

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: P638118

Luminaire Tested: **IFLD-M-SA4D-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638118
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-730-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21911.9 lumens
Efficiency: N/A
Efficacy: 87.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G2

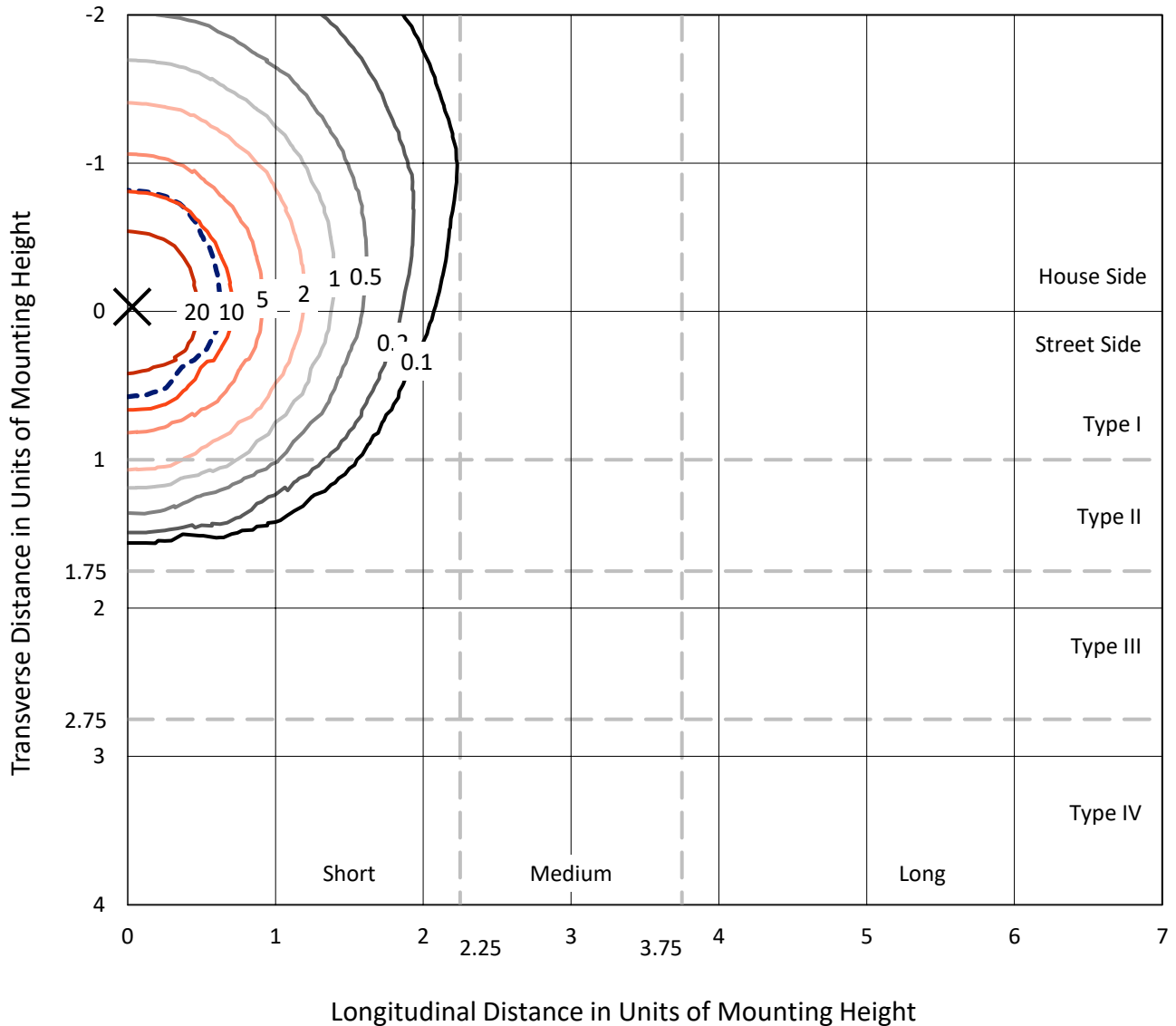
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

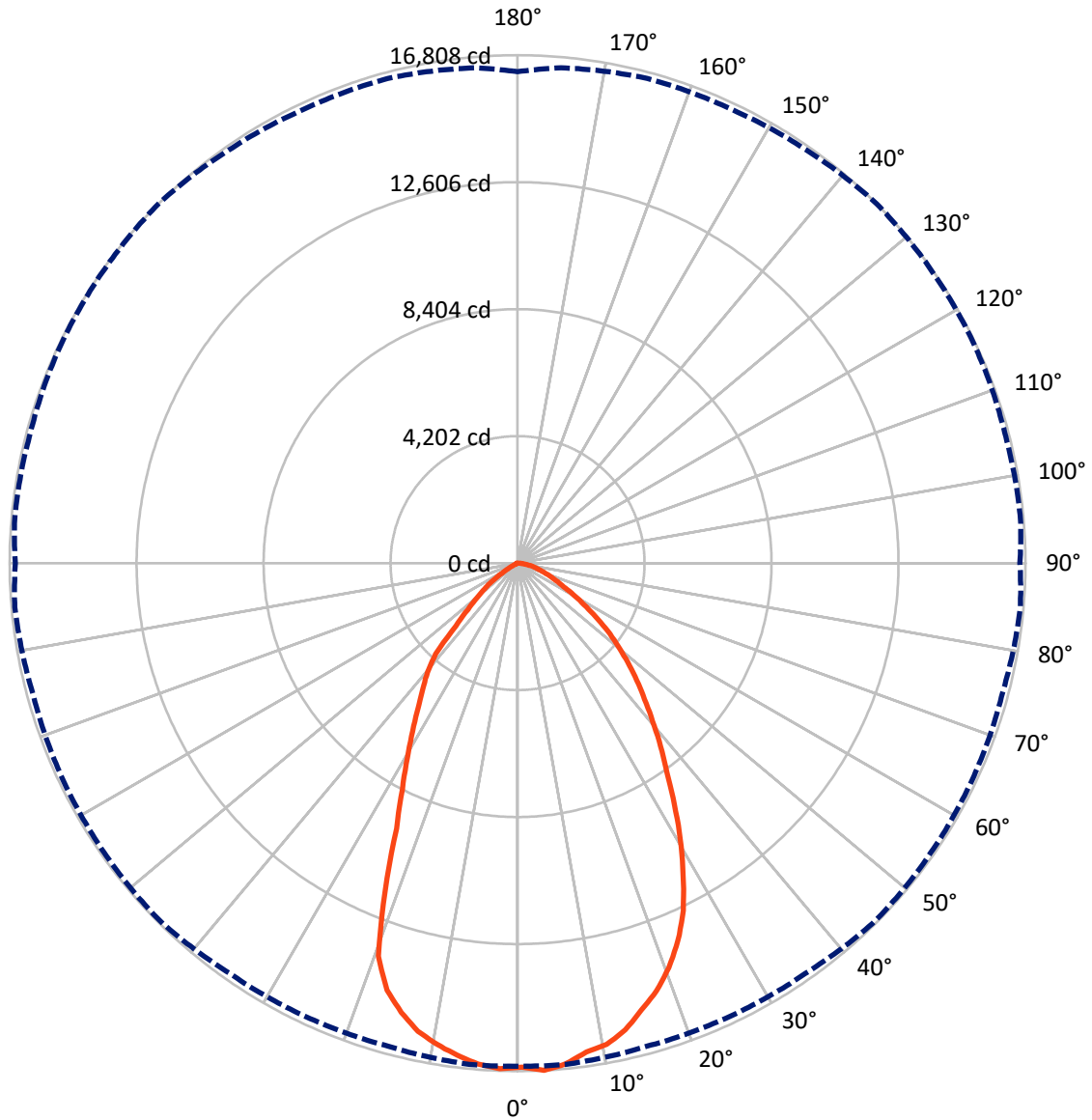
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 41.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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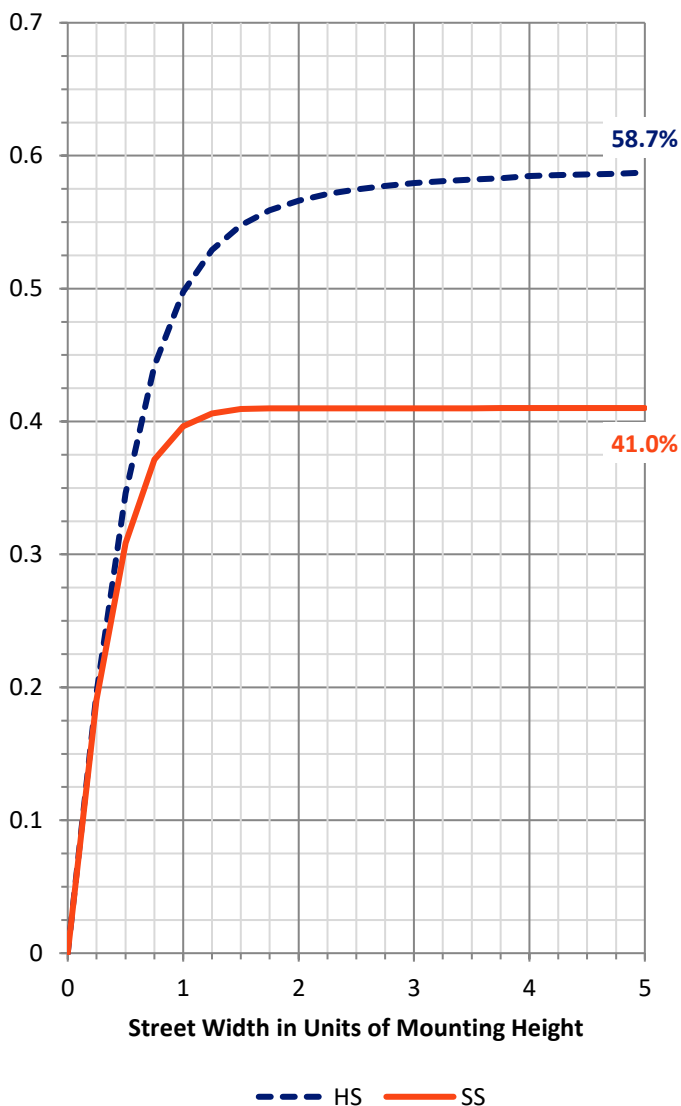
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12977.3	0.0	12977.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	8934.6	0.0	8934.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	21911.9	0.0	21911.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1563.8	7.1
10°-20°	4193.5	19.1
20°-30°	5114.2	23.3
30°-40°	4669.2	21.3
40°-50°	3374.4	15.4
50°-60°	1842.4	8.4
60°-70°	761.8	3.5
70°-80°	308.5	1.4
80°-90°	83.9	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°	21911.9	100.0
0°-180°	21911.9	100.0



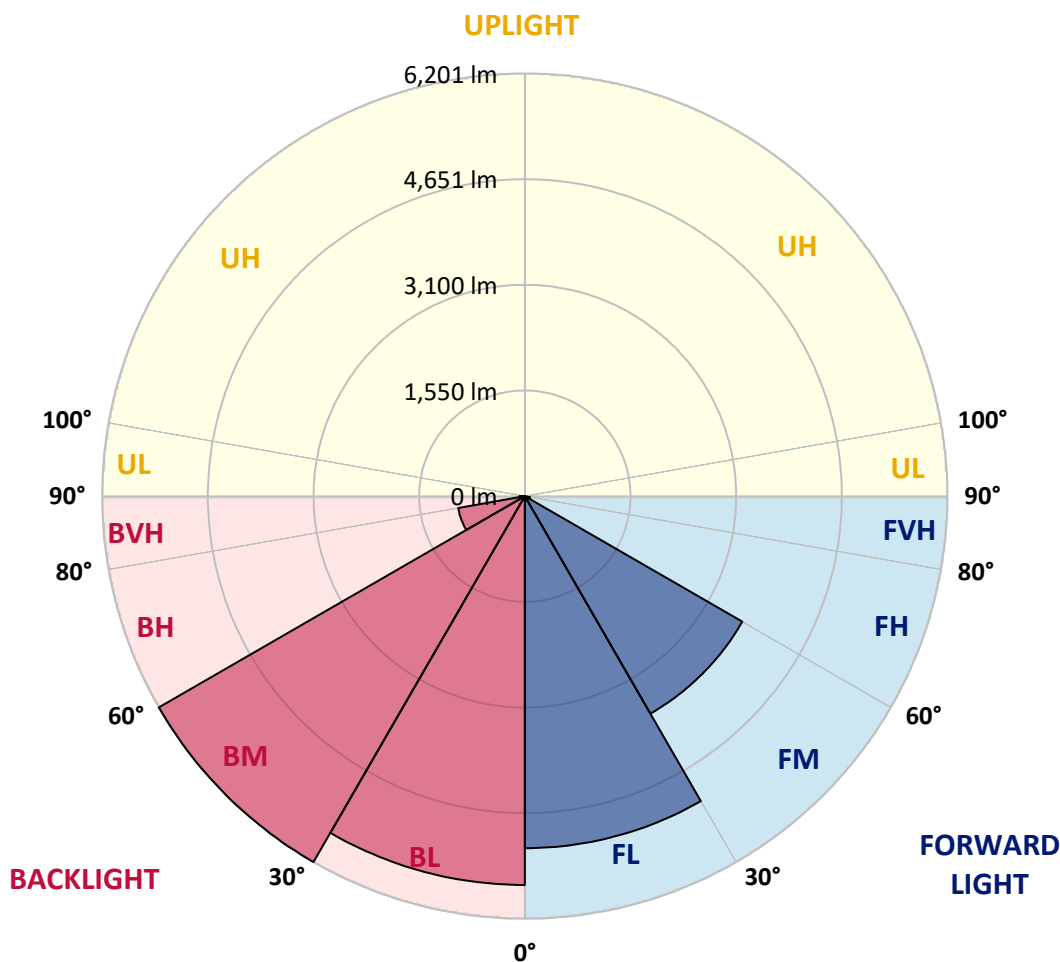
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5165.4	23.6			
FM (30°-60°)	3685.2	16.8			
FH (60°-80°)	77.2	0.4			G0/660
FVH (80°-90°)	6.7	0.0			G0/10
BL (0°-30°)	5706.2	26.0	B5		
BM (30°-60°)	6200.9	28.3	B4/8500		
BH (60°-80°)	993.1	4.5	B2/1000		G2/1000
BVH (80°-90°)	77.2	0.4			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°	16674.9	16674.9	16674.9	16674.9	16674.9	16674.9	16674.9	16674.9	16674.9	16674.9
2.5°	16644.0	16665.6	16548.3	16560.7	16582.3	16739.7	16699.5	16662.5	16610.1	16699.5
5°	16622.4	16634.7	16511.3	16468.1	16486.6	16628.6	16499.0	16499.0	16486.6	16471.2
7.5°	16455.8	16462.0	16366.3	16289.2	16338.5	16403.3	16307.7	16354.0	16286.1	16338.5
10°	16205.8	16165.7	16051.6	16030.0	16085.5	16147.2	16082.4	16125.6	16063.9	16104.0
12.5°	15838.6	15776.9	15684.4	15656.6	15752.3	15835.6	15783.1	15758.4	15678.2	15776.9
15°	14422.3	14376.1	14585.9	14953.1	15283.2	15354.2	15298.7	15323.3	15156.7	15184.5
17.5°	11870.5	11784.1	12009.4	12879.5	14119.9	14774.1	14724.7	14564.3	14317.4	14373.0
20°	10787.4	10762.8	10738.1	10944.8	11811.9	13795.9	13863.8	13456.5	13104.8	13027.6
22.5°	10176.5	10167.2	10142.5	10188.8	10417.2	11691.5	12469.1	12092.7	11858.2	11836.6
25°	9618.0	9602.5	9528.5	9587.1	9587.1	9661.2	10657.8	10886.2	10679.4	10654.8
27.5°	9050.2	9022.4	9010.1	9037.9	8895.9	8396.1	8649.1	9763.0	9655.0	9661.2
30°	8436.2	8426.9	8393.0	8451.6	8013.4	7393.2	7232.8	8744.7	8766.3	8760.2
32.5°	7522.8	7562.9	7717.2	7782.0	7060.0	6547.8	6279.3	7566.0	8007.3	7998.0
35°	5464.7	5464.7	5967.7	6902.6	6186.7	5801.0	5656.0	6415.1	7257.5	7288.3
37.5°	4492.7	4508.1	4606.9	5032.7	5338.2	5202.4	5159.2	5399.9	6294.7	6344.1
40°	4042.2	4042.2	4042.2	3866.3	3857.1	4687.1	4662.4	4585.3	5436.9	5544.9
42.5°	3631.8	3641.1	3647.2	3202.9	2956.1	4051.5	3995.9	3878.7	4668.6	4795.1
45°	3209.1	3224.5	3243.0	2678.3	2570.3	2915.9	3381.9	3252.3	3909.5	4073.1
47.5°	1959.4	1984.1	2403.7	2271.0	2283.4	2249.4	2758.6	2737.0	3206.0	3437.4
50°	1323.7	1333.0	1373.1	1441.0	1959.4	1768.1	1953.2	2264.9	2434.6	2786.3
52.5°	1110.8	1126.3	1027.5	935.0	1286.7	1382.4	1363.9	1681.7	1749.6	2184.6
55°	780.7	830.0	783.8	774.5	731.3	1073.8	1033.7	1292.9	1336.1	1660.1
57.5°	80.2	92.6	160.5	577.0	478.3	607.9	737.5	947.3	990.5	1225.0
60°	6.2	6.2	15.4	80.2	348.7	364.1	509.1	583.2	666.5	854.7
62.5°	0.0	3.1	6.2	12.3	55.5	194.4	256.1	305.5	401.1	552.3
65°	0.0	0.0	3.1	9.3	12.3	74.1	98.7	160.5	219.1	342.5
67.5°	0.0	0.0	3.1	6.2	9.3	18.5	33.9	58.6	117.3	194.4
70°	0.0	0.0	3.1	6.2	9.3	15.4	24.7	37.0	52.5	104.9
72.5°	0.0	0.0	3.1	3.1	6.2	15.4	18.5	24.7	37.0	52.5
75°	0.0	0.0	3.1	3.1	9.3	18.5	15.4	18.5	24.7	33.9
77.5°	0.0	0.0	3.1	6.2	9.3	18.5	15.4	18.5	18.5	21.6
80°	0.0	0.0	3.1	6.2	12.3	21.6	18.5	18.5	15.4	15.4
82.5°	0.0	0.0	3.1	9.3	12.3	27.8	27.8	24.7	12.3	9.3
85°	0.0	0.0	6.2	12.3	18.5	30.9	30.9	24.7	9.3	6.2
87.5°	0.0	0.0	6.2	9.3	15.4	21.6	30.9	24.7	9.3	3.1
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°
16674.9	0°	16674.9	16674.9	16674.9	16674.9	16674.9	16674.9	16674.9	16674.9	16674.9
16622.4	2.5°	16705.7	16687.2	16748.9	16773.6	16807.5	16677.9	16597.7	16600.8	16452.7
16434.2	5°	16532.9	16536.0	16616.2	16610.1	16644.0	16573.0	16542.2	16489.7	16360.1
16196.6	7.5°	16313.8	16286.1	16363.2	16421.8	16335.4	16384.8	16313.8	16338.5	16261.4
15986.8	10°	16144.1	16079.3	16150.3	16190.4	16193.5	16144.1	16076.2	16011.4	15983.7
15659.7	12.5°	15767.7	15684.4	15804.7	15860.2	15851.0	15755.3	15678.2	15693.6	15604.1
15085.8	15°	15249.3	15252.4	15338.8	15391.2	15341.9	15320.3	15326.4	15289.4	15212.3
14292.7	17.5°	14456.3	14502.6	14730.9	14857.4	14885.2	14842.0	14820.4	14777.2	14700.0
13027.6	20°	13135.6	13413.3	13820.6	14212.5	14289.7	14277.3	14200.2	14181.7	14138.5
11774.8	22.5°	11975.4	12182.2	12654.3	13265.2	13580.0	13610.8	13518.2	13490.5	13444.2
10654.8	25°	10775.1	10997.3	11423.1	12086.5	12737.6	12870.3	12854.8	12771.5	12722.1
9661.2	27.5°	9763.0	9985.2	10370.9	10969.5	11666.8	12092.7	12132.8	12000.1	11997.0
8775.6	30°	8849.6	9155.1	9448.3	9935.8	10611.6	11250.3	11318.2	11225.6	11234.9
7964.1	32.5°	8133.8	8386.8	8636.7	8963.8	9525.4	10269.0	10534.4	10448.0	10414.1
7288.3	35°	7402.5	7575.3	7831.4	8130.7	8513.3	9250.8	9710.5	9645.7	9611.8
6375.0	37.5°	6569.4	6865.6	7050.7	7387.0	7686.4	8272.6	8920.6	8911.4	8840.4
5597.4	40°	5714.6	6026.3	6307.1	6646.5	6877.9	7343.9	8062.8	8059.7	8069.0
4792.0	42.5°	4940.1	5227.1	5566.5	5936.8	6159.0	6498.4	7269.8	7313.0	7365.5
4128.6	45°	4239.7	4498.9	4813.6	5264.1	5532.6	5727.0	6412.0	6609.5	6606.4
3536.2	47.5°	3610.2	3854.0	4119.3	4557.5	4900.0	5075.9	5643.7	5924.5	5905.9
2900.5	50°	3030.1	3246.1	3523.8	3841.6	4301.4	4455.7	4878.4	5248.7	5220.9
2311.2	52.5°	2437.7	2737.0	2971.5	3261.5	3746.0	3897.2	4224.3	4585.3	4563.7
1734.1	55°	1900.8	2190.8	2474.7	2724.6	3131.9	3357.2	3591.7	3962.0	3955.8
1357.7	57.5°	1437.9	1755.7	2024.2	2261.8	2585.8	2863.5	3051.7	3388.0	3431.2
928.8	60°	1064.5	1308.3	1598.4	1863.7	2119.8	2406.8	2533.3	2863.5	2882.0
635.6	62.5°	725.1	993.6	1277.5	1518.1	1709.5	2005.7	2119.8	2391.4	2425.3
407.3	65°	503.0	675.8	999.8	1172.5	1407.1	1660.1	1774.2	1990.2	2058.1
234.5	67.5°	333.3	481.4	780.7	938.0	1169.5	1342.3	1487.3	1663.2	1737.2
148.1	70°	182.1	354.8	558.5	740.6	941.1	1107.7	1249.7	1391.6	1456.4
67.9	72.5°	123.4	237.6	388.8	586.3	759.1	922.6	1049.1	1154.0	1157.1
40.1	75°	61.7	160.5	296.2	453.6	592.4	752.9	867.1	928.8	854.7
24.7	77.5°	37.0	117.3	240.7	364.1	481.4	607.9	672.7	706.6	586.3
18.5	80°	21.6	83.3	188.2	290.1	333.3	447.4	509.1	518.4	391.9
12.3	82.5°	15.4	61.7	148.1	212.9	203.7	314.7	382.6	370.3	249.9
9.3	85°	9.3	43.2	92.6	132.7	123.4	206.7	222.2	228.3	145.0
6.2	87.5°	6.2	24.7	49.4	71.0	58.6	89.5	89.5	108.0	71.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
16674.9
16261.4
16329.3
16131.8
15860.2
15527.0
15135.1
14666.1
14039.7
13431.8
12669.7
11990.8
11188.6
10417.2
9565.5
8899.0
8069.0
7337.7
6612.6
5912.1
5245.6
4610.0
3971.2
3412.7
2909.8
2431.5
2042.7
1728.0
1431.7
1129.3
799.2
564.7
367.2
231.4
132.7
61.7
0.0

(END OF REPORT)