

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: P637597

Luminaire Tested: **IFLD-M-SA4E-730-U-55-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637597
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4E-730-U-55-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 5 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30968.1 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 314.8
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



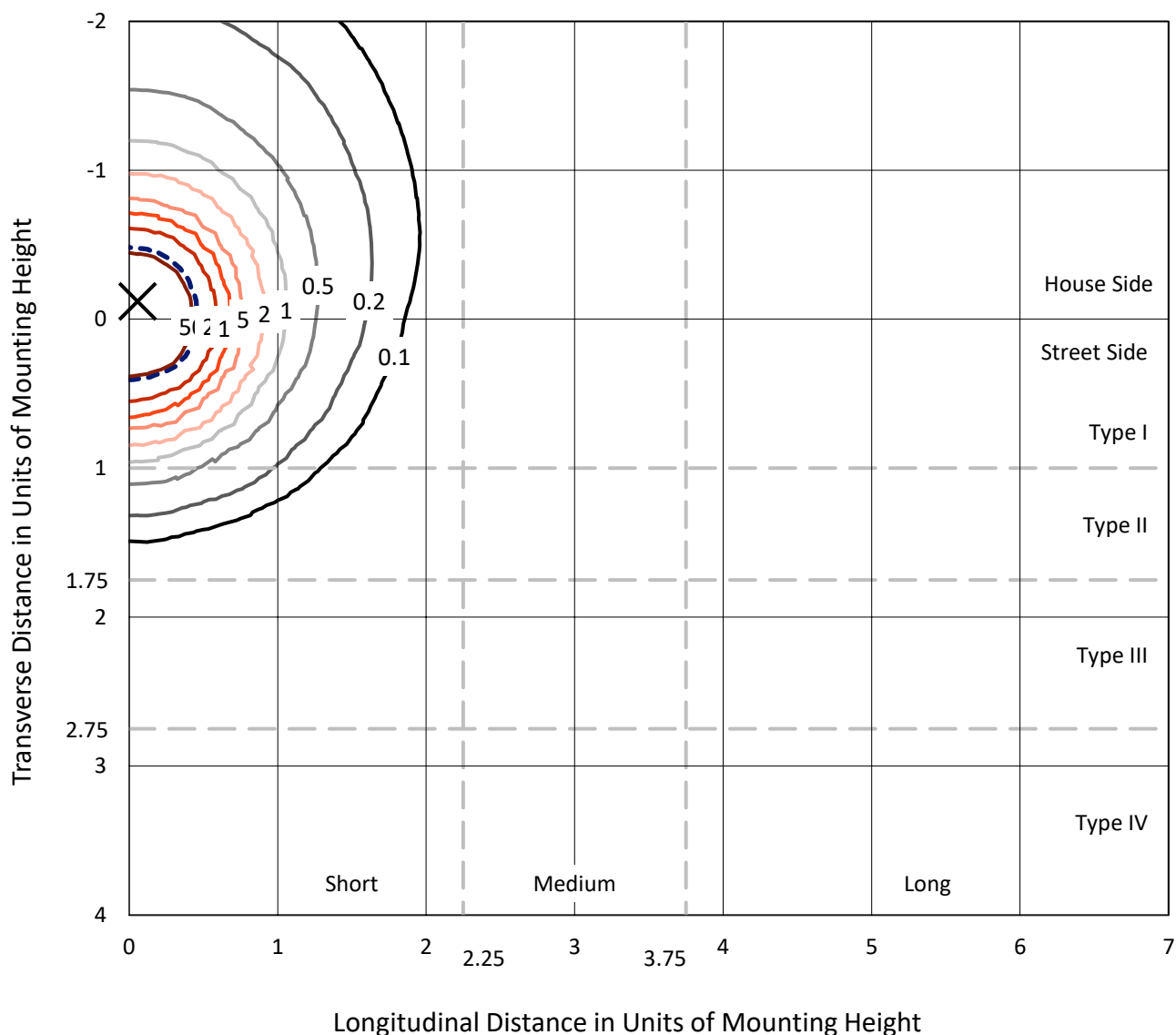
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

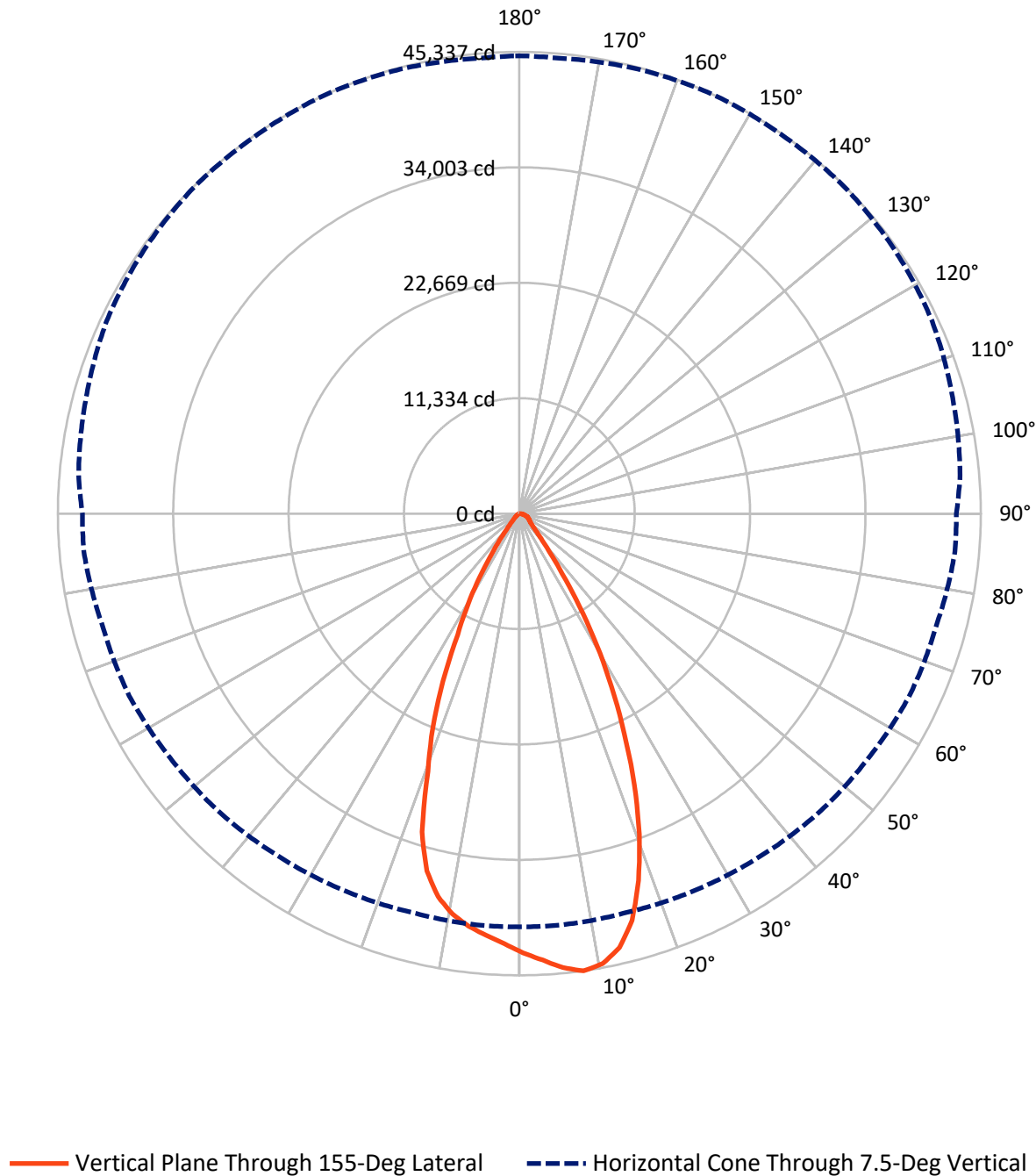


Based on 20 foot mounting height. Maximum calculated value = 109.6 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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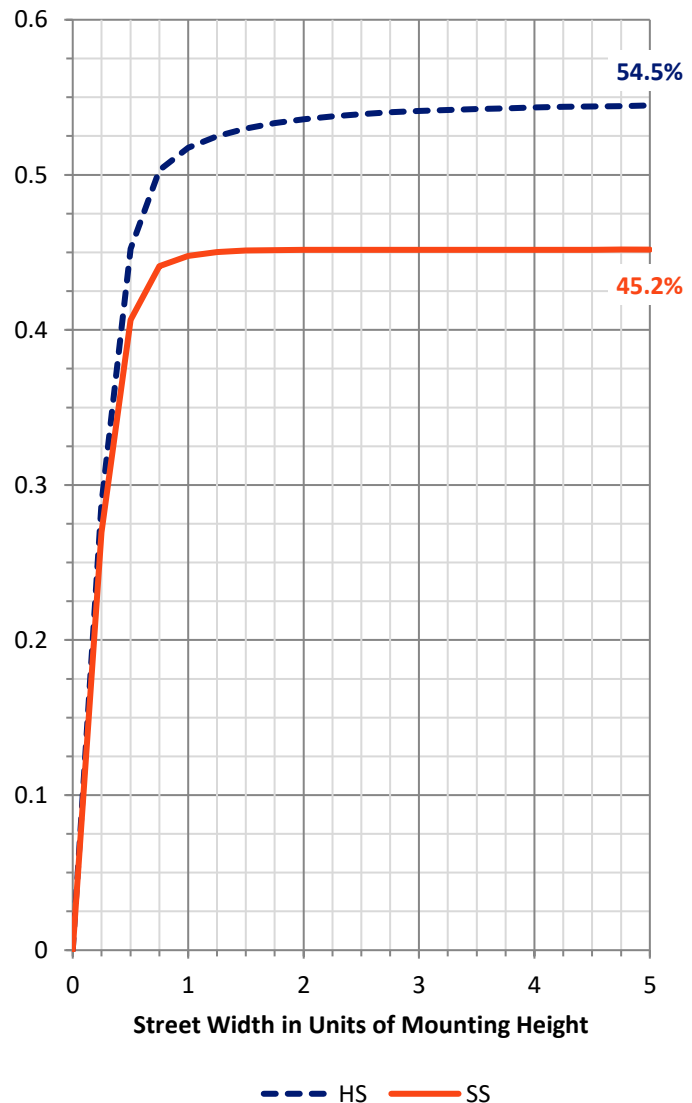
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17095.5	0.0	17095.5
	% Fixture	55.2	0.0	55.2
Street Side	Lumens	13872.6	0.0	13872.6
	% Fixture	44.8	0.0	44.8
Total	Lumens	30968.1	0.0	30968.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4113.8	13.3
10°-20°	10667.0	34.4
20°-30°	9774.0	31.6
30°-40°	3948.7	12.8
40°-50°	1158.4	3.7
50°-60°	647.7	2.1
60°-70°	393.4	1.3
70°-80°	199.9	0.6
80°-90°	65.4	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°	30968.1	100.0
0°-180°	30968.1	100.0

Coefficient of Utilization



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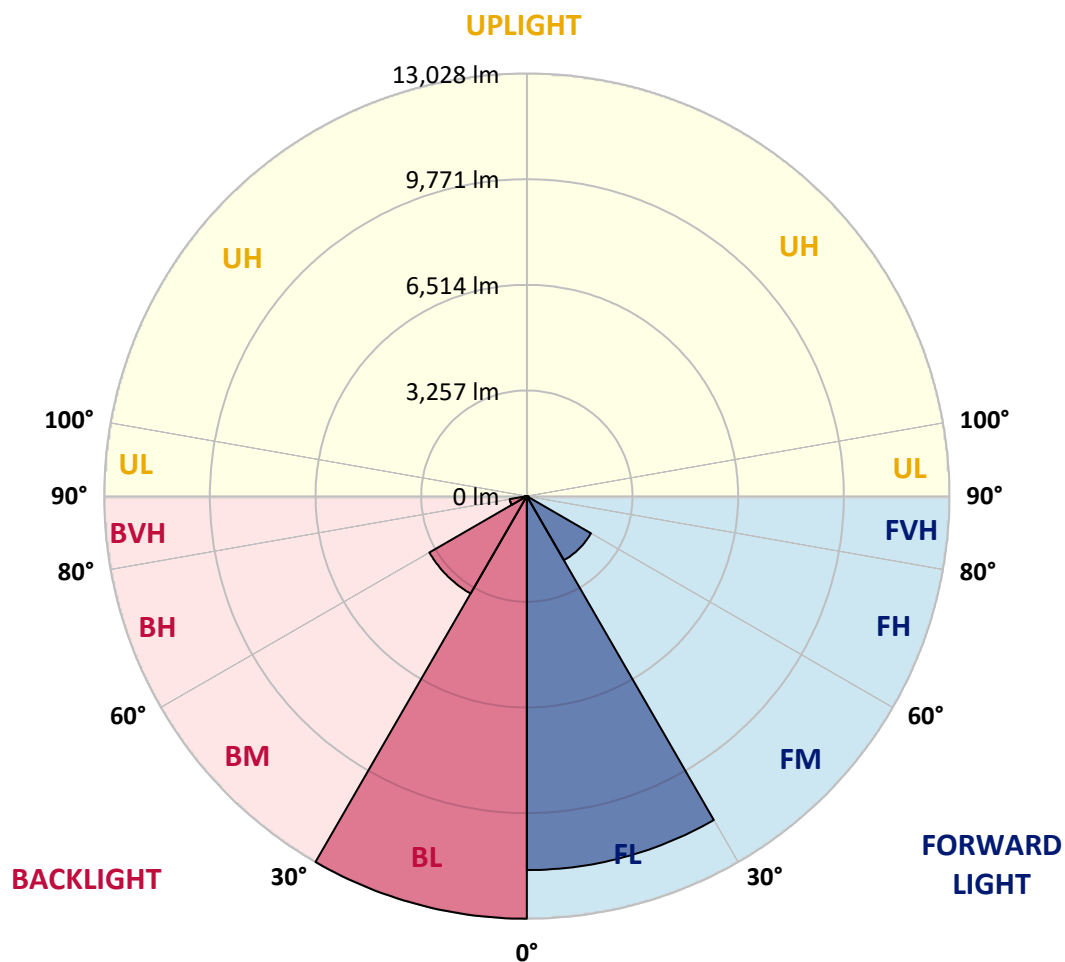
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	11527.1	37.2			
FM	(30°-60°)	2284.5	7.4			
FH	(60°-80°)	55.3	0.2			G0/660
FVH	(80°-90°)	5.7	0.0			G0/10
BL	(0°-30°)	13027.7	42.1	B5		
BM	(30°-60°)	3470.2	11.2	B3/5000		
BH	(60°-80°)	537.9	1.7	B2/1000		G2/1000
BVH	(80°-90°)	59.7	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°	43141.0	43141.0	43141.0	43141.0	43141.0	43141.0	43141.0	43141.0	43141.0	43141.0
2.5°	42205.4	42348.2	42062.6	42251.8	42398.2	42748.2	42776.7	42898.2	42941.0	43258.8
5°	41405.5	41516.2	41284.1	41537.6	41744.7	42055.4	42294.7	42630.3	42816.0	43191.0
7.5°	40573.5	40598.4	40552.0	40819.9	41130.5	41559.0	41855.4	42294.7	42408.9	42944.6
10°	39566.4	39384.3	39473.6	39866.4	40330.6	40987.7	41191.2	41630.5	41834.0	42380.4
12.5°	37959.5	38052.3	37941.6	38441.6	38827.2	39573.6	39787.8	40230.6	40619.9	41102.0
15°	35695.5	35641.9	35866.9	36256.1	36673.9	37266.7	37613.1	38095.2	38391.6	38891.5
17.5°	30606.9	30789.0	31717.4	32692.3	33549.3	34242.1	34656.3	35056.3	35270.6	35813.3
20°	26432.4	26203.8	26328.8	26878.8	29317.7	30378.3	30814.0	30910.4	30999.7	31428.2
22.5°	21765.1	21690.1	22107.9	22725.7	23304.2	25750.3	26343.1	26118.1	26303.8	26707.3
25°	16162.2	16540.8	16912.2	18097.7	18847.6	20047.5	21172.3	21272.3	21340.2	21593.7
27.5°	13155.5	13023.4	13016.2	13348.3	14455.3	15455.2	16412.2	16633.6	16594.3	16837.2
30°	10341.6	10298.7	10148.7	10227.3	10116.6	11005.8	11455.7	12366.3	12316.3	12323.4
32.5°	7459.8	7299.1	7238.4	7356.2	7241.9	7159.8	7552.6	8581.1	8563.2	8634.6
35°	4513.7	4492.3	4542.3	4645.8	4417.3	4410.2	4492.3	5460.0	5577.9	5692.1
37.5°	2492.5	2471.1	2510.4	2892.5	2817.5	2749.7	2771.1	3281.7	3621.0	3706.7
40°	1642.6	1639.1	1667.6	1735.5	1864.1	1839.1	1849.8	2078.3	2399.7	2474.7
42.5°	1099.9	1103.4	1121.3	1199.8	1217.7	1346.3	1324.8	1378.4	1678.4	1742.6
45°	878.5	874.9	885.6	849.9	871.3	1003.4	1017.7	1021.3	1278.4	1317.7
47.5°	692.8	692.8	703.5	657.1	646.3	728.5	803.5	814.2	1021.3	1074.9
50°	485.7	485.7	539.2	517.8	542.8	567.8	649.9	660.6	835.6	892.7
52.5°	357.1	364.2	371.4	375.0	457.1	453.5	524.9	574.9	632.1	732.1
55°	271.4	278.5	260.7	278.5	339.2	378.5	392.8	464.2	503.5	614.2
57.5°	178.5	196.4	182.1	214.3	228.5	292.8	314.2	382.1	407.1	503.5
60°	25.0	28.6	46.4	150.0	160.7	192.8	242.8	303.5	328.5	410.7
62.5°	3.6	3.6	10.7	25.0	107.1	128.6	182.1	210.7	242.8	307.1
65°	0.0	0.0	3.6	7.1	21.4	75.0	92.8	114.3	167.8	221.4
67.5°	0.0	0.0	3.6	7.1	10.7	25.0	39.3	75.0	96.4	153.6
70°	0.0	0.0	3.6	7.1	10.7	14.3	21.4	28.6	57.1	89.3
72.5°	0.0	0.0	3.6	7.1	10.7	14.3	17.9	21.4	25.0	57.1
75°	0.0	0.0	3.6	7.1	10.7	17.9	21.4	21.4	21.4	25.0
77.5°	0.0	0.0	3.6	7.1	14.3	21.4	25.0	21.4	17.9	17.9
80°	0.0	0.0	3.6	10.7	17.9	25.0	28.6	21.4	14.3	10.7
82.5°	0.0	0.0	3.6	10.7	17.9	25.0	28.6	25.0	14.3	10.7
85°	0.0	0.0	3.6	10.7	14.3	17.9	28.6	25.0	14.3	7.1
87.5°	0.0	0.0	0.0	3.6	3.6	7.1	14.3	10.7	7.1	3.6
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°
43141.0	0°	43141.0	43141.0	43141.0	43141.0	43141.0	43141.0	43141.0	43141.0	43141.0
43251.7	2.5°	43573.1	43733.8	44015.9	44094.4	44337.3	44058.7	43905.2	43919.5	43587.4
43144.6	5°	43573.1	43940.9	44433.7	44669.4	44847.9	44833.6	44794.3	44694.4	44451.5
42930.3	7.5°	43458.8	44058.7	44737.2	45051.5	45265.7	45247.9	45337.1	45176.4	44880.1
42548.2	10°	43091.0	43612.4	44448.0	44705.1	45051.5	45058.6	44947.9	44980.0	44451.5
41152.0	12.5°	41934.0	42341.1	43073.1	43366.0	43787.3	43855.2	43733.8	43687.3	43187.4
38863.0	15°	39695.0	39930.7	40666.3	40959.1	41376.9	41319.8	41441.2	41391.2	40952.0
35770.5	17.5°	36420.4	36495.4	37266.7	37513.1	37905.9	38059.5	37877.4	38109.5	37731.0
31503.2	20°	31724.6	32128.1	32995.8	33374.4	33602.9	33877.9	33638.6	33899.3	33456.5
26325.3	22.5°	26960.9	27200.1	27985.8	28532.1	28957.1	29010.6	28921.4	29103.5	28507.1
21761.5	25°	21758.0	22154.3	22775.7	23489.9	23907.7	24164.8	23932.7	24050.5	23954.1
16876.4	27.5°	17162.1	17515.6	17983.4	18515.5	19144.0	19479.7	19294.0	19494.0	19022.6
12584.1	30°	12594.8	12773.4	13301.9	13866.1	14555.3	14962.4	14980.3	15183.8	14905.3
8816.7	32.5°	8881.0	9038.1	9363.1	9738.1	10395.1	10848.6	10777.2	10805.8	10634.4
5745.7	35°	5774.3	5985.0	6217.1	6395.6	6792.0	7291.9	7252.7	7216.9	7099.1
3778.1	37.5°	3860.2	3942.4	4070.9	4231.6	4488.7	4803.0	4906.5	4778.0	4728.0
2549.7	40°	2610.4	2753.2	2838.9	2960.3	3081.8	3346.0	3417.4	3392.4	3342.4
1785.5	42.5°	1853.3	1964.0	2071.2	2189.0	2253.3	2417.6	2556.8	2517.5	2496.1
1357.0	45°	1407.0	1507.0	1631.9	1721.2	1785.5	1881.9	2014.0	2028.3	1996.2
1089.1	47.5°	1128.4	1217.7	1317.7	1428.4	1503.4	1564.1	1678.4	1721.2	1699.8
917.7	50°	957.0	1024.9	1121.3	1232.0	1314.1	1367.7	1467.7	1514.1	1499.8
767.8	52.5°	814.2	896.3	985.6	1078.4	1178.4	1232.0	1324.8	1392.7	1382.0
635.6	55°	674.9	782.0	874.9	967.7	1082.0	1135.6	1217.7	1307.0	1289.1
539.2	57.5°	589.2	678.5	774.9	864.2	985.6	1057.0	1132.0	1224.8	1221.3
442.8	60°	492.8	582.1	689.2	764.2	892.7	992.7	1060.6	1157.0	1164.1
335.7	62.5°	392.8	503.5	585.6	689.2	807.0	924.9	989.2	1085.6	1121.3
257.1	65°	292.8	414.2	507.1	610.6	721.3	853.5	910.6	1007.0	1042.7
185.7	67.5°	217.8	310.7	428.5	517.8	642.8	757.0	824.9	914.2	939.2
110.7	70°	164.3	239.3	357.1	435.7	564.2	657.1	724.9	792.8	824.9
75.0	72.5°	96.4	178.5	282.1	375.0	485.7	564.2	614.2	667.8	689.2
35.7	75°	67.8	135.7	221.4	310.7	392.8	457.1	503.5	549.9	571.4
17.9	77.5°	35.7	100.0	175.0	250.0	307.1	360.7	407.1	442.8	457.1
14.3	80°	21.4	71.4	142.8	196.4	235.7	282.1	328.5	353.5	350.0
10.7	82.5°	14.3	57.1	103.6	142.8	171.4	207.1	239.3	257.1	257.1
7.1	85°	10.7	39.3	71.4	110.7	114.3	142.8	150.0	167.8	171.4
7.1	87.5°	7.1	25.0	39.3	64.3	60.7	75.0	78.6	89.3	96.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

180°
43141.0
43319.5
44530.1
44947.9
44298.0
43073.1
41091.2
37638.1
33420.8
28425.0
23893.4
19144.0
14955.3
10730.8
6995.5
4717.3
3349.6
2478.3
1992.6
1689.1
1496.2
1374.8
1289.1
1217.7
1164.1
1117.7
1039.2
939.2
817.8
682.1
564.2
453.5
346.4
253.5
167.8
92.8
0.0

(END OF REPORT)