

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: P637765

Luminaire Tested: **IFLD-S-SA6D-830-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637765
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6D-830-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34126.8 lumens
Efficiency: N/A
Efficacy: 92.7 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): 368.2
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



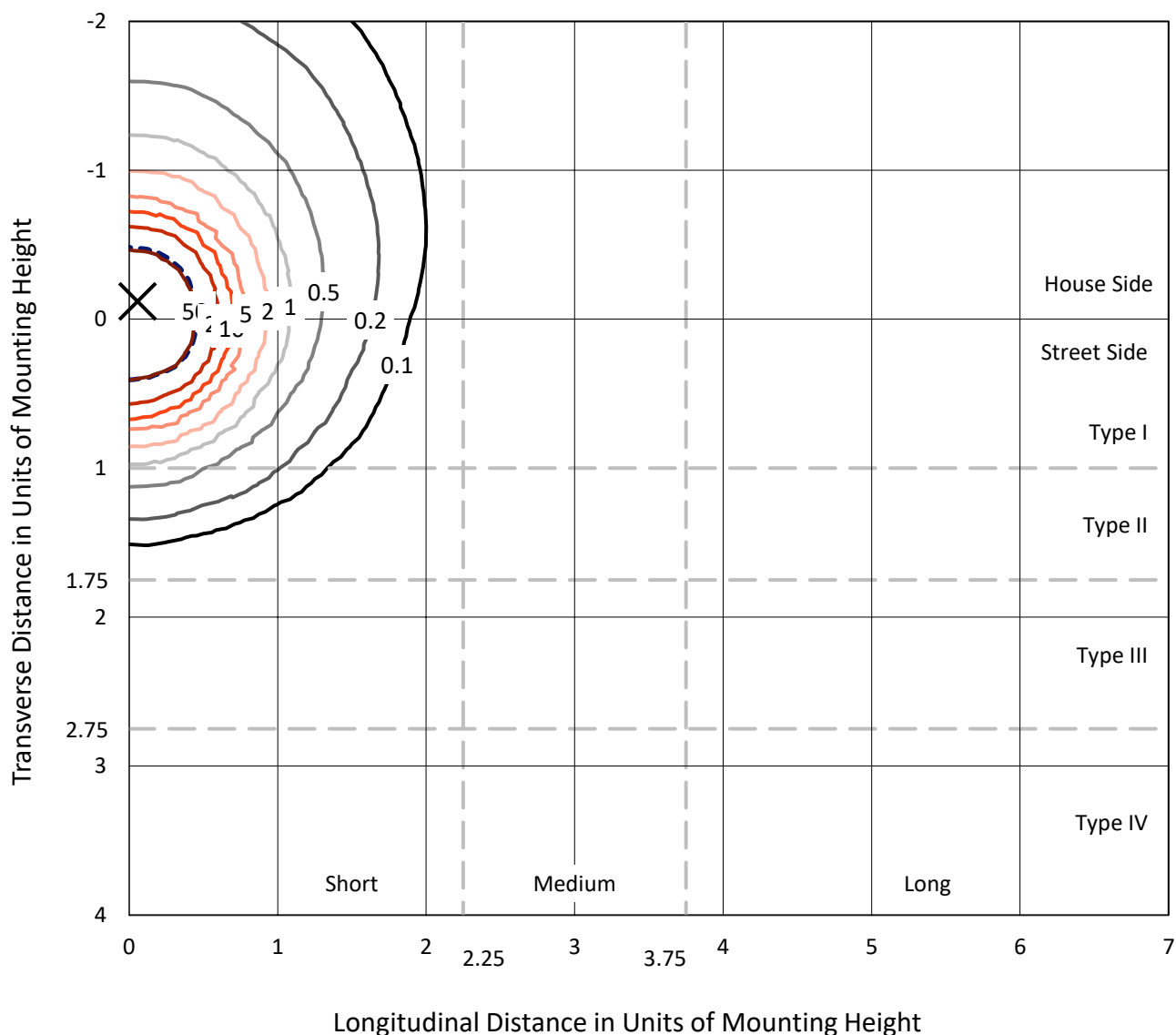
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

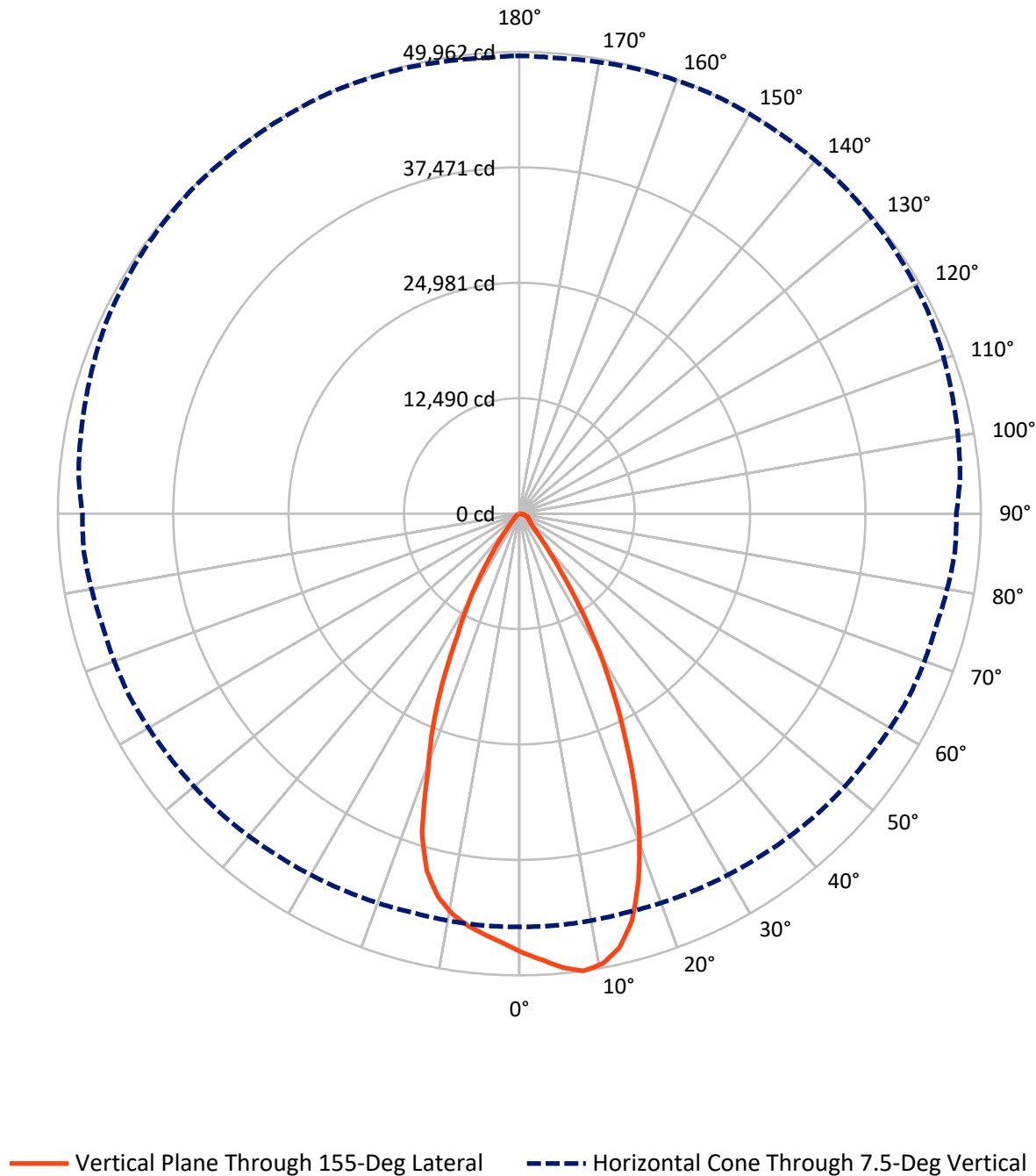


Based on 20 foot mounting height. Maximum calculated value = 120.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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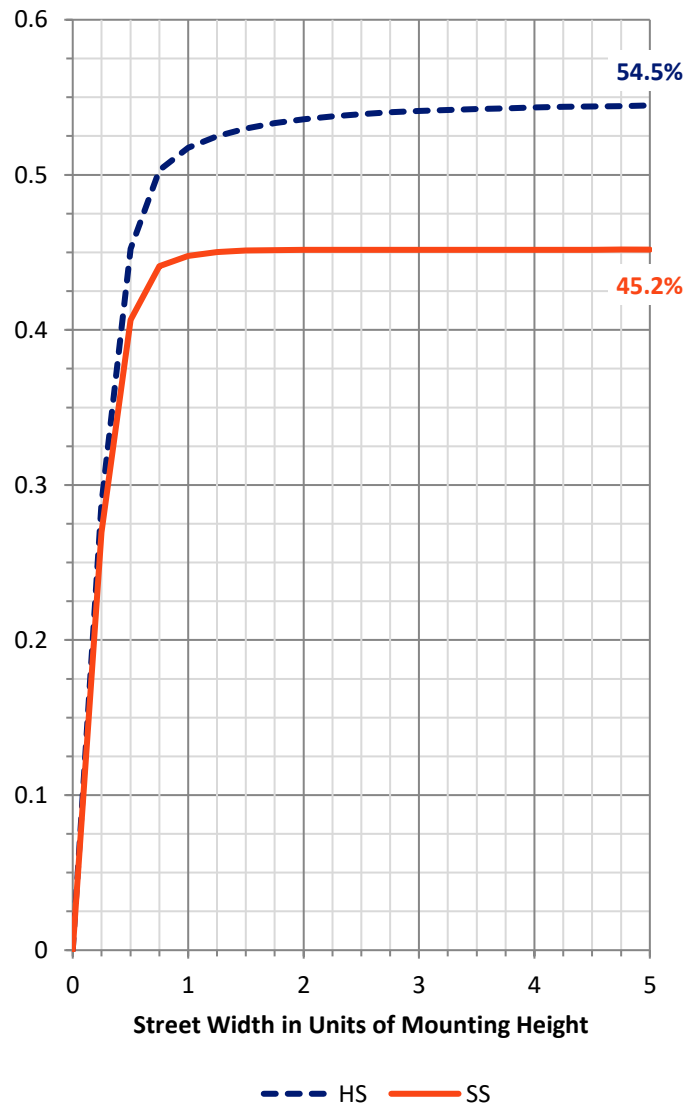
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	18839.3	0.0	18839.3
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	15287.6	0.0	15287.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	34126.8	0.0	34126.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4533.4	13.3
10°-20°	11755.1	34.4
20°-30°	10770.9	31.6
30°-40°	4351.4	12.8
40°-50°	1276.5	3.7
50°-60°	713.7	2.1
60°-70°	433.5	1.3
70°-80°	220.3	0.6
80°-90°	72.0	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°	34126.8	100.0
0°-180°	34126.8	100.0

Coefficient of Utilization



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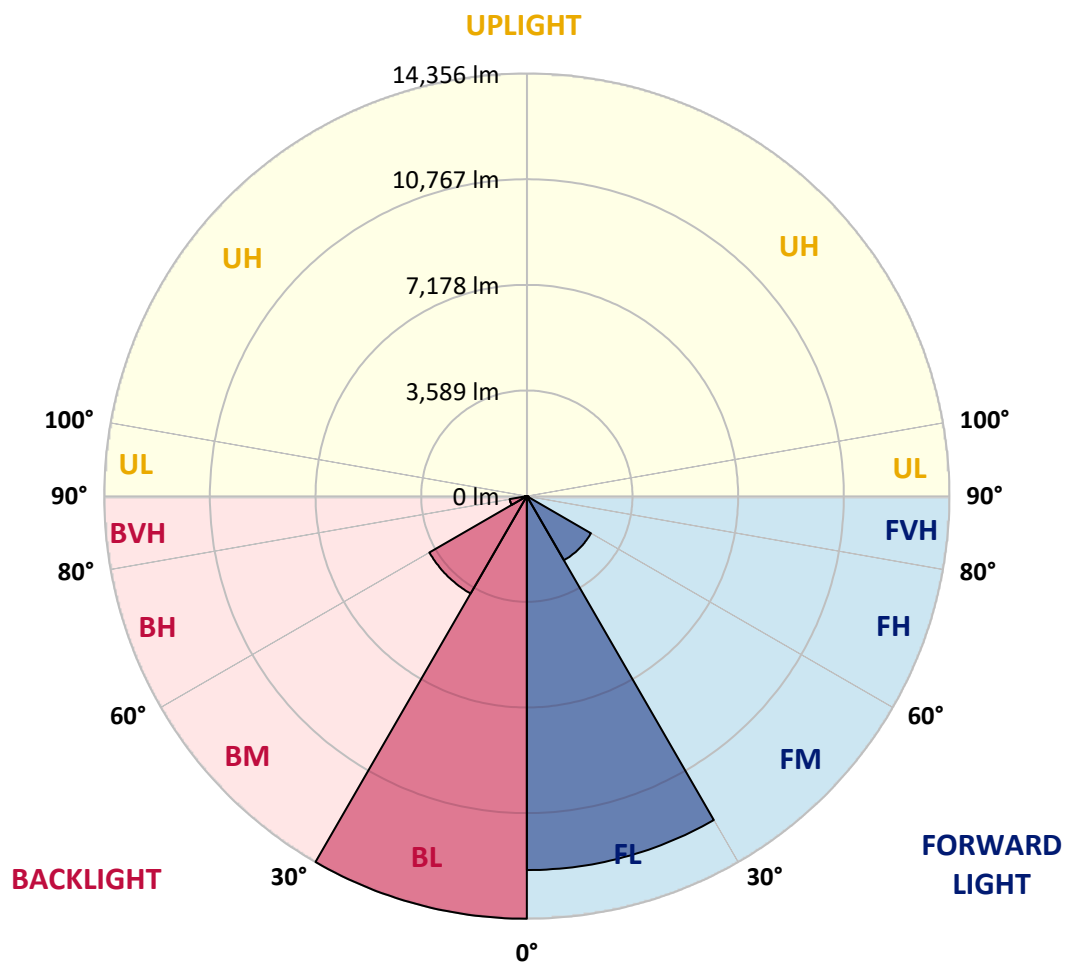
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	12702.9	37.2			
FM	(30°-60°)	2517.5	7.4			
FH	(60°-80°)	61.0	0.2			G0/660
FVH	(80°-90°)	6.2	0.0			G0/10
BL	(0°-30°)	14356.5	42.1	B5		
BM	(30°-60°)	3824.2	11.2	B3/5000		
BH	(60°-80°)	592.8	1.7	B2/1000		G2/1000
BVH	(80°-90°)	65.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	47541.3	47541.3	47541.3	47541.3	47541.3	47541.3	47541.3	47541.3	47541.3	47541.3
2.5°	46510.3	46667.7	46352.9	46561.4	46722.8	47108.4	47139.9	47273.7	47320.9	47671.2
5°	45628.8	45750.8	45495.0	45774.4	46002.6	46345.0	46608.7	46978.6	47183.2	47596.4
7.5°	44711.9	44739.4	44688.3	44983.4	45325.8	45798.0	46124.6	46608.7	46734.6	47324.9
10°	43602.2	43401.5	43499.8	43932.7	44444.3	45168.4	45392.7	45876.7	46101.0	46703.1
12.5°	41831.3	41933.6	41811.6	42362.6	42787.6	43610.0	43846.1	44334.1	44763.0	45294.3
15°	39336.4	39277.4	39525.3	39954.2	40414.6	41067.9	41449.6	41980.8	42307.5	42858.4
17.5°	33728.7	33929.4	34952.6	36026.9	36971.3	37734.7	38191.2	38632.0	38868.1	39466.2
20°	29128.4	28876.6	29014.3	29620.3	32308.1	33476.8	33956.9	34063.2	34161.6	34633.8
22.5°	23985.1	23902.5	24362.9	25043.7	25681.2	28376.8	29030.1	28782.1	28986.8	29431.5
25°	17810.8	18227.9	18637.2	19943.7	20770.0	22092.3	23331.9	23442.1	23516.8	23796.2
27.5°	14497.3	14351.7	14343.8	14709.8	15929.7	17031.6	18086.2	18330.2	18286.9	18554.5
30°	11396.4	11349.2	11183.9	11270.4	11148.5	12128.3	12624.2	13627.6	13572.5	13580.4
32.5°	8220.7	8043.6	7976.7	8106.5	7980.6	7890.1	8323.0	9456.3	9436.6	9515.3
35°	4974.1	4950.5	5005.6	5119.7	4867.9	4860.0	4950.5	6016.9	6146.8	6272.7
37.5°	2746.8	2723.2	2766.5	3187.5	3104.9	3030.1	3053.7	3616.5	3990.3	4084.8
40°	1810.2	1806.3	1837.7	1912.5	2054.2	2026.6	2038.4	2290.3	2644.5	2727.1
42.5°	1212.0	1216.0	1235.7	1322.2	1341.9	1483.6	1460.0	1519.0	1849.5	1920.4
45°	968.1	964.1	975.9	936.6	960.2	1105.8	1121.5	1125.5	1408.8	1452.1
47.5°	763.4	763.4	775.2	724.1	712.3	802.8	885.4	897.2	1125.5	1184.5
50°	535.2	535.2	594.2	570.6	598.2	625.7	716.2	728.0	920.8	983.8
52.5°	393.5	401.4	409.3	413.2	503.7	499.8	578.5	633.6	696.5	806.7
55°	299.1	306.9	287.3	306.9	373.8	417.1	432.9	511.6	554.9	676.9
57.5°	196.8	216.4	200.7	236.1	251.9	322.7	346.3	421.1	448.6	554.9
60°	27.5	31.5	51.2	165.3	177.1	212.5	267.6	334.5	362.0	452.5
62.5°	3.9	3.9	11.8	27.5	118.1	141.7	200.7	232.2	267.6	338.4
65°	0.0	0.0	3.9	7.9	23.6	82.6	102.3	125.9	185.0	244.0
67.5°	0.0	0.0	3.9	7.9	11.8	27.5	43.3	82.6	106.3	169.2
70°	0.0	0.0	3.9	7.9	11.8	15.7	23.6	31.5	63.0	98.4
72.5°	0.0	0.0	3.9	7.9	11.8	15.7	19.7	23.6	27.5	63.0
75°	0.0	0.0	3.9	7.9	11.8	19.7	23.6	23.6	23.6	27.5
77.5°	0.0	0.0	3.9	7.9	15.7	23.6	27.5	23.6	19.7	19.7
80°	0.0	0.0	3.9	11.8	19.7	27.5	31.5	23.6	15.7	11.8
82.5°	0.0	0.0	3.9	11.8	19.7	27.5	31.5	27.5	15.7	11.8
85°	0.0	0.0	3.9	11.8	15.7	19.7	31.5	27.5	15.7	7.9
87.5°	0.0	0.0	0.0	3.9	3.9	7.9	15.7	11.8	7.9	3.9
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°
47541.3	0°	47541.3	47541.3	47541.3	47541.3	47541.3	47541.3	47541.3	47541.3	47541.3
47663.3	2.5°	48017.5	48194.5	48505.4	48592.0	48859.6	48552.6	48383.4	48399.2	48033.2
47545.2	5°	48017.5	48422.8	48965.8	49225.6	49422.3	49406.6	49363.3	49253.1	48985.5
47309.1	7.5°	47891.5	48552.6	49300.3	49646.6	49882.7	49863.1	49961.5	49784.4	49457.7
46888.1	10°	47486.2	48060.7	48981.6	49264.9	49646.6	49654.5	49532.5	49567.9	48985.5
45349.4	12.5°	46211.2	46659.8	47466.5	47789.2	48253.6	48328.3	48194.5	48143.4	47592.5
42826.9	15°	43743.8	44003.5	44814.2	45136.9	45597.3	45534.3	45668.1	45613.0	45129.0
39419.0	17.5°	40135.2	40217.9	41067.9	41339.4	41772.3	41941.5	41740.8	41996.6	41579.5
34716.4	20°	34960.4	35405.1	36361.4	36778.5	37030.3	37333.4	37069.7	37357.0	36869.0
29010.4	22.5°	29710.9	29974.5	30840.3	31442.3	31910.6	31969.7	31871.3	32072.0	31414.8
23981.2	25°	23977.2	24414.1	25098.8	25885.8	26346.2	26629.6	26373.8	26503.7	26397.4
18597.8	27.5°	18912.6	19302.2	19817.7	20404.1	21096.7	21466.6	21262.0	21482.3	20962.9
13867.7	30°	13879.5	14076.3	14658.7	15280.4	16039.9	16488.5	16508.2	16732.5	16425.6
9716.0	32.5°	9786.9	9960.0	10318.1	10731.3	11455.4	11955.2	11876.5	11908.0	11719.1
6331.8	35°	6363.2	6595.4	6851.2	7048.0	7484.8	8035.7	7992.4	7953.1	7823.2
4163.5	37.5°	4254.0	4344.5	4486.1	4663.2	4946.6	5292.9	5407.0	5265.3	5210.2
2809.7	40°	2876.6	3034.0	3128.5	3262.3	3396.1	3687.3	3766.0	3738.5	3683.4
1967.6	42.5°	2042.4	2164.4	2282.4	2412.3	2483.1	2664.1	2817.6	2774.3	2750.7
1495.4	45°	1550.5	1660.7	1798.4	1896.8	1967.6	2073.9	2219.5	2235.2	2199.8
1200.2	47.5°	1243.5	1341.9	1452.1	1574.1	1656.7	1723.6	1849.5	1896.8	1873.2
1011.3	50°	1054.6	1129.4	1235.7	1357.6	1448.2	1507.2	1617.4	1668.5	1652.8
846.1	52.5°	897.2	987.7	1086.1	1188.4	1298.6	1357.6	1460.0	1534.7	1522.9
700.5	55°	743.8	861.8	964.1	1066.4	1192.4	1251.4	1341.9	1440.3	1420.6
594.2	57.5°	649.3	747.7	853.9	952.3	1086.1	1164.8	1247.5	1349.8	1345.8
488.0	60°	543.1	641.4	759.5	842.1	983.8	1094.0	1168.8	1275.0	1282.9
369.9	62.5°	432.9	554.9	645.4	759.5	889.4	1019.2	1090.1	1196.3	1235.7
283.3	65°	322.7	456.5	558.8	672.9	794.9	940.5	1003.5	1109.7	1149.1
204.6	67.5°	240.0	342.4	472.2	570.6	708.3	834.3	909.0	1007.4	1035.0
122.0	70°	181.0	263.7	393.5	480.1	621.8	724.1	798.8	873.6	909.0
82.6	72.5°	106.3	196.8	310.9	413.2	535.2	621.8	676.9	735.9	759.5
39.4	75°	74.8	149.5	244.0	342.4	432.9	503.7	554.9	606.0	629.6
19.7	77.5°	39.4	110.2	192.8	275.5	338.4	397.5	448.6	488.0	503.7
15.7	80°	23.6	78.7	157.4	216.4	259.7	310.9	362.0	389.6	385.7
11.8	82.5°	15.7	63.0	114.1	157.4	188.9	228.2	263.7	283.3	283.3
7.9	85°	11.8	43.3	78.7	122.0	125.9	157.4	165.3	185.0	188.9
7.9	87.5°	7.9	27.5	43.3	70.8	66.9	82.6	86.6	98.4	106.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
47541.3
47738.1
49072.1
49532.5
48816.3
47466.5
45282.5
41477.1
36829.7
31324.3
26330.5
21096.7
16480.7
11825.3
7709.1
5198.4
3691.2
2731.0
2195.8
1861.4
1648.9
1515.1
1420.6
1341.9
1282.9
1231.7
1145.1
1035.0
901.2
751.6
621.8
499.8
381.7
279.4
185.0
102.3
0.0

(END OF REPORT)