

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: P636639

Luminaire Tested: **IFLD-M-SA4D-935-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636639
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-935-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16539.3 lumens
Efficiency: N/A
Efficacy: 66.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

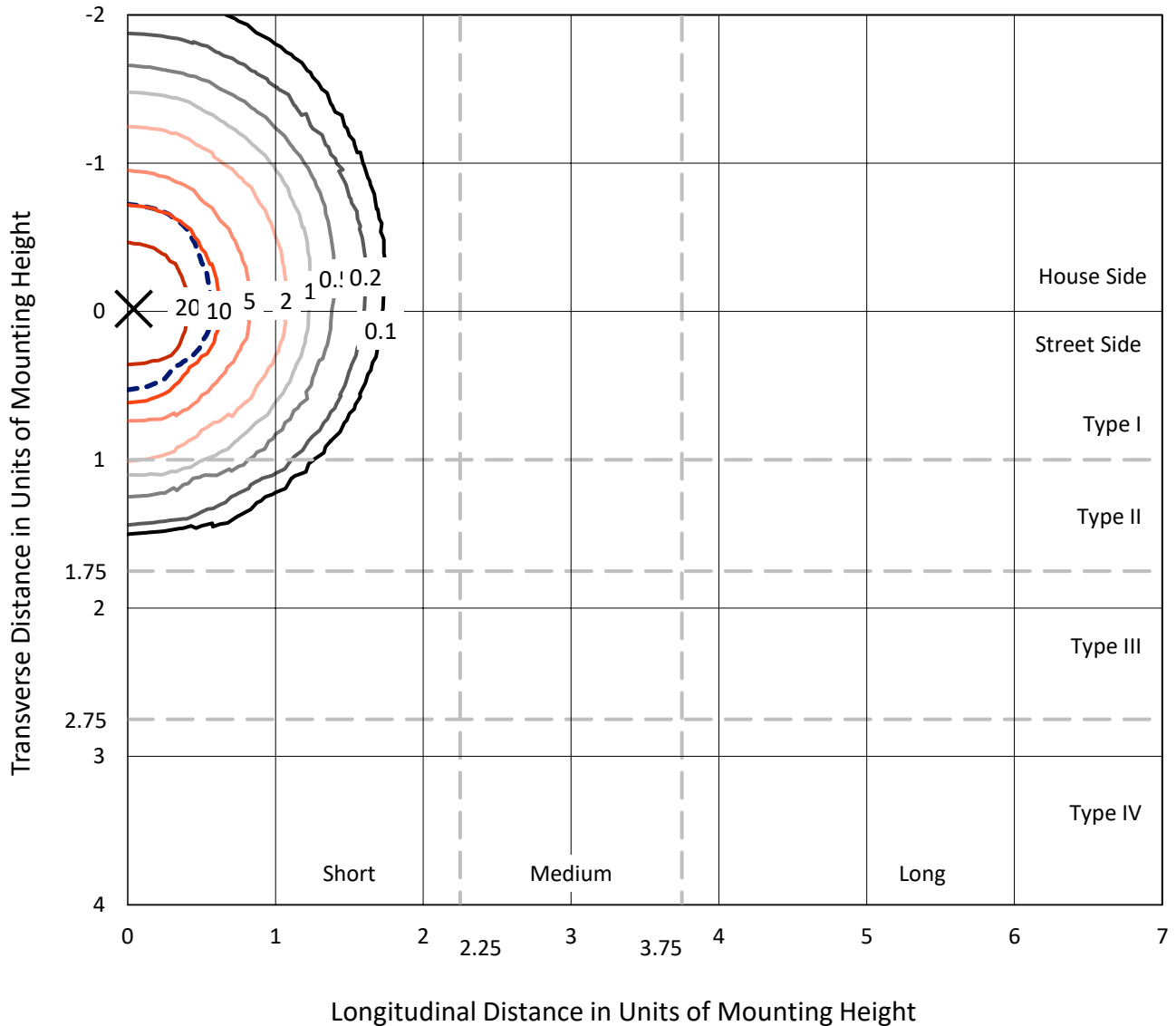
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

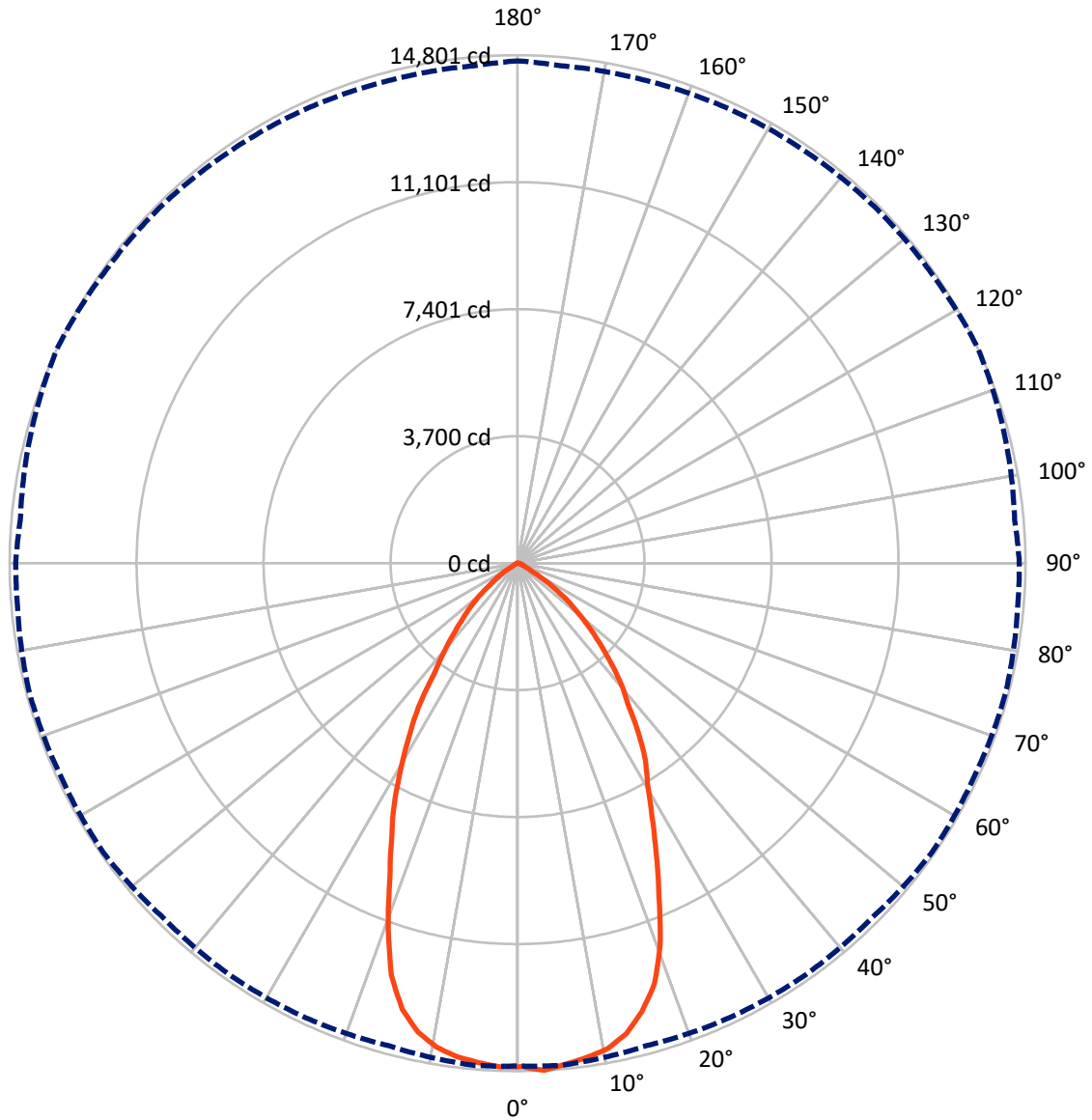
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 36.7 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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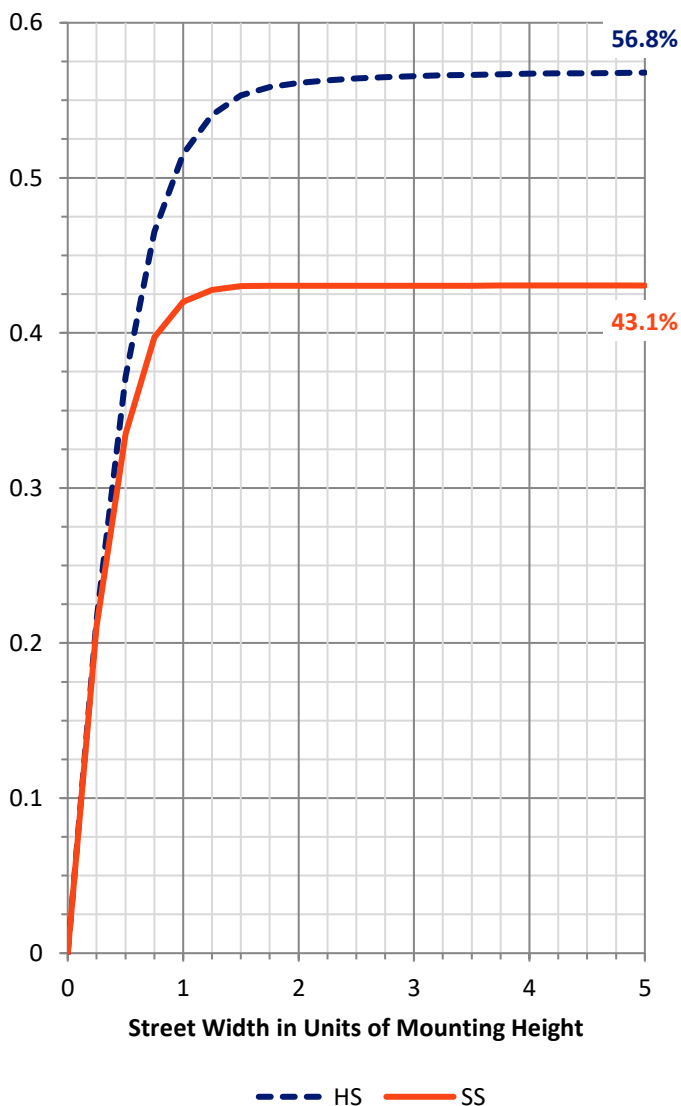
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9465.2	0.0	9465.2
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	7074.0	0.0	7074.0
	% Fixture	42.8	0.0	42.8
Total	Lumens	16539.3	0.0	16539.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1382.2	8.4
10°-20°	3664.8	22.2
20°-30°	4191.7	25.3
30°-40°	3592.2	21.7
40°-50°	2375.3	14.4
50°-60°	1036.5	6.3
60°-70°	203.6	1.2
70°-80°	73.5	0.4
80°-90°	19.5	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°	16539.3	100.0
0°-180°	16539.3	100.0



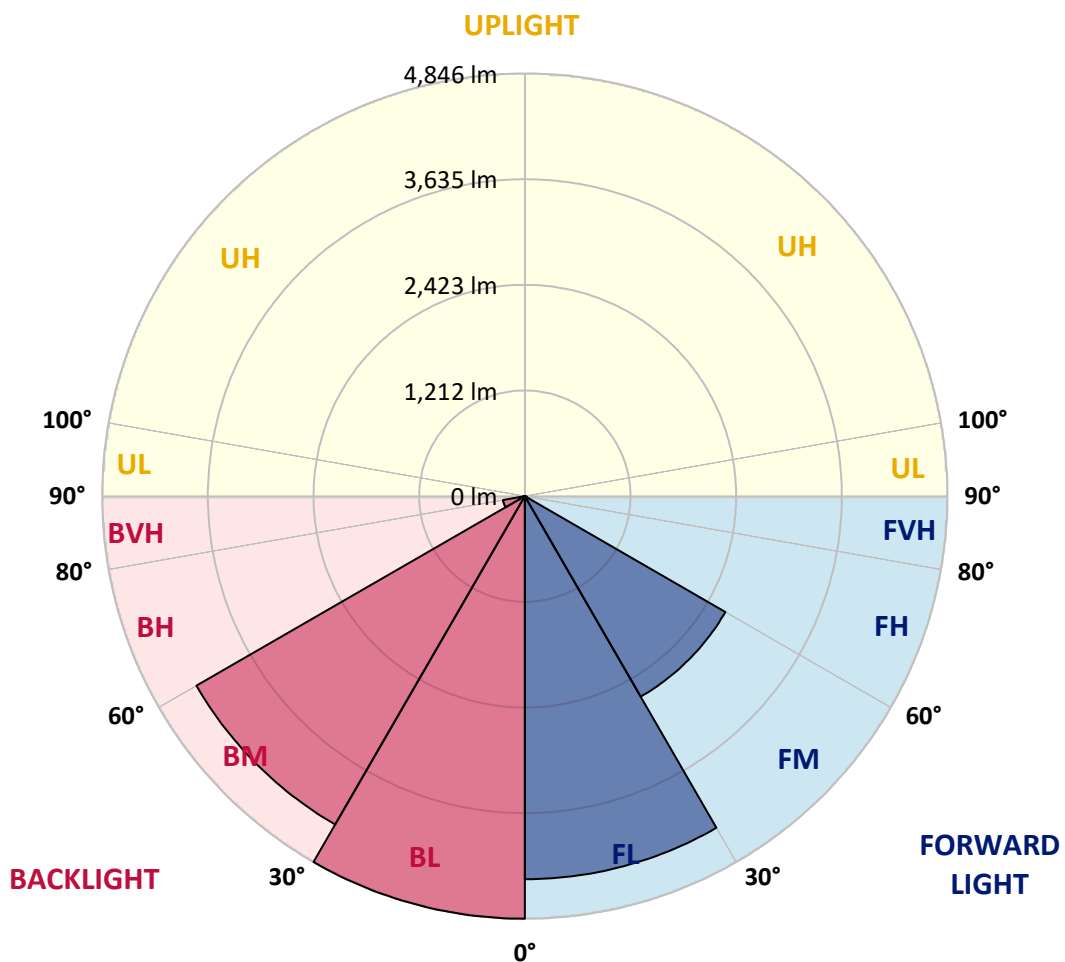
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4392.5	26.6			
FM (30°-60°)	2655.8	16.1			
FH (60°-80°)	22.5	0.1			G0/660
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	4846.2	29.3	B4/5000		
BM (30°-60°)	4348.1	26.3	B3/5000		
BH (60°-80°)	254.6	1.5	B1/500		G1/500
BVH (80°-90°)	16.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	14674.5	14674.5	14674.5	14674.5	14674.5	14674.5	14674.5	14674.5	14674.5	14674.5
2.5°	14653.4	14688.6	14555.0	14614.8	14639.4	14607.7	14723.7	14688.6	14716.7	14628.8
5°	14653.4	14688.6	14533.9	14562.0	14569.1	14509.3	14635.9	14593.7	14597.2	14505.8
7.5°	14562.0	14604.2	14463.6	14484.7	14488.2	14439.0	14548.0	14488.2	14467.1	14372.2
10°	14315.9	14340.5	14214.0	14266.7	14315.9	14270.2	14365.1	14298.3	14298.3	14214.0
12.5°	13925.7	13971.4	13830.8	13894.0	13936.2	13883.5	13992.5	13967.9	13971.4	13887.0
15°	13215.5	13057.3	13226.1	13352.6	13356.1	13345.6	13447.5	13422.9	13440.5	13313.9
17.5°	9763.1	9724.4	9921.3	11415.5	12526.4	12677.6	12695.2	12561.6	12501.8	12378.8
20°	9045.9	9074.0	9031.8	9038.9	9914.3	11731.9	11622.9	11292.4	11141.2	11018.2
22.5°	8522.1	8476.3	8448.2	8430.6	8455.3	9640.0	10424.0	9924.8	9844.0	9784.2
25°	7952.5	7931.4	7896.3	7889.2	7875.2	7674.8	8803.3	8849.0	8718.9	8645.1
27.5°	7421.6	7407.6	7368.9	7365.4	7203.7	6718.5	6841.5	7927.9	7892.7	7864.6
30°	6855.6	6827.5	6806.4	6806.4	6317.7	5818.5	5618.1	6911.9	6911.9	6887.3
32.5°	6240.4	6215.8	6222.8	6138.4	5554.8	5097.8	4781.3	5966.1	6335.3	6314.2
35°	3814.5	3807.5	4521.2	5459.9	4774.3	4359.5	4338.4	5104.8	5642.7	5698.9
37.5°	3396.2	3375.1	3385.6	3445.4	4088.8	3923.5	3916.5	4046.6	4802.4	4830.6
40°	3048.1	3034.0	3023.5	2809.0	2605.1	3501.6	3477.0	3392.6	4102.8	4152.0
42.5°	2717.6	2703.6	2703.6	2401.2	2070.7	2879.4	2889.9	2791.5	3459.4	3477.0
45°	2376.6	2366.1	2306.3	1916.1	1821.1	1912.5	2394.2	2281.7	2745.8	2928.6
47.5°	1121.5	1114.5	1613.7	1592.6	1585.6	1529.3	1828.2	1891.4	2179.7	2362.5
50°	900.0	893.0	850.8	748.8	1304.3	1160.2	1318.4	1455.5	1546.9	1715.7
52.5°	745.3	738.3	650.4	576.6	724.2	847.3	787.5	973.8	970.3	1153.1
55°	488.7	453.5	499.2	471.1	379.7	615.2	601.2	738.3	720.7	878.9
57.5°	10.5	10.5	24.6	267.2	239.1	260.2	344.5	421.9	474.6	520.3
60°	3.5	3.5	7.0	14.1	98.4	109.0	133.6	154.7	218.0	270.7
62.5°	0.0	0.0	3.5	7.0	14.1	56.3	63.3	73.8	102.0	140.6
65°	0.0	0.0	0.0	3.5	7.0	14.1	21.1	45.7	63.3	80.9
67.5°	0.0	0.0	0.0	3.5	3.5	7.0	14.1	21.1	28.1	56.3
70°	0.0	0.0	0.0	3.5	3.5	7.0	10.5	14.1	21.1	28.1
72.5°	0.0	0.0	0.0	3.5	3.5	10.5	7.0	10.5	14.1	17.6
75°	0.0	0.0	0.0	3.5	3.5	3.5	7.0	10.5	10.5	14.1
77.5°	0.0	0.0	0.0	3.5	7.0	7.0	7.0	7.0	7.0	10.5
80°	0.0	0.0	0.0	3.5	3.5	7.0	10.5	14.1	7.0	7.0
82.5°	0.0	0.0	0.0	7.0	3.5	14.1	21.1	17.6	7.0	3.5
85°	0.0	0.0	0.0	3.5	14.1	17.6	17.6	10.5	3.5	3.5
87.5°	0.0	0.0	0.0	3.5	3.5	7.0	10.5	10.5	3.5	3.5
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°
14674.5	0°	14674.5	14674.5	14674.5	14674.5	14674.5	14674.5	14674.5	14674.5	14674.5
14621.8	2.5°	14540.9	14678.0	14801.1	14723.7	14695.6	14639.4	14597.2	14551.5	14548.0
14495.2	5°	14414.4	14544.4	14664.0	14572.6	14579.6	14551.5	14523.3	14512.8	14519.8
14365.1	7.5°	14305.4	14414.4	14544.4	14467.1	14488.2	14470.6	14456.6	14435.5	14467.1
14196.4	10°	14140.1	14238.6	14389.8	14315.9	14305.4	14287.8	14273.7	14235.1	14252.6
13890.5	12.5°	13778.0	13901.1	14073.3	13989.0	14017.1	13967.9	13946.8	13922.2	13925.7
13359.7	15°	13285.8	13380.7	13556.5	13489.7	13510.8	13479.2	13479.2	13479.2	13503.8
12396.4	17.5°	12428.0	12621.4	12899.1	12814.7	12846.4	12853.4	12846.4	12871.0	12902.6
11025.2	20°	11032.3	11362.7	11869.0	12034.2	12101.0	12104.5	12055.3	12115.1	12178.4
9742.0	22.5°	9749.0	10097.1	10543.6	10997.1	11278.4	11264.3	11271.3	11310.0	11376.8
8599.4	25°	8638.1	8972.1	9376.4	9780.7	10395.9	10522.5	10526.0	10561.2	10613.9
7818.9	27.5°	7836.5	7966.6	8335.7	8743.5	9404.5	9808.8	9787.7	9819.3	9875.6
6841.5	30°	6869.7	7368.9	7453.3	7702.9	8272.4	9014.3	9017.8	9052.9	9109.2
6265.0	32.5°	6247.4	6577.9	6838.0	6845.1	7330.2	8093.1	8244.3	8279.5	8318.1
5667.3	35°	5663.8	5702.5	6054.0	6152.5	6433.7	7189.6	7456.8	7477.9	7541.2
4820.0	37.5°	4900.9	5129.4	5227.8	5579.4	5593.5	6205.2	6736.1	6715.0	6764.2
4148.5	40°	4201.3	4419.2	4668.8	4925.5	4960.7	5417.7	6004.8	6025.9	6047.0
3441.9	42.5°	3470.0	3747.7	4004.4	4176.6	4415.7	4679.4	5238.4	5336.8	5386.0
2949.7	45°	3002.4	3079.8	3385.6	3638.7	3881.3	4004.4	4528.2	4707.5	4739.2
2334.4	47.5°	2366.1	2626.2	2833.7	3048.1	3350.5	3459.4	3839.1	4088.8	4113.4
1733.2	50°	1828.2	2014.5	2299.3	2492.6	2844.2	2904.0	3164.1	3487.6	3519.2
1160.2	52.5°	1307.8	1561.0	1838.7	2025.0	2362.5	2439.9	2633.3	2942.6	2963.7
889.5	55°	938.7	1103.9	1332.4	1599.6	1845.7	2018.0	2151.6	2446.9	2475.1
583.6	57.5°	639.9	794.5	889.5	1156.7	1304.3	1490.7	1599.6	1824.6	1845.7
277.7	60°	305.9	379.7	453.5	587.1	682.0	840.3	910.6	1002.0	1026.6
168.8	62.5°	196.9	232.0	295.3	351.6	443.0	541.4	569.5	646.9	675.0
105.5	65°	130.1	165.2	232.0	246.1	337.5	414.9	450.0	506.3	537.9
63.3	67.5°	73.8	116.0	172.3	203.9	267.2	341.0	379.7	428.9	457.0
42.2	70°	49.2	94.9	137.1	168.8	210.9	274.2	323.4	365.6	383.2
21.1	72.5°	28.1	59.8	94.9	133.6	168.8	228.5	274.2	309.4	203.9
14.1	75°	17.6	45.7	80.9	112.5	140.6	182.8	221.5	218.0	91.4
10.5	77.5°	14.1	35.2	70.3	94.9	116.0	126.6	158.2	179.3	70.3
7.0	80°	10.5	28.1	63.3	80.9	45.7	91.4	123.0	133.6	49.2
7.0	82.5°	7.0	17.6	52.7	56.3	31.6	66.8	98.4	87.9	35.2
3.5	85°	3.5	10.5	17.6	31.6	28.1	31.6	24.6	35.2	24.6
3.5	87.5°	3.5	7.0	14.1	14.1	14.1	10.5	14.1	14.1	14.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
14674.5
14632.3
14607.7
14555.0
14337.0
14027.6
13514.3
13008.1
12220.6
11387.3
10705.3
9928.3
9207.6
8406.0
7608.0
6824.0
6113.8
5456.4
4816.5
4173.1
3564.9
3002.4
2499.7
1887.9
1054.7
682.0
537.9
453.5
379.7
165.2
91.4
70.3
52.7
35.2
24.6
14.1
0.0

(END OF REPORT)