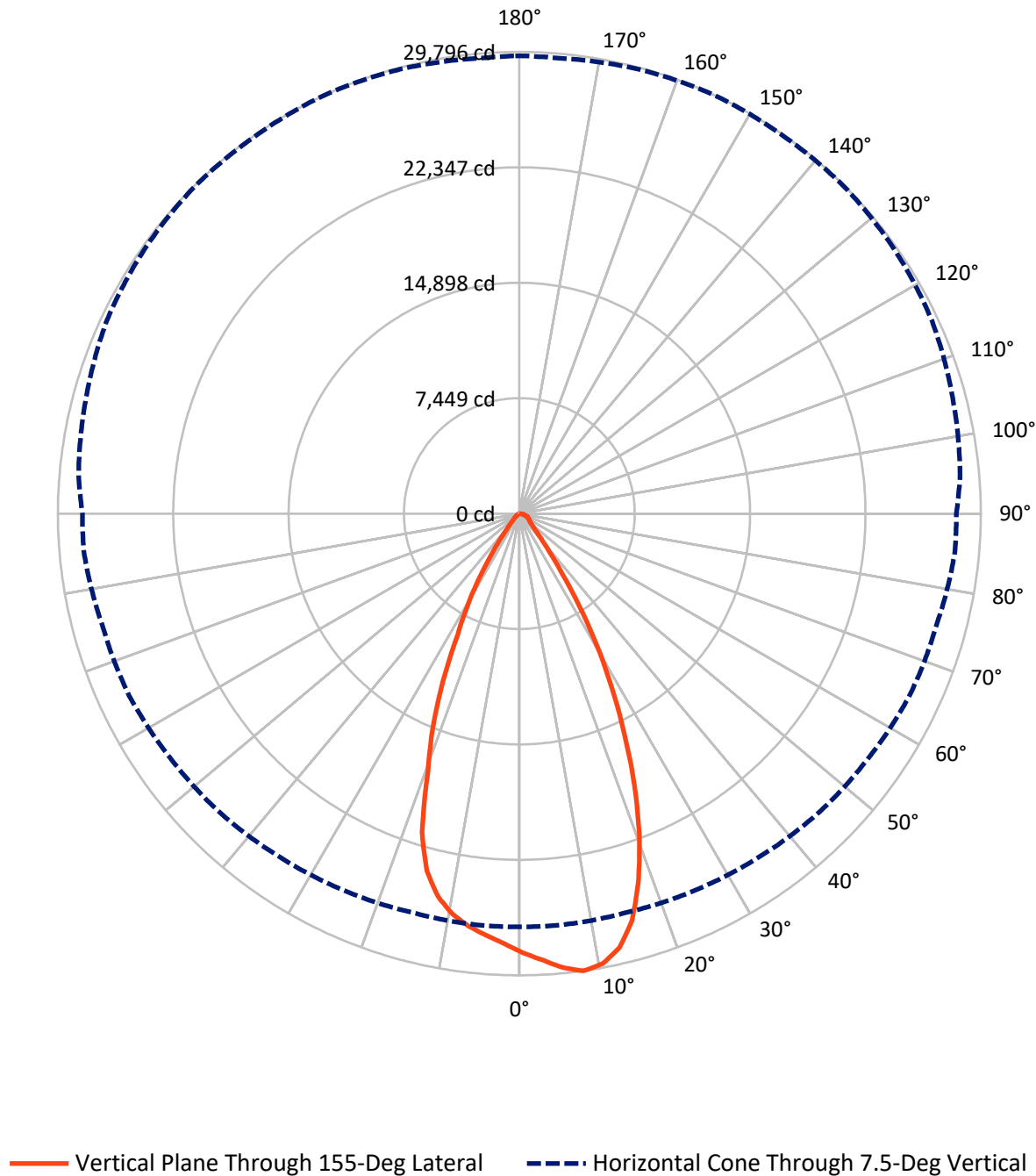


Based on 20 foot mounting height. Maximum calculated value = 72.1 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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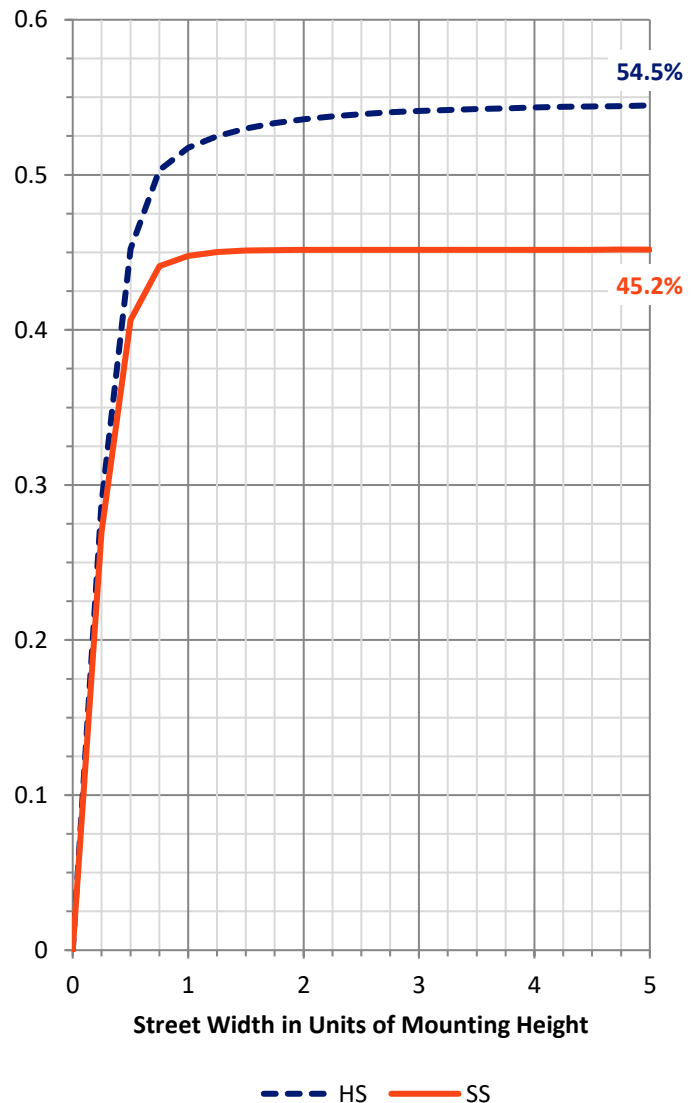
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11235.5	0.0	11235.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	9117.3	0.0	9117.3
	% Fixture	44.8	0.0	44.8
Total	Lumens	20352.7	0.0	20352.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2703.6	13.3
10°-20°	7010.6	34.4
20°-30°	6423.6	31.6
30°-40°	2595.1	12.8
40°-50°	761.3	3.7
50°-60°	425.7	2.1
60°-70°	258.5	1.3
70°-80°	131.4	0.6
80°-90°	43.0	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°	20352.7	100.0
0°-180°	20352.7	100.0

Coefficient of Utilization



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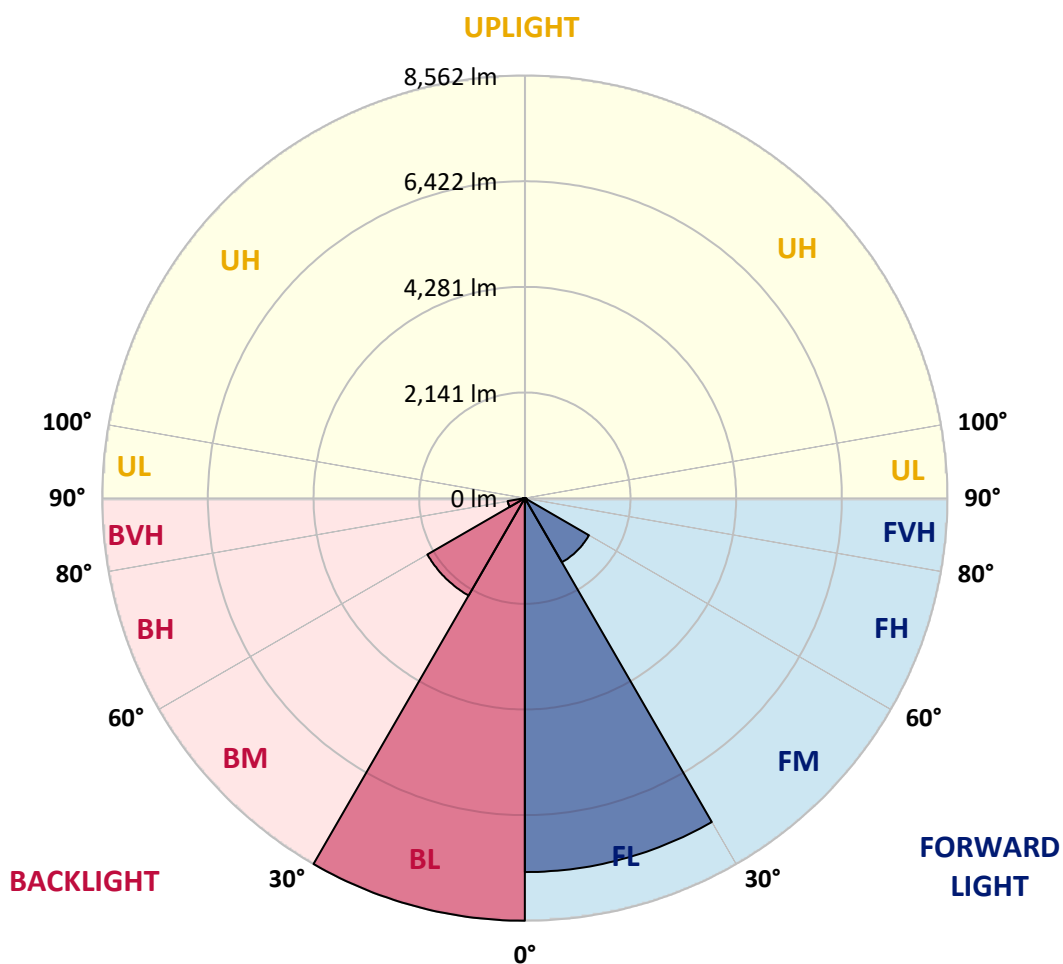
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7575.8	37.2			
FM	(30°-60°)	1501.4	7.4			
FH	(60°-80°)	36.4	0.2			G0/660
FVH	(80°-90°)	3.7	0.0			G0/10
BL	(0°-30°)	8562.0	42.1	B5		
BM	(30°-60°)	2280.7	11.2	B2/2500		
BH	(60°-80°)	353.5	1.7	B1/500		G1/500
BVH	(80°-90°)	39.2	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°	28353.0	28353.0	28353.0	28353.0	28353.0	28353.0	28353.0	28353.0	28353.0	28353.0
2.5°	27738.1	27832.0	27644.2	27768.6	27864.8	28094.8	28113.6	28193.4	28221.5	28430.4
5°	27212.4	27285.1	27132.6	27299.2	27435.3	27639.5	27796.7	28017.4	28139.4	28385.8
7.5°	26665.5	26682.0	26651.5	26827.5	27031.7	27313.3	27508.1	27796.7	27871.9	28223.9
10°	26003.7	25884.0	25942.7	26200.9	26506.0	26937.8	27071.6	27360.2	27494.0	27853.1
12.5°	24947.6	25008.6	24935.9	25264.4	25517.9	26008.4	26149.2	26440.2	26696.1	27012.9
15°	23459.7	23424.5	23572.3	23828.1	24102.7	24492.3	24720.0	25036.8	25231.6	25560.1
17.5°	20115.3	20235.0	20845.2	21485.9	22049.2	22504.5	22776.7	23039.6	23180.4	23537.1
20°	17371.8	17221.6	17303.7	17665.2	19268.1	19965.1	20251.4	20314.8	20373.5	20655.1
22.5°	14304.4	14255.1	14529.7	14935.7	15315.9	16923.5	17313.1	17165.3	17287.3	17552.5
25°	10622.1	10870.9	11114.9	11894.1	12387.0	13175.5	13914.8	13980.5	14025.1	14191.7
27.5°	8646.0	8559.2	8554.5	8772.7	9500.3	10157.4	10786.4	10931.9	10906.1	11065.7
30°	6796.6	6768.5	6669.9	6721.5	6648.8	7233.2	7528.9	8127.3	8094.5	8099.2
32.5°	4902.7	4797.1	4757.2	4834.6	4759.5	4705.5	4963.7	5639.6	5627.9	5674.8
35°	2966.5	2952.4	2985.3	3053.3	2903.1	2898.4	2952.4	3588.4	3665.9	3741.0
37.5°	1638.1	1624.1	1649.9	1901.0	1851.7	1807.1	1821.2	2156.8	2379.8	2436.1
40°	1079.6	1077.2	1096.0	1140.6	1225.1	1208.7	1215.7	1365.9	1577.1	1626.4
42.5°	722.8	725.2	736.9	788.6	800.3	884.8	870.7	905.9	1103.0	1145.3
45°	577.3	575.0	582.0	558.6	572.6	659.5	668.9	671.2	840.2	866.0
47.5°	455.3	455.3	462.3	431.8	424.8	478.8	528.1	535.1	671.2	706.4
50°	319.2	319.2	354.4	340.3	356.7	373.2	427.1	434.2	549.2	586.7
52.5°	234.7	239.4	244.1	246.4	300.4	298.1	345.0	377.9	415.4	481.1
55°	178.4	183.1	171.3	183.1	223.0	248.8	258.2	305.1	330.9	403.7
57.5°	117.3	129.1	119.7	140.8	150.2	192.4	206.5	251.1	267.5	330.9
60°	16.4	18.8	30.5	98.6	105.6	126.7	159.6	199.5	215.9	269.9
62.5°	2.3	2.3	7.0	16.4	70.4	84.5	119.7	138.5	159.6	201.8
65°	0.0	0.0	2.3	4.7	14.1	49.3	61.0	75.1	110.3	145.5
67.5°	0.0	0.0	2.3	4.7	7.0	16.4	25.8	49.3	63.4	100.9
70°	0.0	0.0	2.3	4.7	7.0	9.4	14.1	18.8	37.6	58.7
72.5°	0.0	0.0	2.3	4.7	7.0	9.4	11.7	14.1	16.4	37.6
75°	0.0	0.0	2.3	4.7	7.0	11.7	14.1	14.1	14.1	16.4
77.5°	0.0	0.0	2.3	4.7	9.4	14.1	16.4	14.1	11.7	11.7
80°	0.0	0.0	2.3	7.0	11.7	16.4	18.8	14.1	9.4	7.0
82.5°	0.0	0.0	2.3	7.0	11.7	16.4	18.8	16.4	9.4	7.0
85°	0.0	0.0	2.3	7.0	9.4	11.7	18.8	16.4	9.4	4.7
87.5°	0.0	0.0	0.0	2.3	2.3	4.7	9.4	7.0	4.7	2.3
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°
28353.0	0°	28353.0	28353.0	28353.0	28353.0	28353.0	28353.0	28353.0	28353.0	28353.0
28425.7	2.5°	28636.9	28742.6	28928.0	28979.6	29139.2	28956.1	28855.2	28864.6	28646.3
28355.3	5°	28636.9	28878.7	29202.5	29357.4	29474.8	29465.4	29439.6	29373.9	29214.3
28214.5	7.5°	28561.8	28956.1	29402.0	29608.6	29749.4	29737.6	29796.3	29690.7	29495.9
27963.4	10°	28320.1	28662.8	29211.9	29380.9	29608.6	29613.3	29540.5	29561.6	29214.3
27045.7	12.5°	27559.7	27827.3	28308.4	28500.8	28777.8	28822.3	28742.6	28712.0	28383.5
25541.4	15°	26088.2	26243.1	26726.6	26919.0	27193.6	27156.0	27235.8	27203.0	26914.3
23509.0	17.5°	23936.1	23985.4	24492.3	24654.2	24912.4	25013.3	24893.6	25046.2	24797.4
20704.4	20°	20849.9	21115.1	21685.4	21934.2	22084.4	22265.1	22107.9	22279.2	21988.2
17301.4	22.5°	17719.1	17876.4	18392.7	18751.8	19031.1	19066.3	19007.6	19127.3	18735.3
14302.0	25°	14299.7	14560.2	14968.6	15437.9	15712.5	15881.5	15729.0	15806.4	15743.0
11091.5	27.5°	11279.2	11511.6	11819.0	12168.7	12581.8	12802.4	12680.3	12811.8	12502.0
8270.5	30°	8277.5	8394.9	8742.2	9113.0	9566.0	9833.5	9845.3	9979.0	9796.0
5794.5	32.5°	5836.8	5940.0	6153.6	6400.0	6831.8	7129.9	7083.0	7101.7	6989.1
3776.2	35°	3794.9	3933.4	4086.0	4203.3	4463.8	4792.4	4766.6	4743.1	4665.6
2483.0	37.5°	2537.0	2591.0	2675.5	2781.1	2950.1	3156.6	3224.6	3140.2	3107.3
1675.7	40°	1715.6	1809.5	1865.8	1945.6	2025.4	2199.1	2246.0	2229.6	2196.7
1173.5	42.5°	1218.0	1290.8	1361.2	1438.7	1480.9	1588.9	1680.4	1654.6	1640.5
891.8	45°	924.7	990.4	1072.5	1131.2	1173.5	1236.8	1323.7	1333.0	1311.9
715.8	47.5°	741.6	800.3	866.0	938.8	988.0	1027.9	1103.0	1131.2	1117.1
603.2	50°	629.0	673.6	736.9	809.7	863.7	898.9	964.6	995.1	985.7
504.6	52.5°	535.1	589.1	647.7	708.8	774.5	809.7	870.7	915.3	908.3
417.7	55°	443.6	514.0	575.0	636.0	711.1	746.3	800.3	859.0	847.2
354.4	57.5°	387.2	445.9	509.3	568.0	647.7	694.7	744.0	805.0	802.6
291.0	60°	323.9	382.5	453.0	502.2	586.7	652.4	697.0	760.4	765.1
220.6	62.5°	258.2	330.9	384.9	453.0	530.4	607.8	650.1	713.5	736.9
169.0	65°	192.4	272.2	333.3	401.3	474.1	560.9	598.5	661.8	685.3
122.0	67.5°	143.2	204.2	281.6	340.3	422.4	497.5	542.1	600.8	617.2
72.8	70°	108.0	157.2	234.7	286.3	370.8	431.8	476.4	521.0	542.1
49.3	72.5°	63.4	117.3	185.4	246.4	319.2	370.8	403.7	438.9	453.0
23.5	75°	44.6	89.2	145.5	204.2	258.2	300.4	330.9	361.4	375.5
11.7	77.5°	23.5	65.7	115.0	164.3	201.8	237.0	267.5	291.0	300.4
9.4	80°	14.1	46.9	93.9	129.1	154.9	185.4	215.9	232.3	230.0
7.0	82.5°	9.4	37.6	68.1	93.9	112.7	136.1	157.2	169.0	169.0
4.7	85°	7.0	25.8	46.9	72.8	75.1	93.9	98.6	110.3	112.7
4.7	87.5°	4.7	16.4	25.8	42.2	39.9	49.3	51.6	58.7	63.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
28353.0
28470.3
29265.9
29540.5
29113.4
28308.4
27005.8
24736.4
21964.7
18681.4
15703.1
12581.8
9828.8
7052.5
4597.6
3100.3
2201.4
1628.8
1309.6
1110.1
983.4
903.6
847.2
800.3
765.1
734.6
682.9
617.2
537.4
448.3
370.8
298.1
227.6
166.6
110.3
61.0
0.0

(END OF REPORT)