

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: P638151

Luminaire Tested: **IFLD-L-SA7C-735-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638151
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7C-735-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (112) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33631.4 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

Input Watts (W): 369
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



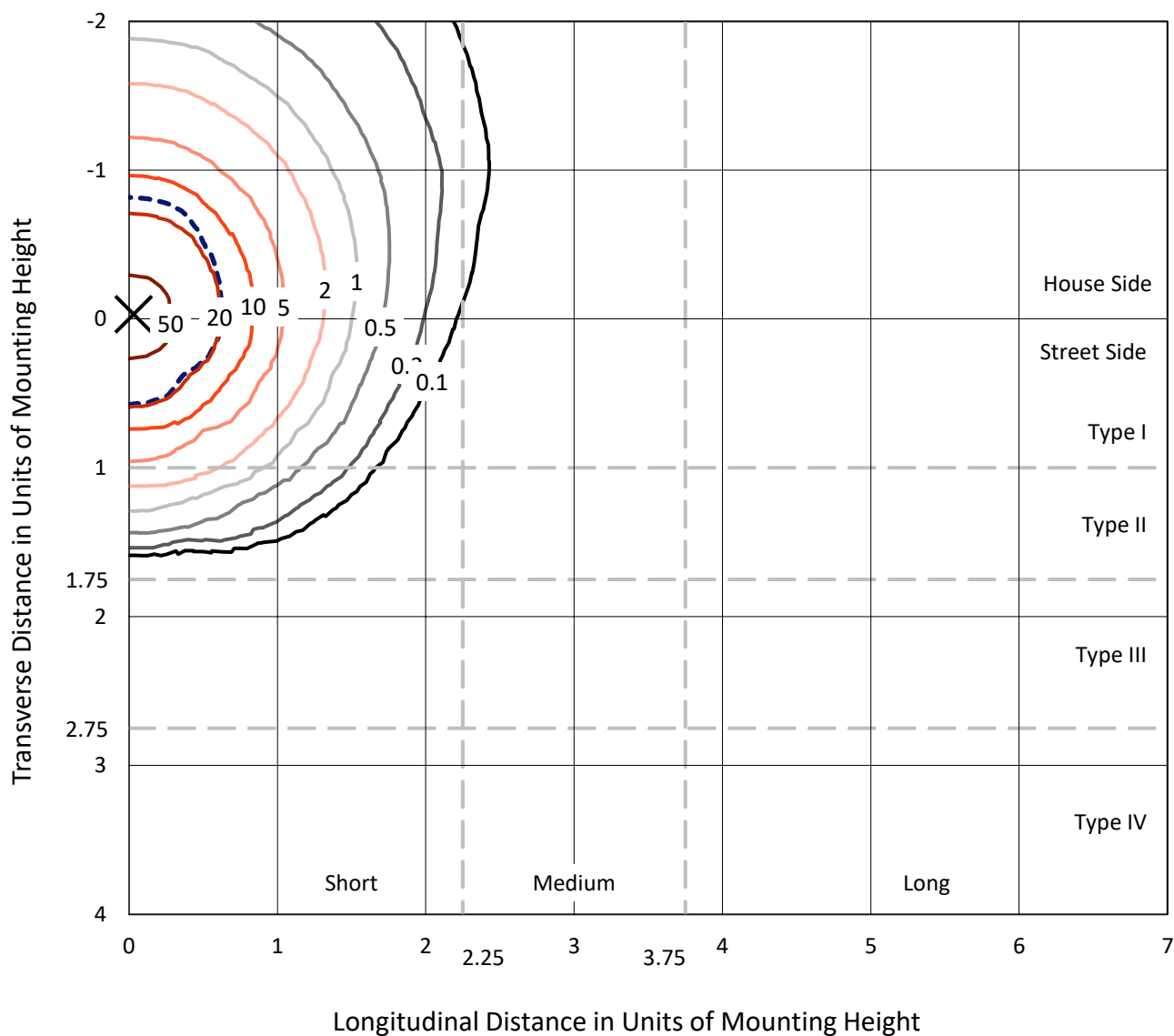
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

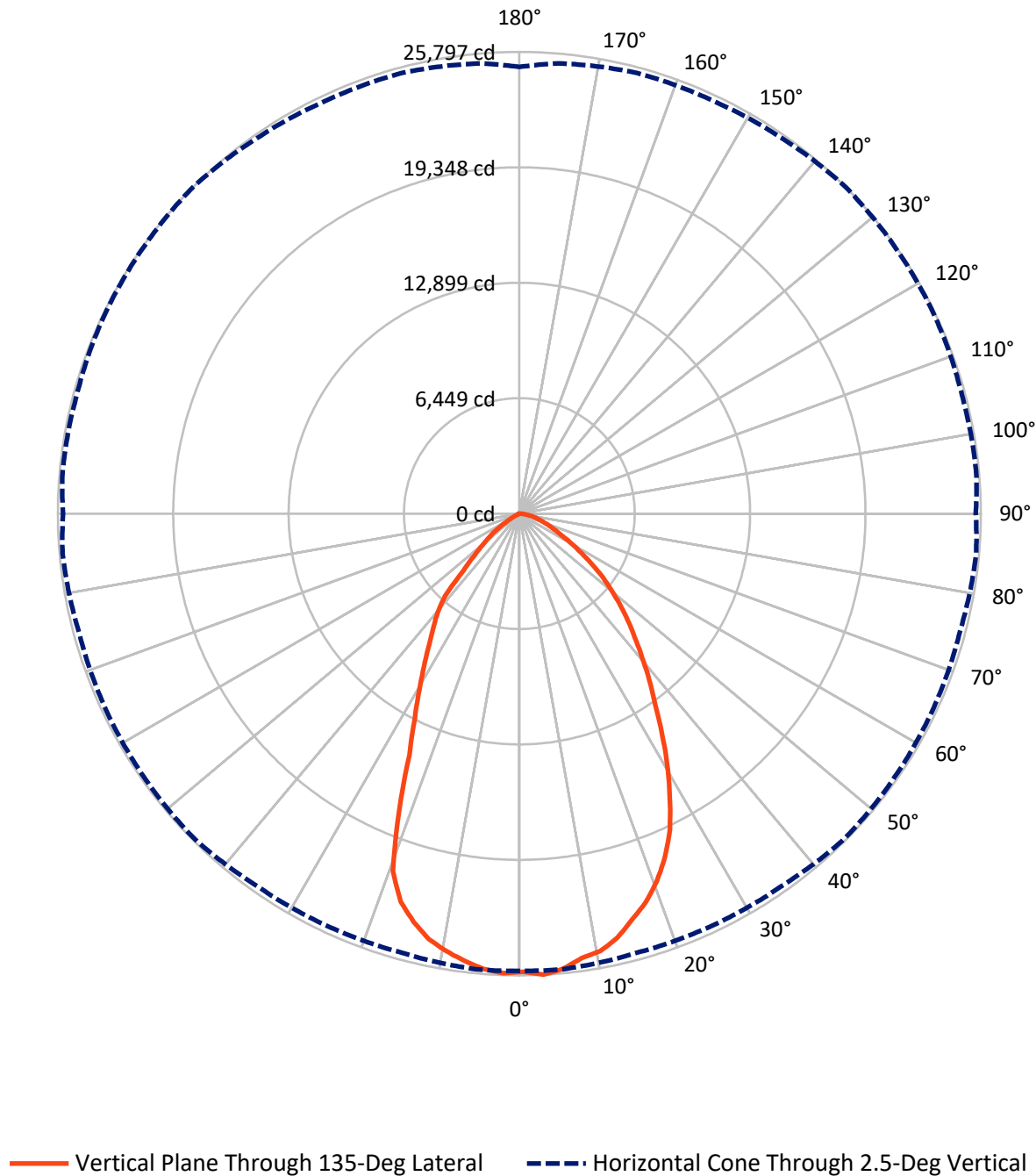


Based on 20 foot mounting height. Maximum calculated value = 64 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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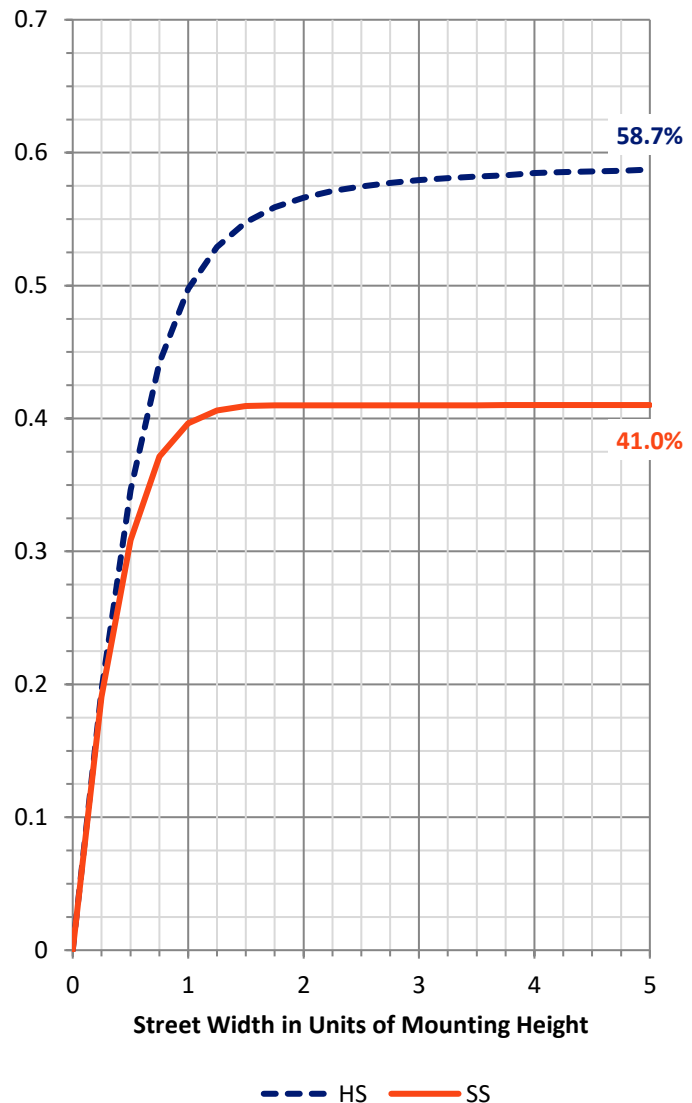
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19918.3	0.0	19918.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	13713.2	0.0	13713.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	33631.4	0.0	33631.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2400.3	7.1
10°-20°	6436.4	19.1
20°-30°	7849.6	23.3
30°-40°	7166.6	21.3
40°-50°	5179.1	15.4
50°-60°	2827.9	8.4
60°-70°	1169.2	3.5
70°-80°	473.5	1.4
80°-90°	128.8	0.4
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°	33631.4	100.0
0°-180°	33631.4	100.0

Coefficient of Utilization



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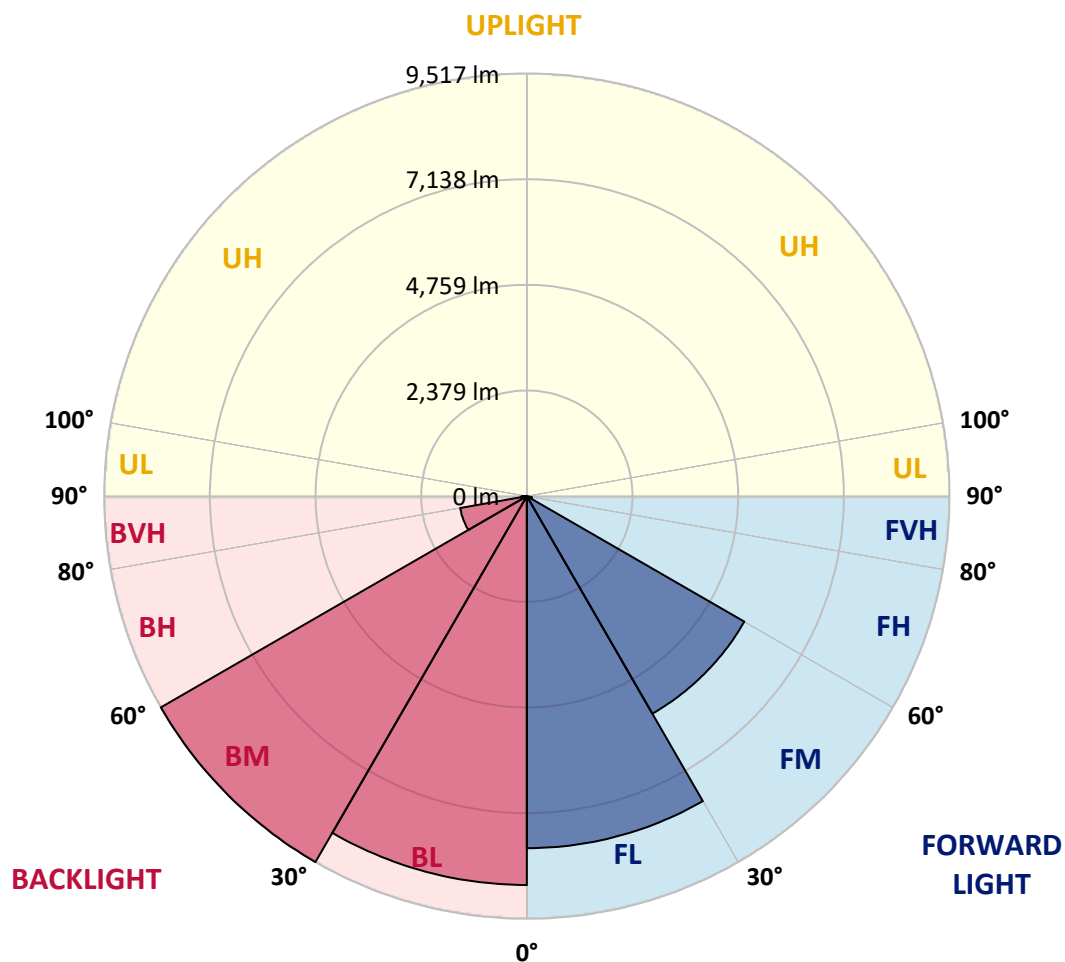
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	7928.2	23.6			
FM	(30°-60°)	5656.2	16.8			
FH	(60°-80°)	118.5	0.4			G0/660
FVH	(80°-90°)	10.3	0.0			G1/100
BL	(0°-30°)	8758.1	26.0	B5		
BM	(30°-60°)	9517.4	28.3	B5		
BH	(60°-80°)	1524.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	118.5	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	25593.4	25593.4	25593.4	25593.4	25593.4	25593.4	25593.4	25593.4	25593.4	25593.4
2.5°	25546.1	25579.2	25399.3	25418.2	25451.3	25692.9	25631.3	25574.5	25494.0	25631.3
5°	25512.9	25531.9	25342.4	25276.1	25304.5	25522.4	25323.5	25323.5	25304.5	25280.9
7.5°	25257.2	25266.6	25119.8	25001.4	25077.2	25176.7	25029.8	25100.9	24996.7	25077.2
10°	24873.6	24812.0	24636.8	24603.6	24688.8	24783.6	24684.1	24750.4	24655.7	24717.3
12.5°	24310.0	24215.2	24073.2	24030.5	24177.4	24305.2	24224.7	24186.8	24063.7	24215.2
15°	22136.1	22065.1	22387.1	22950.7	23457.5	23566.4	23481.2	23519.1	23263.3	23305.9
17.5°	18219.5	18086.8	18432.6	19768.1	21672.0	22676.0	22600.3	22354.0	21975.1	22060.4
20°	16557.1	16519.2	16481.3	16798.6	18129.5	21174.7	21278.9	20653.8	20113.9	19995.5
22.5°	15619.4	15605.2	15567.3	15638.3	15988.8	17944.8	19138.2	18560.4	18200.5	18167.4
25°	14762.2	14738.5	14624.8	14714.8	14714.8	14828.5	16358.2	16708.7	16391.3	16353.5
27.5°	13890.7	13848.1	13829.2	13871.8	13653.9	12886.7	13275.1	14984.8	14819.0	14828.5
30°	12948.3	12934.1	12882.0	12971.9	12299.4	11347.5	11101.2	13421.9	13455.0	13445.5
32.5°	11546.4	11608.0	11844.8	11944.2	10836.0	10049.8	9637.8	11612.7	12290.0	12275.8
35°	8387.5	8387.5	9159.5	10594.5	9495.7	8903.7	8681.1	9846.2	11139.1	11186.5
37.5°	6895.6	6919.3	7070.9	7724.4	8193.3	7984.9	7918.6	8288.0	9661.5	9737.2
40°	6204.2	6204.2	6204.2	5934.2	5920.0	7194.0	7156.1	7037.7	8344.9	8510.6
42.5°	5574.3	5588.5	5598.0	4916.0	4537.1	6218.4	6133.1	5953.2	7165.6	7359.8
45°	4925.5	4949.1	4977.6	4110.9	3945.1	4475.5	5190.7	4991.8	6000.5	6251.5
47.5°	3007.4	3045.3	3689.4	3485.7	3504.7	3452.6	4234.0	4200.8	4920.7	5275.9
50°	2031.8	2046.0	2107.5	2211.7	3007.4	2713.7	2997.9	3476.2	3736.7	4276.6
52.5°	1705.0	1728.6	1577.1	1435.0	1974.9	2121.7	2093.3	2581.1	2685.3	3353.1
55°	1198.2	1274.0	1202.9	1188.7	1122.4	1648.1	1586.6	1984.4	2050.7	2548.0
57.5°	123.1	142.1	246.3	885.6	734.1	933.0	1131.9	1454.0	1520.3	1880.2
60°	9.5	9.5	23.7	123.1	535.2	558.8	781.4	895.1	1023.0	1311.9
62.5°	0.0	4.7	9.5	18.9	85.2	298.4	393.1	468.9	615.7	847.7
65°	0.0	0.0	4.7	14.2	18.9	113.7	151.6	246.3	336.3	525.7
67.5°	0.0	0.0	4.7	9.5	14.2	28.4	52.1	90.0	180.0	298.4
70°	0.0	0.0	4.7	9.5	14.2	23.7	37.9	56.8	80.5	161.0
72.5°	0.0	0.0	4.7	4.7	9.5	23.7	28.4	37.9	56.8	80.5
75°	0.0	0.0	4.7	4.7	14.2	28.4	23.7	28.4	37.9	52.1
77.5°	0.0	0.0	4.7	9.5	14.2	28.4	23.7	28.4	28.4	33.2
80°	0.0	0.0	4.7	9.5	18.9	33.2	28.4	28.4	23.7	23.7
82.5°	0.0	0.0	4.7	14.2	18.9	42.6	42.6	37.9	18.9	14.2
85°	0.0	0.0	9.5	18.9	28.4	47.4	47.4	37.9	14.2	9.5
87.5°	0.0	0.0	9.5	14.2	23.7	33.2	47.4	37.9	14.2	4.7
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°
25593.4	0°	25593.4	25593.4	25593.4	25593.4	25593.4	25593.4	25593.4	25593.4	25593.4
25512.9	2.5°	25640.8	25612.4	25707.1	25745.0	25797.1	25598.2	25475.0	25479.8	25252.4
25224.0	5°	25375.6	25380.3	25503.4	25494.0	25546.1	25437.1	25389.8	25309.3	25110.4
24859.3	7.5°	25039.3	24996.7	25115.1	25205.1	25072.5	25148.2	25039.3	25077.2	24958.8
24537.3	10°	24778.8	24679.4	24788.3	24849.9	24854.6	24778.8	24674.6	24575.2	24532.6
24035.3	12.5°	24201.0	24073.2	24257.9	24343.1	24328.9	24182.1	24063.7	24087.4	23950.0
23154.4	15°	23405.4	23410.1	23542.7	23623.2	23547.5	23514.3	23523.8	23467.0	23348.6
21937.2	17.5°	22188.2	22259.3	22609.7	22803.9	22846.5	22780.2	22747.1	22680.8	22562.4
19995.5	20°	20161.2	20587.5	21212.6	21814.1	21932.5	21913.5	21795.1	21766.7	21700.4
18072.6	22.5°	18380.5	18697.8	19422.4	20360.1	20843.2	20890.6	20748.5	20705.9	20634.8
16353.5	25°	16538.2	16879.2	17532.7	18551.0	19550.3	19753.9	19730.2	19602.4	19526.6
14828.5	27.5°	14984.8	15325.7	15917.7	16836.5	17906.9	18560.4	18622.0	18418.4	18413.6
13469.2	30°	13582.9	14051.8	14501.7	15250.0	16287.2	17267.5	17371.7	17229.6	17243.8
12223.7	32.5°	12484.1	12872.5	13256.1	13758.1	14620.1	15761.5	16168.8	16036.1	15984.1
11186.5	35°	11361.7	11626.9	12020.0	12479.4	13066.7	14198.6	14904.2	14804.8	14752.7
9784.6	37.5°	10083.0	10537.6	10821.8	11338.0	11797.4	12697.3	13691.8	13677.6	13568.7
8591.1	40°	8771.1	9249.4	9680.4	10201.4	10556.6	11271.7	12375.2	12370.5	12384.7
7355.0	42.5°	7582.4	8022.8	8543.8	9112.1	9453.1	9974.0	11158.1	11224.4	11304.9
6336.8	45°	6507.3	6905.1	7388.2	8079.6	8491.7	8790.0	9841.4	10144.5	10139.8
5427.5	47.5°	5541.1	5915.3	6322.6	6995.1	7520.8	7790.7	8662.2	9093.1	9064.7
4451.9	50°	4650.8	4982.3	5408.5	5896.3	6602.0	6838.8	7487.6	8056.0	8013.3
3547.3	52.5°	3741.5	4200.8	4560.8	5006.0	5749.5	5981.6	6483.6	7037.7	7004.6
2661.6	55°	2917.4	3362.6	3798.3	4181.9	4807.1	5152.8	5512.7	6081.0	6071.6
2083.8	57.5°	2207.0	2694.8	3106.8	3471.5	3968.8	4395.0	4683.9	5200.1	5266.4
1425.5	60°	1633.9	2008.1	2453.3	2860.6	3253.6	3694.1	3888.3	4395.0	4423.4
975.6	62.5°	1113.0	1525.0	1960.7	2330.1	2623.8	3078.4	3253.6	3670.4	3722.5
625.2	65°	772.0	1037.2	1534.5	1799.7	2159.6	2548.0	2723.2	3054.7	3158.9
359.9	67.5°	511.5	738.8	1198.2	1439.7	1794.9	2060.2	2282.8	2552.7	2666.4
227.3	70°	279.4	544.6	857.2	1136.6	1444.5	1700.2	1918.1	2135.9	2235.4
104.2	72.5°	189.4	364.7	596.7	899.8	1165.1	1416.1	1610.2	1771.3	1776.0
61.6	75°	94.7	246.3	454.7	696.2	909.3	1155.6	1330.8	1425.5	1311.9
37.9	77.5°	56.8	180.0	369.4	558.8	738.8	933.0	1032.5	1084.5	899.8
28.4	80°	33.2	127.9	288.9	445.2	511.5	686.7	781.4	795.7	601.5
18.9	82.5°	23.7	94.7	227.3	326.8	312.6	483.1	587.3	568.3	383.6
14.2	85°	14.2	66.3	142.1	203.6	189.4	317.3	341.0	350.5	222.6
9.5	87.5°	9.5	37.9	75.8	108.9	90.0	137.3	137.3	165.8	108.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
25593.4
24958.8
25063.0
24759.9
24343.1
23831.6
23230.2
22510.3
21548.9
20615.9
19446.1
18404.2
17172.8
15988.8
14681.6
13658.7
12384.7
11262.2
10149.3
9074.2
8051.2
7075.6
6095.3
5238.0
4466.1
3732.0
3135.2
2652.2
2197.5
1733.4
1226.6
866.7
563.6
355.2
203.6
94.7
0.0

(END OF REPORT)