

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: P636543

Luminaire Tested: **IFLD-S-SA3E-950-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636543
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-950-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (48) 5000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16128.5 lumens
Efficiency: N/A
Efficacy: 69.5 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

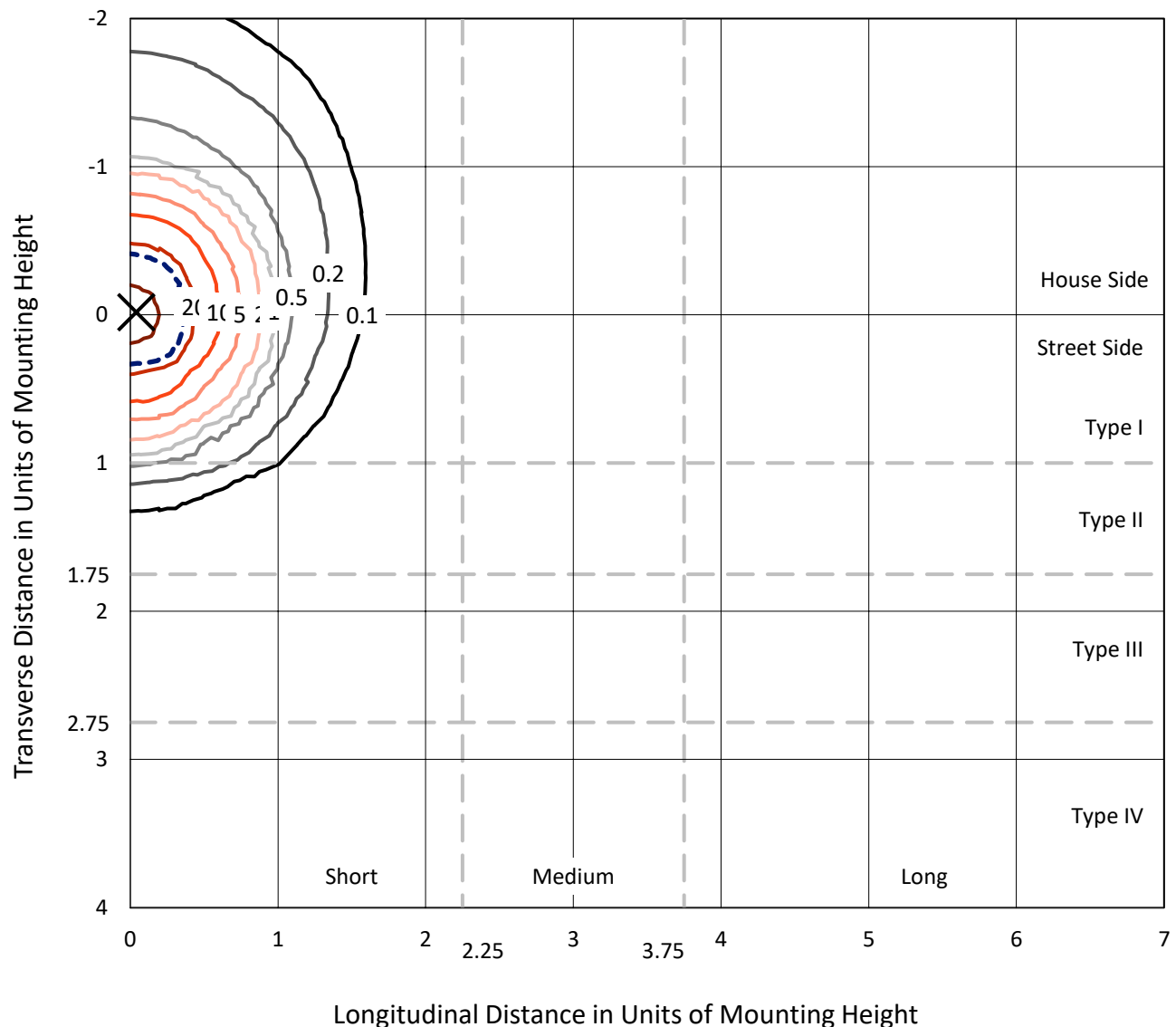
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

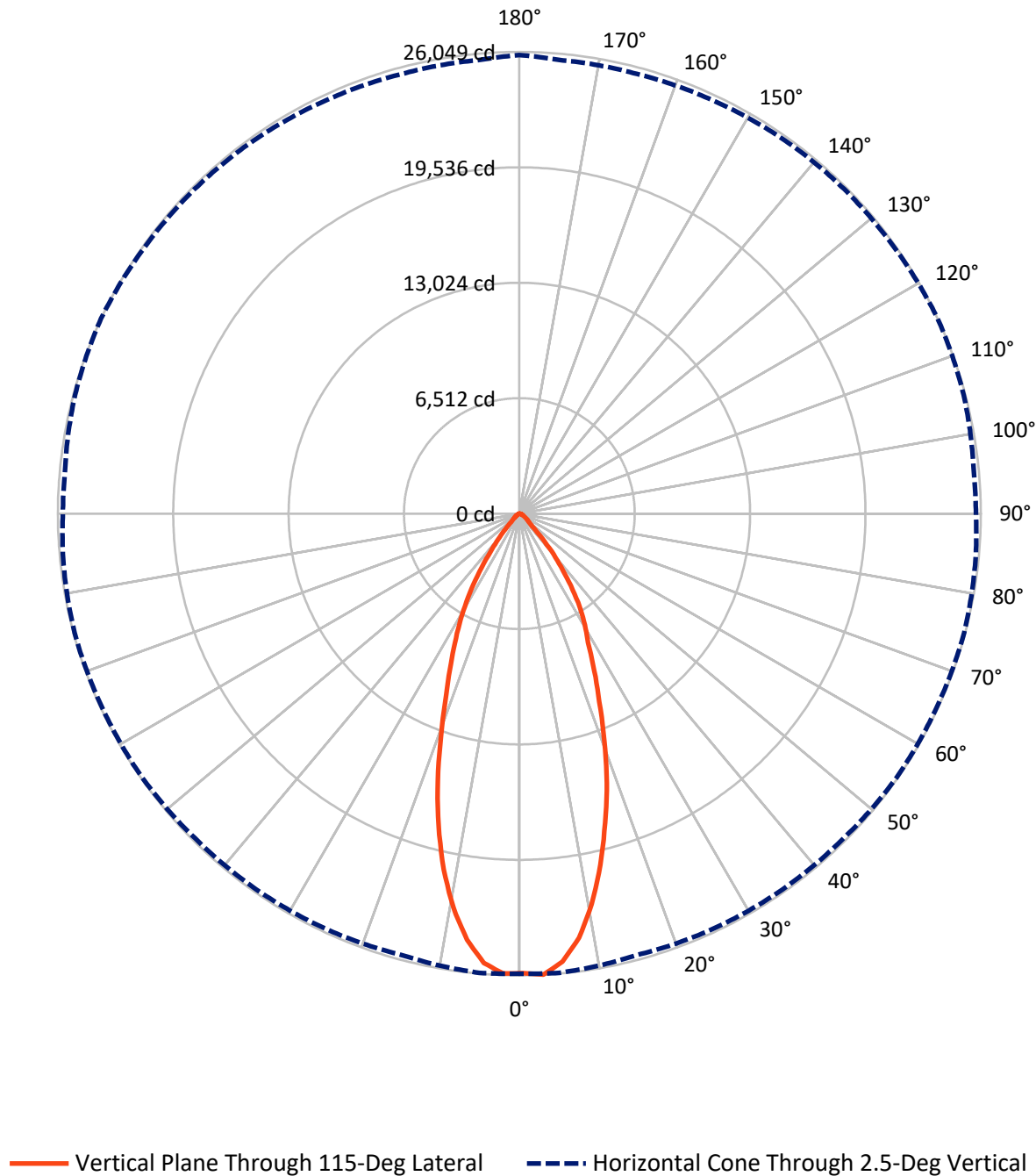
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 64.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



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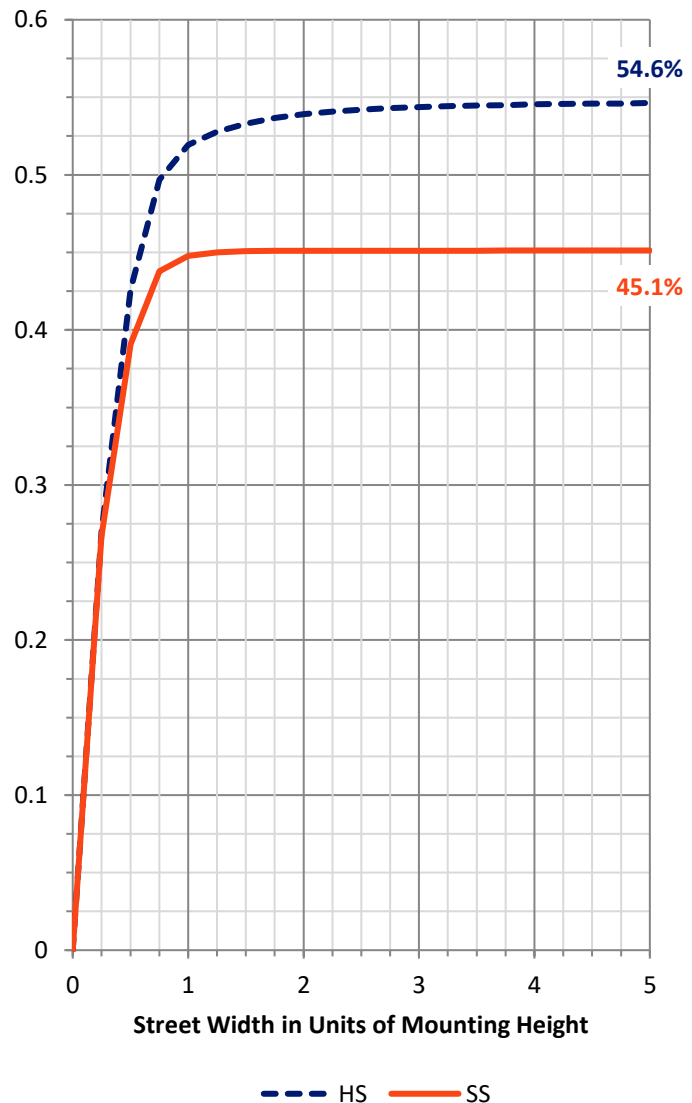
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8901.0	0.0	8901.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	7227.4	0.0	7227.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	16128.5	0.0	16128.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2325.4	14.4
10°-20°	4914.7	30.5
20°-30°	4435.8	27.5
30°-40°	2935.4	18.2
40°-50°	879.3	5.5
50°-60°	352.7	2.2
60°-70°	182.7	1.1
70°-80°	79.3	0.5
80°-90°	23.1	0.1
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°	16128.5	100.0
0°-180°	16128.5	100.0

Coefficient of Utilization



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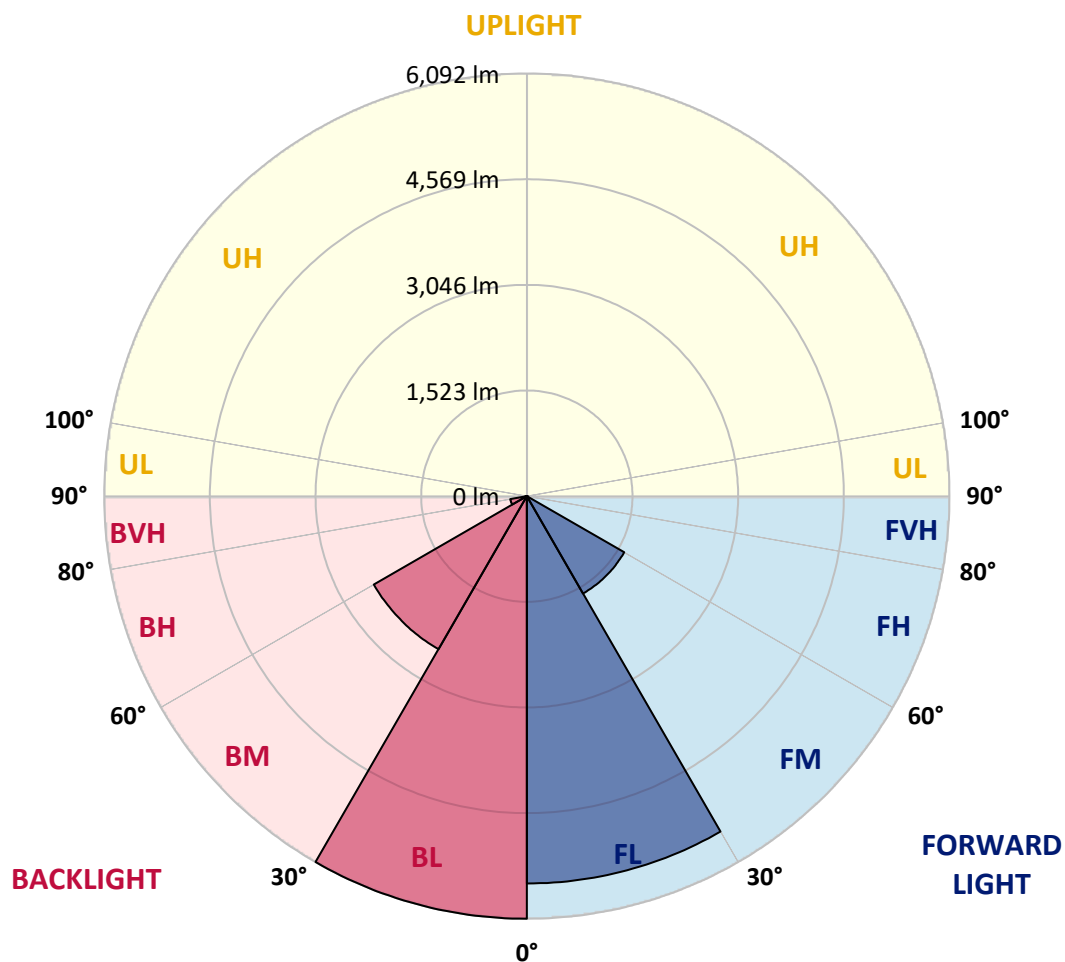
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5583.8	34.6			
FM	(30°-60°)	1620.2	10.0			
FH	(60°-80°)	20.1	0.1			G0/660
FVH	(80°-90°)	3.3	0.0			G0/10
BL	(0°-30°)	6092.1	37.8	B5		
BM	(30°-60°)	2547.3	15.8	B3/5000		
BH	(60°-80°)	241.9	1.5	B1/500		G1/500
BVH	(80°-90°)	19.8	0.1			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°	25926.5	25926.5	25926.5	25926.5	25926.5	25926.5	25926.5	25926.5	25926.5	25926.5
2.5°	25959.5	26005.6	25774.7	25853.9	25886.9	25896.8	25979.3	25966.1	25989.2	25867.1
5°	25616.4	25527.4	25355.8	25359.1	25349.2	25256.9	25444.9	25431.7	25392.1	25247.0
7.5°	24448.7	24577.4	24254.1	24247.5	24240.9	24128.8	24376.2	24224.4	24257.4	24049.6
10°	22740.1	22756.6	22469.6	22443.2	22466.3	22321.2	22608.2	22548.8	22611.5	22393.7
12.5°	20645.5	20737.9	20421.2	20375.0	20467.4	20262.9	20493.8	20523.5	20431.1	20401.4
15°	16192.5	16436.6	17036.9	17953.9	18191.4	18019.9	18204.6	18201.3	18240.9	18016.6
17.5°	12336.5	12359.6	12217.8	12656.5	15196.3	16021.0	16060.6	15747.2	15509.7	15427.2
20°	10769.7	10848.9	10720.2	10756.5	11162.2	13580.1	13672.4	13200.7	12795.0	12762.0
22.5°	9522.9	9572.3	9480.0	9509.7	9529.5	9813.1	11419.5	11003.9	10809.3	10660.9
25°	8467.3	8467.3	8417.9	8427.8	8408.0	7989.0	8813.7	9288.7	9176.5	9123.7
27.5°	7504.2	7517.4	7454.7	7491.0	7250.2	6574.0	6475.0	7876.9	7758.2	7662.5
30°	6590.5	6633.4	6574.0	6593.8	6069.3	5515.1	5231.5	6570.7	6719.1	6692.7
32.5°	4961.0	5155.6	5633.9	5653.7	4941.2	4515.7	4390.3	5274.4	5838.4	5788.9
35°	3074.2	3064.3	3084.1	4034.1	3790.0	3499.7	3545.9	3984.6	4621.2	4598.2
37.5°	2345.3	2342.0	2378.2	2282.6	2483.8	2655.3	2691.6	2691.6	3374.4	3377.7
40°	1777.9	1764.7	1761.4	1609.7	1349.1	1992.3	1932.9	1883.5	2345.3	2394.7
42.5°	1134.7	1174.3	1144.6	979.7	880.7	1088.5	1213.9	1174.3	1448.1	1484.3
45°	633.3	633.3	606.9	514.6	511.3	550.9	692.7	646.5	742.2	791.6
47.5°	306.8	300.2	329.9	405.7	422.2	409.0	494.8	514.6	560.8	606.9
50°	247.4	247.4	234.2	211.1	349.6	336.5	366.1	392.5	418.9	458.5
52.5°	207.8	207.8	191.3	178.1	201.2	257.3	260.6	310.1	306.8	362.8
55°	105.6	108.9	155.0	155.0	135.2	211.1	214.4	250.7	257.3	303.5
57.5°	9.9	13.2	19.8	95.7	105.6	115.4	161.6	184.7	214.4	234.2
60°	3.3	3.3	6.6	13.2	62.7	79.2	102.3	122.0	148.4	194.6
62.5°	0.0	0.0	3.3	6.6	13.2	49.5	56.1	62.7	89.1	122.0
65°	0.0	0.0	3.3	3.3	6.6	16.5	23.1	39.6	56.1	75.9
67.5°	0.0	0.0	3.3	3.3	6.6	9.9	13.2	19.8	26.4	49.5
70°	0.0	0.0	3.3	3.3	6.6	9.9	9.9	13.2	16.5	23.1
72.5°	0.0	0.0	3.3	3.3	6.6	13.2	9.9	9.9	13.2	16.5
75°	0.0	0.0	3.3	3.3	6.6	9.9	9.9	9.9	9.9	9.9
77.5°	0.0	0.0	3.3	3.3	6.6	9.9	9.9	9.9	6.6	6.6
80°	0.0	0.0	3.3	3.3	6.6	9.9	13.2	13.2	6.6	6.6
82.5°	0.0	0.0	3.3	6.6	6.6	16.5	19.8	16.5	6.6	3.3
85°	0.0	0.0	3.3	3.3	9.9	16.5	16.5	9.9	6.6	3.3
87.5°	0.0	0.0	0.0	3.3	3.3	6.6	9.9	9.9	3.3	3.3
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°
25926.5	0°	25926.5	25926.5	25926.5	25926.5	25926.5	25926.5	25926.5	25926.5	25926.5
25768.1	2.5°	25755.0	25956.2	26048.5	25952.9	25906.7	25840.7	25745.1	25679.1	25692.3
25167.8	5°	25111.7	25322.8	25395.4	25313.0	25243.7	25207.4	25190.9	25223.9	25309.7
23960.6	7.5°	23954.0	24089.2	24168.4	24128.8	24033.1	24142.0	24171.7	24151.9	24277.2
22327.8	10°	22334.4	22482.8	22410.2	22426.7	22314.6	22370.7	22354.2	22426.7	22552.1
20378.3	12.5°	20246.4	20388.2	20332.2	20322.3	20203.5	20309.1	20243.1	20322.3	20487.2
17924.2	15°	18052.9	18141.9	18105.7	18049.6	17944.0	17980.3	18184.8	18171.6	18244.2
15377.8	17.5°	15311.8	15740.6	15974.8	16024.3	15938.5	16011.1	16156.2	16119.9	16284.9
12692.8	20°	12669.7	13101.8	13679.0	14147.4	14157.3	14167.2	14259.6	14282.7	14424.5
10664.2	22.5°	10618.0	10924.7	11544.9	12165.0	12593.8	12682.9	12673.0	12706.0	12745.5
9051.2	25°	9028.1	9252.4	9819.7	10248.5	11000.6	11251.3	11323.9	11251.3	11274.4
7629.5	27.5°	7715.3	8058.3	8246.3	8704.8	9440.4	10020.9	9997.9	9955.0	9961.6
6639.9	30°	6636.7	7006.1	7283.2	7421.7	7975.9	8813.7	8899.4	8777.4	8780.7
5765.8	32.5°	5729.6	5845.0	6254.0	6366.2	6722.4	7484.4	7777.9	7685.6	7669.1
4611.4	35°	4746.6	4809.3	4997.3	5218.3	5429.4	6006.6	6491.5	6405.8	6448.6
3390.9	37.5°	3377.7	3635.0	3816.4	3997.8	4149.6	4512.4	5096.2	5017.1	5060.0
2401.3	40°	2381.5	2497.0	2810.4	2889.5	3113.8	3282.0	3776.8	3750.4	3803.2
1490.9	42.5°	1464.5	1547.0	1705.3	1781.2	1932.9	2028.6	2318.9	2351.9	2421.1
824.6	45°	831.2	867.5	976.4	1058.8	1171.0	1210.6	1312.8	1359.0	1398.6
639.9	47.5°	633.3	672.9	745.5	818.0	910.4	943.4	1015.9	1085.2	1121.5
494.8	50°	517.9	554.2	630.0	689.4	781.8	811.4	870.8	946.7	992.9
376.0	52.5°	392.5	445.3	537.7	600.3	696.0	732.3	788.3	864.2	907.1
310.1	55°	323.3	362.8	445.3	531.1	620.1	669.6	705.9	798.2	844.4
254.0	57.5°	277.1	306.8	359.5	461.8	537.7	610.2	639.9	725.7	771.9
201.2	60°	211.1	257.3	303.5	382.6	468.4	544.3	577.2	653.1	689.4
145.1	62.5°	174.8	204.5	263.9	306.8	402.4	481.6	514.6	583.8	610.2
95.7	65°	122.0	164.9	221.0	247.4	336.5	412.3	458.5	511.3	537.7
56.1	67.5°	72.6	122.0	174.8	211.1	273.8	349.6	399.1	448.6	471.7
33.0	70°	46.2	95.7	138.5	178.1	214.4	287.0	346.3	389.2	379.3
19.8	72.5°	26.4	59.4	102.3	145.1	178.1	240.8	296.9	329.9	234.2
13.2	75°	16.5	42.9	85.8	118.7	145.1	191.3	244.1	250.7	145.1
6.6	77.5°	13.2	33.0	66.0	95.7	99.0	141.8	171.5	194.6	108.9
6.6	80°	6.6	26.4	56.1	79.2	62.7	99.0	131.9	151.7	85.8
3.3	82.5°	6.6	16.5	42.9	56.1	46.2	75.9	95.7	108.9	72.6
3.3	85°	3.3	13.2	23.1	33.0	33.0	49.5	42.9	52.8	46.2
3.3	87.5°	3.3	6.6	13.2	16.5	13.2	19.8	23.1	23.1	19.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
25926.5
25870.4
25487.8
24402.6
22601.6
20516.9
18260.7
16258.5
14394.8
12673.0
11238.1
9971.5
8784.0
7708.7
6488.2
5096.2
3823.0
2500.3
1395.3
1138.0
1012.6
936.8
857.6
791.6
696.0
613.5
537.7
468.4
349.6
207.8
135.2
108.9
89.1
79.2
46.2
16.5
0.0

(END OF REPORT)