

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: P636441

Luminaire Tested: **IFLD-L-SA7D-927-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636441
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7D-927-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25554.4 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 422.6
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



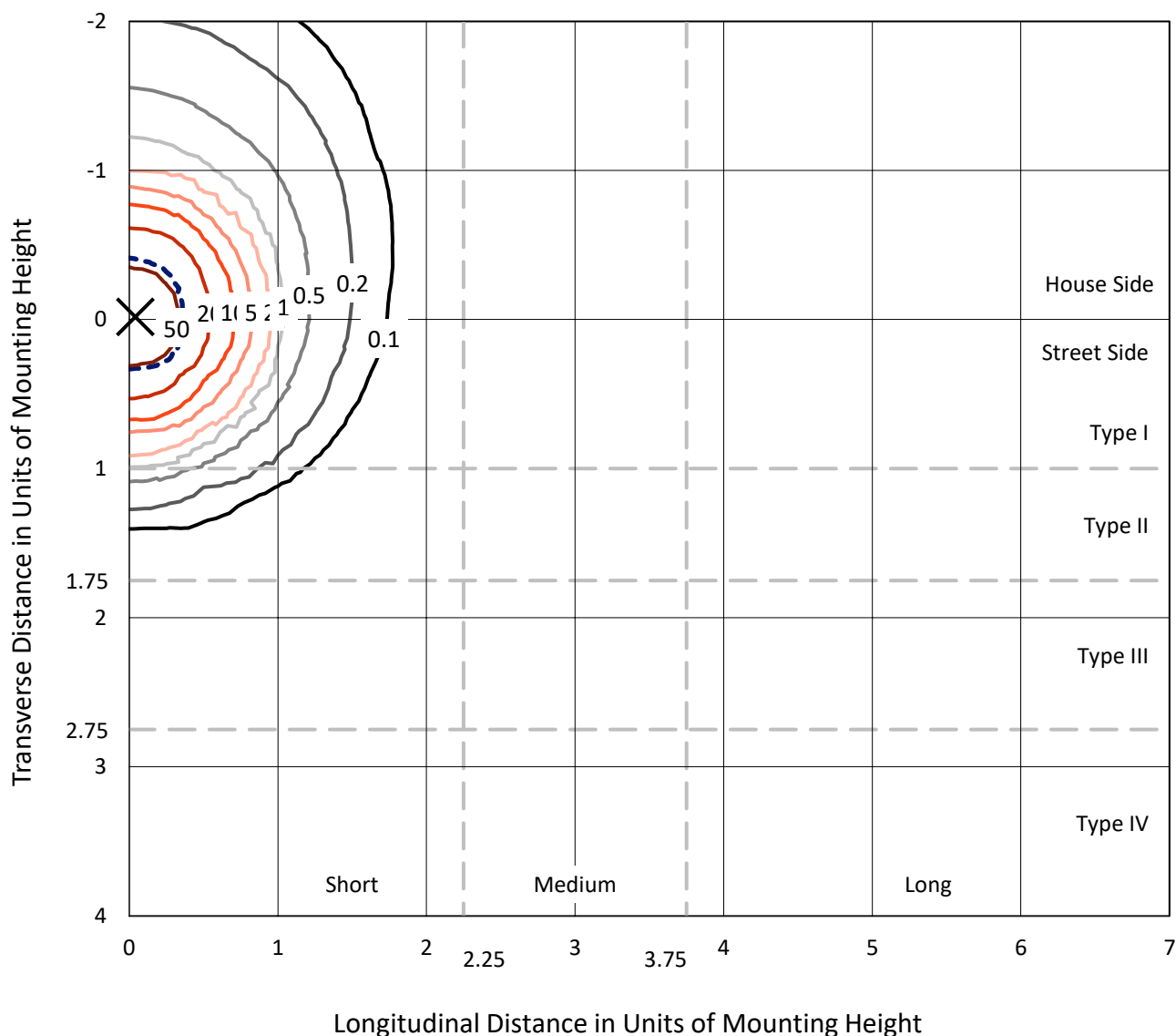
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

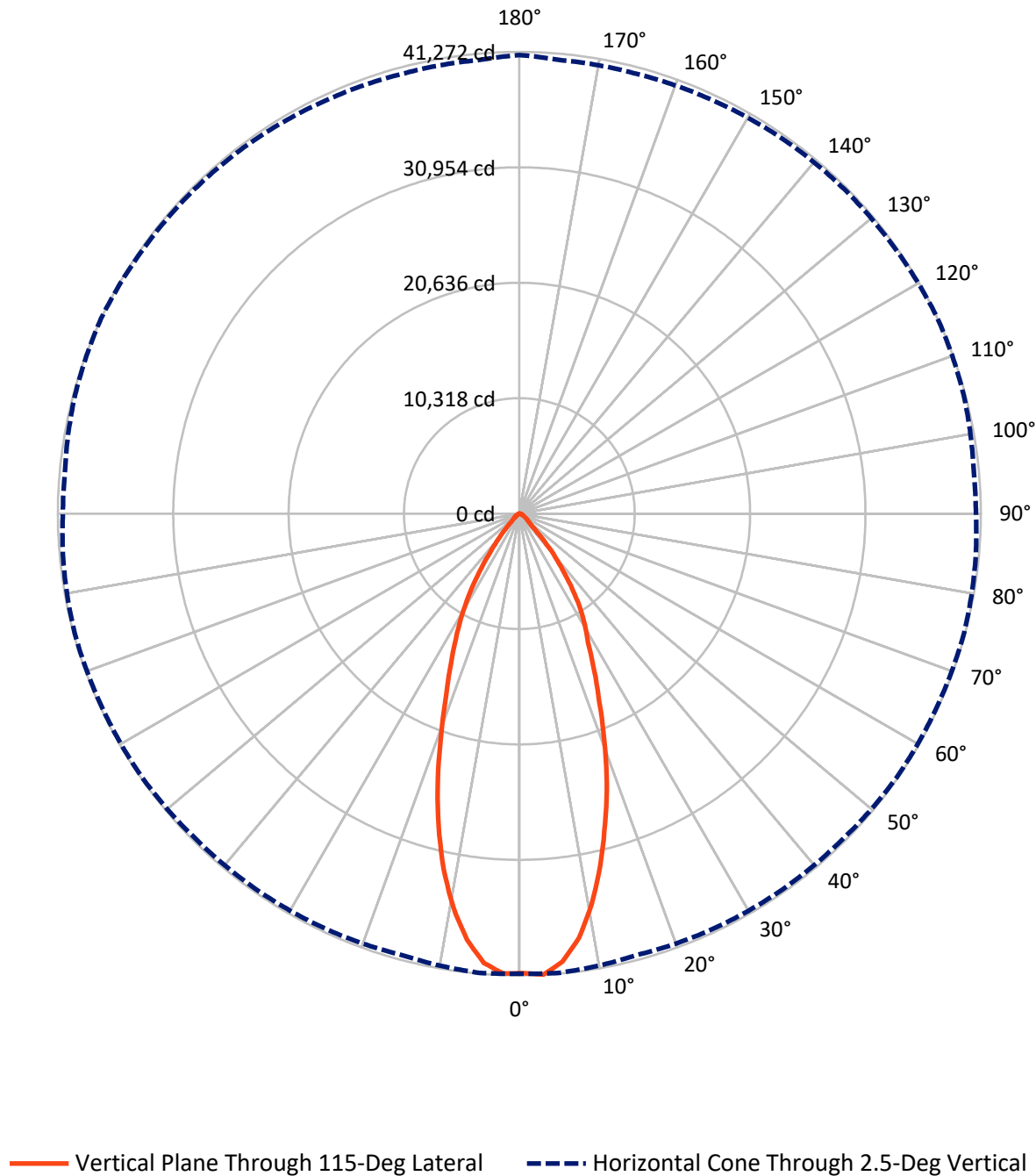


Based on 20 foot mounting height. Maximum calculated value = 102.7 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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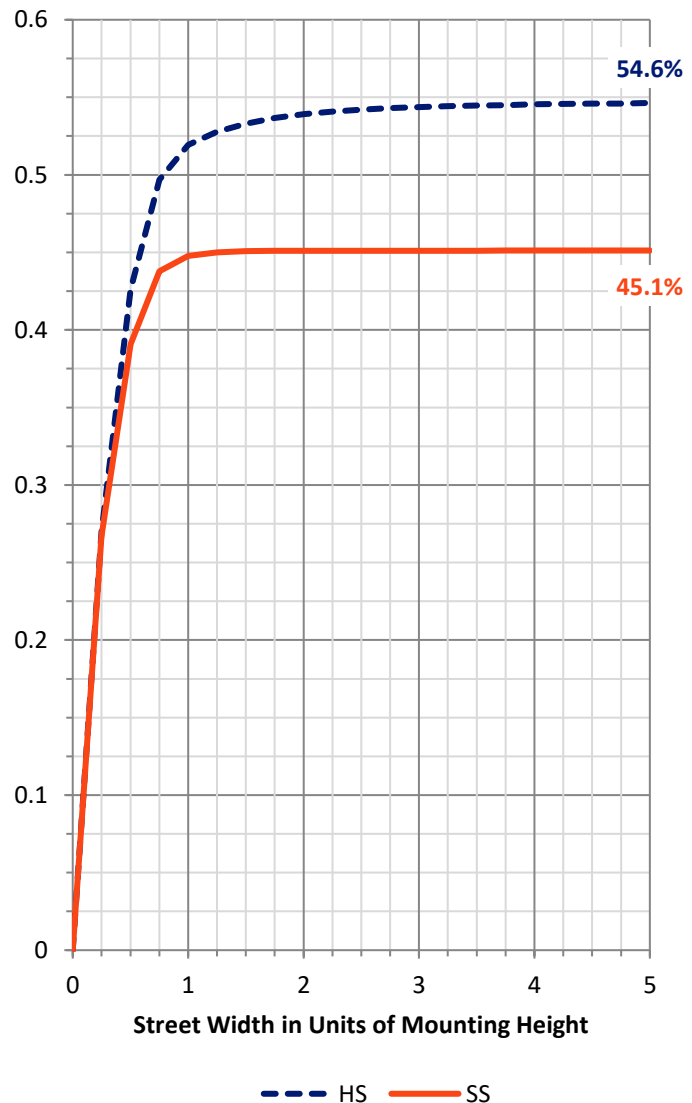
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14103.0	0.0	14103.0
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	11451.4	0.0	11451.4
	% Fixture	44.8	0.0	44.8
Total	Lumens	25554.4	0.0	25554.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3684.4	14.4
10°-20°	7787.0	30.5
20°-30°	7028.2	27.5
30°-40°	4651.0	18.2
40°-50°	1393.2	5.5
50°-60°	558.9	2.2
60°-70°	289.4	1.1
70°-80°	125.6	0.5
80°-90°	36.5	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°	25554.4	100.0
0°-180°	25554.4	100.0

Coefficient of Utilization



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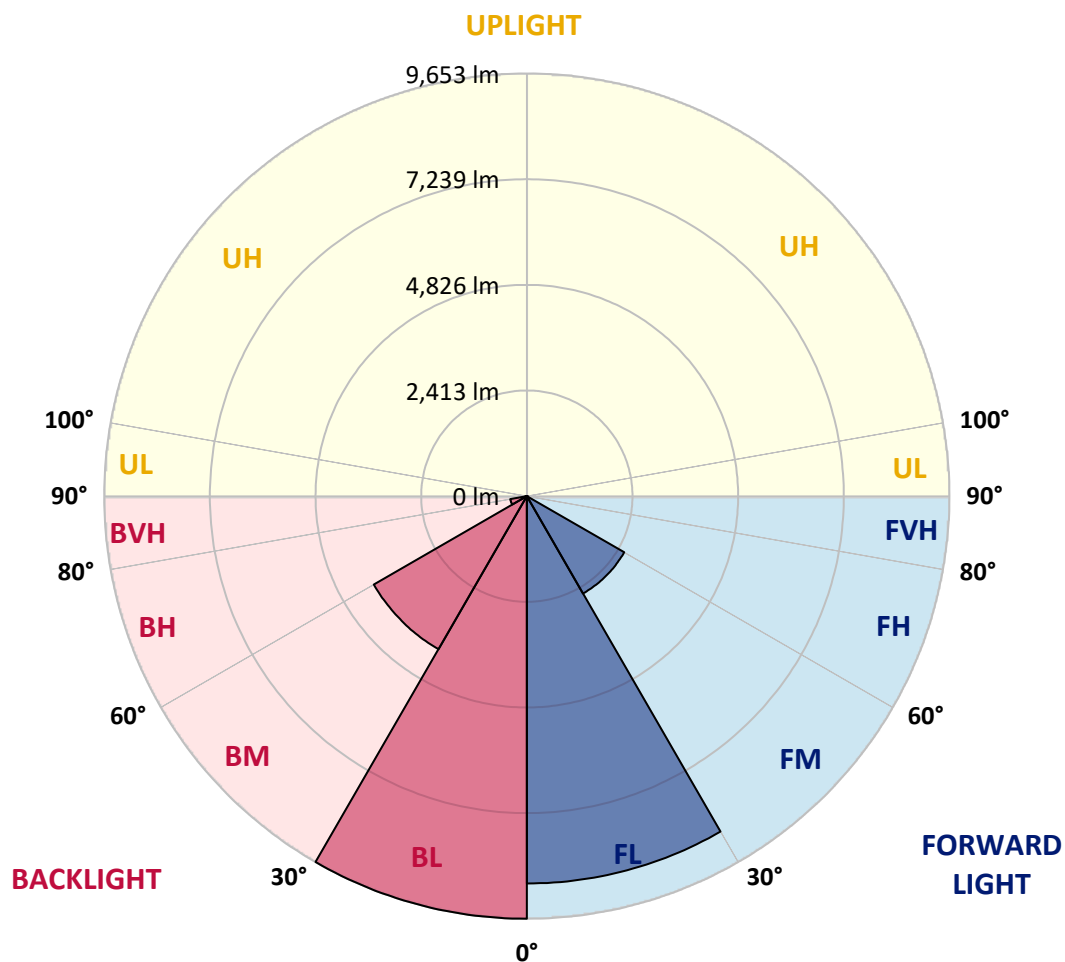
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	8847.1	34.6			
FM	(30°-60°)	2567.2	10.0			
FH	(60°-80°)	31.8	0.1			G0/660
FVH	(80°-90°)	5.3	0.0			G0/10
BL	(0°-30°)	9652.5	37.8	B5		
BM	(30°-60°)	4036.0	15.8	B3/5000		
BH	(60°-80°)	383.3	1.5	B1/500		G1/500
BVH	(80°-90°)	31.3	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°	41078.7	41078.7	41078.7	41078.7	41078.7	41078.7	41078.7	41078.7	41078.7	41078.7
2.5°	41131.0	41204.1	40838.3	40963.7	41016.0	41031.7	41162.3	41141.4	41178.0	40984.6
5°	40587.4	40446.3	40174.5	40179.8	40164.1	40017.8	40315.7	40294.7	40232.0	40002.1
7.5°	38737.3	38941.1	38429.0	38418.5	38408.1	38230.4	38622.3	38381.9	38434.2	38104.9
10°	36030.1	36056.2	35601.5	35559.7	35596.3	35366.3	35821.0	35727.0	35826.3	35481.3
12.5°	32711.4	32857.7	32356.0	32282.8	32429.2	32105.1	32471.0	32518.0	32371.7	32324.6
15°	25655.9	26042.6	26993.8	28446.7	28823.0	28551.3	28843.9	28838.7	28901.4	28546.0
17.5°	19546.3	19582.9	19358.2	20053.3	24077.5	25384.1	25446.8	24950.3	24574.0	24443.4
20°	17063.9	17189.3	16985.5	17043.0	17685.8	21516.7	21663.0	20915.6	20272.8	20220.5
22.5°	15088.3	15166.7	15020.4	15067.4	15098.8	15548.2	18093.4	17434.9	17126.6	16891.4
25°	13415.9	13415.9	13337.5	13353.2	13321.8	12658.1	13964.7	14717.3	14539.6	14455.9
27.5°	11889.8	11910.7	11811.4	11868.9	11487.4	10416.0	10259.2	12480.4	12292.2	12140.7
30°	10442.1	10510.1	10416.0	10447.4	9616.4	8738.4	8288.9	10410.8	10646.0	10604.2
32.5°	7860.3	8168.7	8926.5	8957.9	7829.0	7154.8	6956.2	8356.8	9250.5	9172.2
35°	4870.9	4855.2	4886.6	6391.8	6005.0	5545.1	5618.3	6313.4	7322.0	7285.5
37.5°	3715.9	3710.7	3768.2	3616.6	3935.4	4207.2	4264.7	4264.7	5346.5	5351.7
40°	2817.0	2796.1	2790.8	2550.4	2137.6	3156.7	3062.6	2984.2	3715.9	3794.3
42.5°	1797.8	1860.6	1813.5	1552.2	1395.4	1724.7	1923.3	1860.6	2294.3	2351.8
45°	1003.4	1003.4	961.6	815.3	810.1	872.8	1097.5	1024.4	1175.9	1254.3
47.5°	486.0	475.6	522.6	642.8	669.0	648.1	783.9	815.3	888.5	961.6
50°	392.0	392.0	371.1	334.5	554.0	533.1	580.1	621.9	663.7	726.5
52.5°	329.3	329.3	303.1	282.2	318.8	407.7	412.9	491.3	486.0	574.9
55°	167.2	172.5	245.6	245.6	214.3	334.5	339.7	397.2	407.7	480.8
57.5°	15.7	20.9	31.4	151.6	167.2	182.9	256.1	292.7	339.7	371.1
60°	5.2	5.2	10.5	20.9	99.3	125.4	162.0	193.4	235.2	308.4
62.5°	0.0	0.0	5.2	10.5	20.9	78.4	88.8	99.3	141.1	193.4
65°	0.0	0.0	5.2	5.2	10.5	26.1	36.6	62.7	88.8	120.2
67.5°	0.0	0.0	5.2	5.2	10.5	15.7	20.9	31.4	41.8	78.4
70°	0.0	0.0	5.2	5.2	10.5	15.7	15.7	20.9	26.1	36.6
72.5°	0.0	0.0	5.2	5.2	10.5	20.9	15.7	15.7	20.9	26.1
75°	0.0	0.0	5.2	5.2	10.5	15.7	15.7	15.7	15.7	15.7
77.5°	0.0	0.0	5.2	5.2	10.5	15.7	15.7	15.7	10.5	10.5
80°	0.0	0.0	5.2	5.2	10.5	15.7	20.9	20.9	10.5	10.5
82.5°	0.0	0.0	5.2	10.5	10.5	26.1	31.4	26.1	10.5	5.2
85°	0.0	0.0	5.2	5.2	15.7	26.1	26.1	15.7	10.5	5.2
87.5°	0.0	0.0	0.0	5.2	5.2	10.5	15.7	15.7	5.2	5.2
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°
41078.7	0°	41078.7	41078.7	41078.7	41078.7	41078.7	41078.7	41078.7	41078.7	41078.7
40827.8	2.5°	40806.9	41125.7	41272.1	41120.5	41047.3	40942.8	40791.2	40686.7	40707.6
39876.6	5°	39787.8	40122.3	40237.3	40106.6	39996.8	39939.4	39913.2	39965.5	40101.4
37963.8	7.5°	37953.4	38167.6	38293.1	38230.4	38078.8	38251.3	38298.3	38266.9	38465.5
35376.8	10°	35387.3	35622.4	35507.5	35533.6	35355.9	35444.7	35418.6	35533.6	35732.2
32288.1	12.5°	32079.0	32303.7	32214.9	32199.2	32011.1	32178.3	32073.8	32199.2	32460.5
28399.7	15°	28603.5	28744.6	28687.1	28598.3	28431.1	28488.5	28812.6	28791.7	28906.6
24365.0	17.5°	24260.5	24939.9	25311.0	25389.3	25253.5	25368.4	25598.4	25540.9	25802.2
20110.8	20°	20074.2	20758.8	21673.5	22415.6	22431.3	22446.9	22593.3	22629.9	22854.6
16896.6	22.5°	16823.4	17309.5	18292.0	19274.6	19954.0	20095.1	20079.4	20131.7	20194.4
14341.0	25°	14304.4	14659.8	15558.7	16238.1	17429.7	17826.9	17941.9	17826.9	17863.5
12088.4	27.5°	12224.3	12767.8	13065.7	13792.2	14957.7	15877.5	15840.9	15773.0	15783.4
10520.5	30°	10515.3	11100.7	11539.7	11759.2	12637.2	13964.7	14100.5	13907.2	13912.4
9135.6	32.5°	9078.1	9261.0	9909.1	10086.8	10651.2	11858.5	12323.6	12177.3	12151.1
7306.4	35°	7520.6	7619.9	7917.8	8268.0	8602.5	9517.1	10285.4	10149.5	10217.4
5372.6	37.5°	5351.7	5759.4	6046.8	6334.3	6574.7	7149.6	8074.6	7949.2	8017.1
3804.7	40°	3773.4	3956.3	4452.8	4578.2	4933.6	5200.2	5984.1	5942.3	6025.9
2362.3	42.5°	2320.5	2451.1	2702.0	2822.2	3062.6	3214.2	3674.1	3726.3	3836.1
1306.6	45°	1317.0	1374.5	1547.0	1677.6	1855.3	1918.1	2080.1	2153.2	2215.9
1013.9	47.5°	1003.4	1066.2	1181.1	1296.1	1442.5	1494.7	1609.7	1719.5	1776.9
783.9	50°	820.5	878.0	998.2	1092.3	1238.6	1285.7	1379.7	1499.9	1573.1
595.8	52.5°	621.9	705.6	851.9	951.2	1102.7	1160.2	1249.1	1369.3	1437.2
491.3	55°	512.2	574.9	705.6	841.4	982.5	1060.9	1118.4	1264.8	1337.9
402.4	57.5°	439.0	486.0	569.7	731.7	851.9	966.9	1013.9	1149.8	1223.0
318.8	60°	334.5	407.7	480.8	606.3	742.1	862.3	914.6	1034.8	1092.3
230.0	62.5°	277.0	324.0	418.1	486.0	637.6	763.0	815.3	925.1	966.9
151.6	65°	193.4	261.3	350.2	392.0	533.1	653.3	726.5	810.1	851.9
88.8	67.5°	115.0	193.4	277.0	334.5	433.8	554.0	632.4	710.8	747.4
52.3	70°	73.2	151.6	219.5	282.2	339.7	454.7	548.8	616.7	601.0
31.4	72.5°	41.8	94.1	162.0	230.0	282.2	381.5	470.4	522.6	371.1
20.9	75°	26.1	67.9	135.9	188.1	230.0	303.1	386.7	397.2	230.0
10.5	77.5°	20.9	52.3	104.5	151.6	156.8	224.7	271.8	308.4	172.5
10.5	80°	10.5	41.8	88.8	125.4	99.3	156.8	209.1	240.4	135.9
5.2	82.5°	10.5	26.1	67.9	88.8	73.2	120.2	151.6	172.5	115.0
5.2	85°	5.2	20.9	36.6	52.3	52.3	78.4	67.9	83.6	73.2
5.2	87.5°	5.2	10.5	20.9	26.1	20.9	31.4	36.6	36.6	31.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
41078.7
40989.8
40383.6
38664.1
35810.6
32507.6
28932.8
25760.4
22807.6
20079.4
17806.0
15799.1
13917.6
12213.9
10280.1
8074.6
6057.3
3961.5
2210.7
1803.1
1604.5
1484.3
1358.8
1254.3
1102.7
972.1
851.9
742.1
554.0
329.3
214.3
172.5
141.1
125.4
73.2
26.1
0.0

(END OF REPORT)