

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: P638115

Luminaire Tested: **IFLD-M-SA4A-730-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638115
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-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: 12934.9 lumens
Efficiency: N/A
Efficacy: 100.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

Input Watts (W): 128.6
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

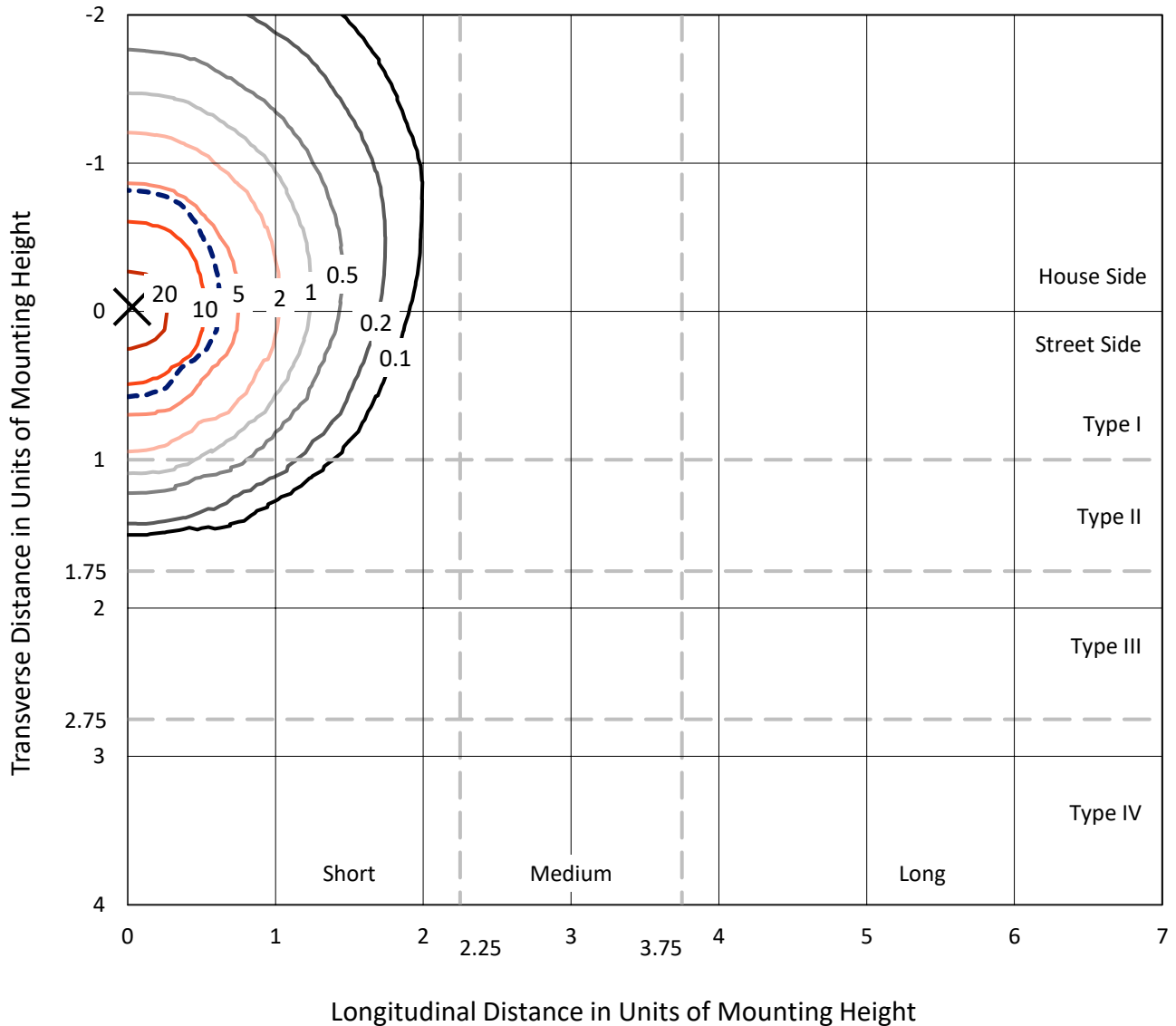




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Iso-Footcandle Lines of Horizontal Illumination

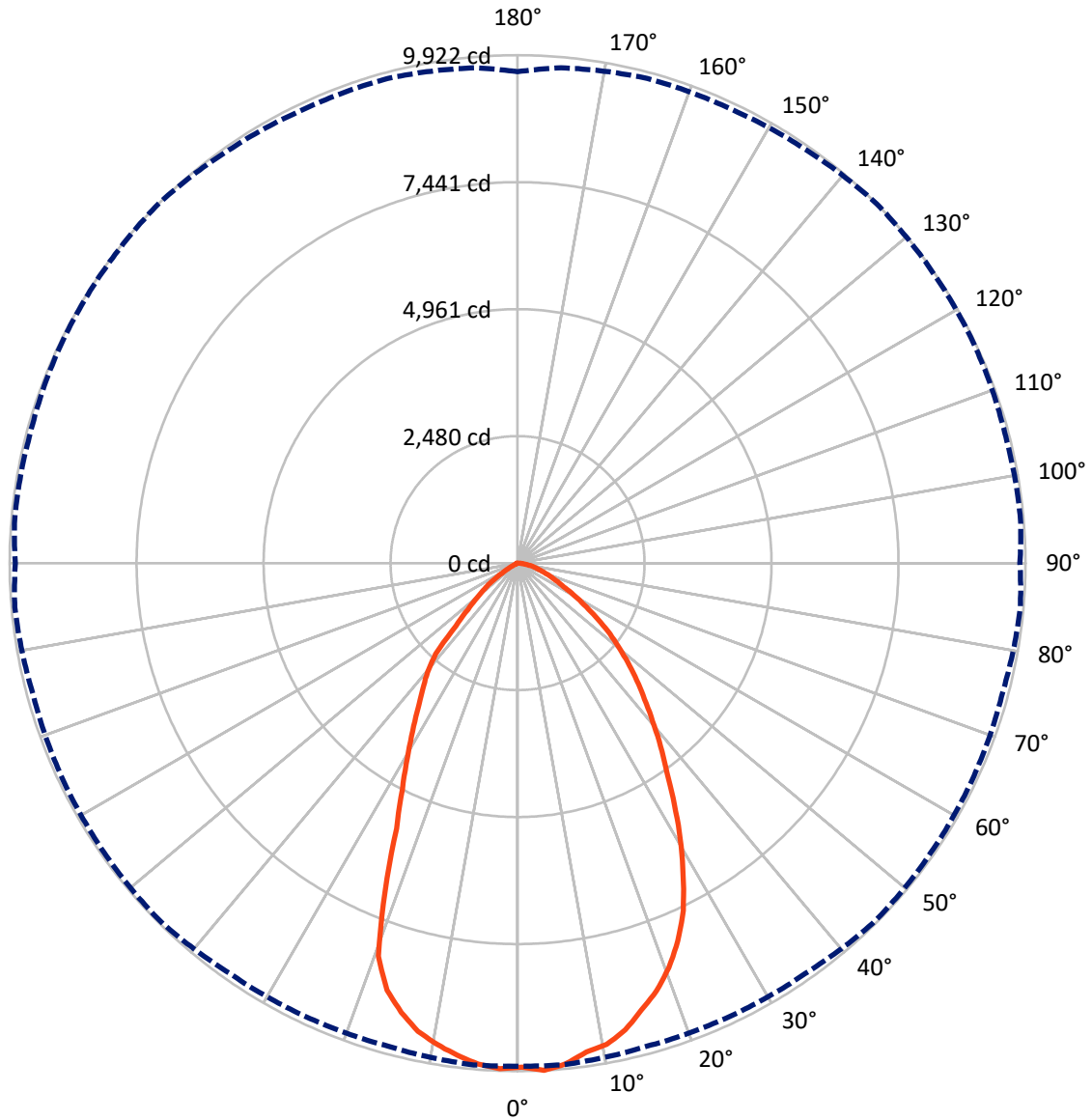
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.6 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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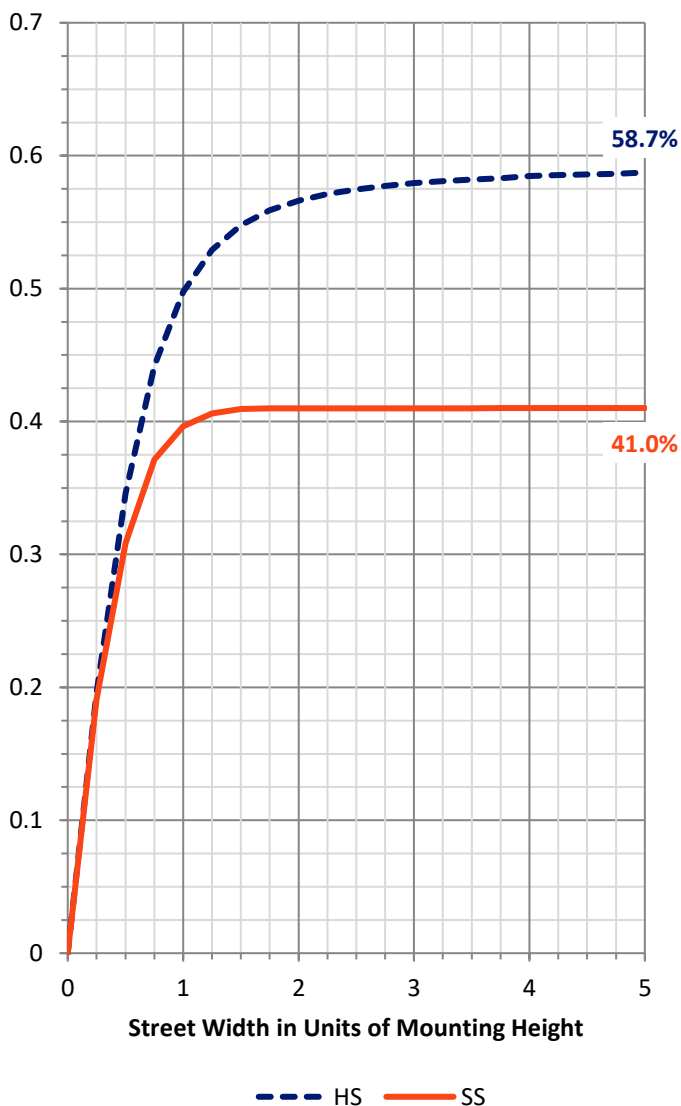
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7660.7	0.0	7660.7
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5274.2	0.0	5274.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	12934.9	0.0	12934.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	923.2	7.1
10°-20°	2475.5	19.1
20°-30°	3019.0	23.3
30°-40°	2756.3	21.3
40°-50°	1991.9	15.4
50°-60°	1087.6	8.4
60°-70°	449.7	3.5
70°-80°	182.1	1.4
80°-90°	49.5	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°	12934.9	100.0
0°-180°	12934.9	100.0



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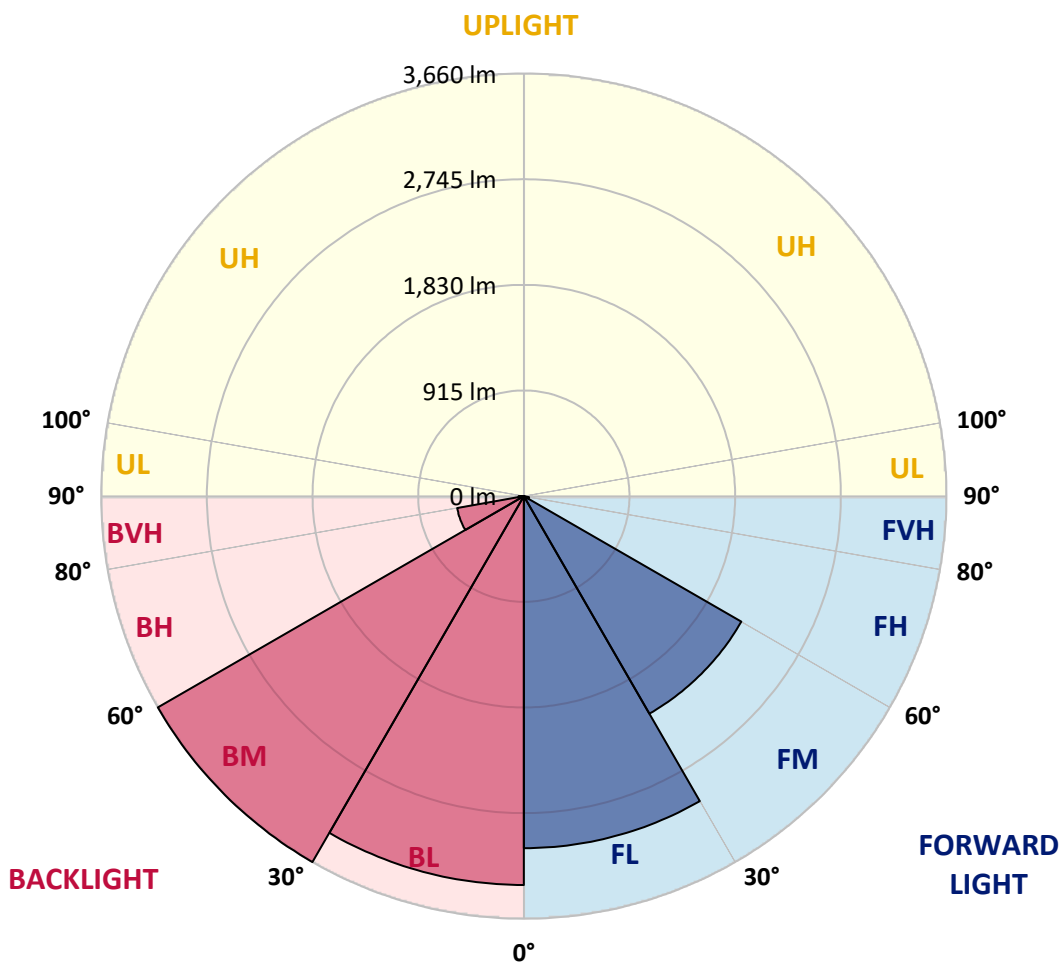
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3049.2	23.6			
FM (30°-60°)	2175.4	16.8			
FH (60°-80°)	45.6	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	3368.4	26.0	B4/5000		
BM (30°-60°)	3660.5	28.3	B3/5000		
BH (60°-80°)	586.2	4.5	B2/1000		G2/1000
BVH (80°-90°)	45.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9843.4	9843.4	9843.4	9843.4	9843.4	9843.4	9843.4	9843.4	9843.4	9843.4
2.5°	9825.2	9838.0	9768.7	9776.0	9788.8	9881.7	9858.0	9836.1	9805.2	9858.0
5°	9812.5	9819.7	9746.9	9721.4	9732.3	9816.1	9739.6	9739.6	9732.3	9723.2
7.5°	9714.1	9717.7	9661.3	9615.7	9644.9	9683.1	9626.7	9654.0	9613.9	9644.9
10°	9566.5	9542.9	9475.5	9462.7	9495.5	9531.9	9493.7	9519.2	9482.8	9506.4
12.5°	9349.8	9313.4	9258.7	9242.3	9298.8	9348.0	9317.0	9302.4	9255.1	9313.4
15°	8513.7	8486.4	8610.3	8827.0	9021.9	9063.8	9031.0	9045.6	8947.2	8963.6
17.5°	7007.3	6956.3	7089.3	7603.0	8335.2	8721.4	8692.2	8597.5	8451.8	8484.6
20°	6368.0	6353.4	6338.8	6460.9	6972.7	8144.0	8184.0	7943.6	7735.9	7690.4
22.5°	6007.3	6001.9	5987.3	6014.6	6149.4	6901.7	7360.7	7138.5	7000.0	6987.3
25°	5677.6	5668.5	5624.8	5659.4	5659.4	5703.1	6291.5	6426.3	6304.2	6289.7
27.5°	5342.5	5326.1	5318.8	5335.2	5251.4	4956.3	5105.7	5763.2	5699.5	5703.1
30°	4980.0	4974.5	4954.5	4989.1	4730.5	4364.3	4269.6	5162.1	5174.9	5171.3
32.5°	4440.8	4464.5	4555.6	4593.8	4167.6	3865.2	3706.8	4466.3	4726.8	4721.3
35°	3225.9	3225.9	3522.8	4074.7	3652.1	3424.4	3338.8	3786.9	4284.2	4302.4
37.5°	2652.1	2661.2	2719.5	2970.9	3151.2	3071.1	3045.6	3187.6	3715.9	3745.0
40°	2386.2	2386.2	2386.2	2282.3	2276.9	2766.9	2752.3	2706.8	3209.5	3273.2
42.5°	2143.9	2149.4	2153.0	1890.7	1745.0	2391.6	2358.9	2289.6	2755.9	2830.6
45°	1894.4	1903.5	1914.4	1581.1	1517.3	1721.3	1996.4	1919.9	2307.8	2404.4
47.5°	1156.7	1171.2	1419.0	1340.6	1347.9	1327.9	1628.4	1615.7	1892.5	2029.2
50°	781.4	786.9	810.6	850.6	1156.7	1043.7	1153.0	1337.0	1437.2	1644.8
52.5°	655.7	664.8	606.6	551.9	759.6	816.0	805.1	992.7	1032.8	1289.6
55°	460.8	490.0	462.7	457.2	431.7	633.9	610.2	763.2	788.7	980.0
57.5°	47.4	54.6	94.7	340.6	282.3	358.8	435.3	559.2	584.7	723.1
60°	3.6	3.6	9.1	47.4	205.8	214.9	300.5	344.3	393.4	504.6
62.5°	0.0	1.8	3.6	7.3	32.8	114.8	151.2	180.3	236.8	326.0
65°	0.0	0.0	1.8	5.5	7.3	43.7	58.3	94.7	129.3	202.2
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	20.0	34.6	69.2	114.8
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	21.9	31.0	61.9
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	10.9	14.6	21.9	31.0
75°	0.0	0.0	1.8	1.8	5.5	10.9	9.1	10.9	14.6	20.0
77.5°	0.0	0.0	1.8	3.6	5.5	10.9	9.1	10.9	10.9	12.8
80°	0.0	0.0	1.8	3.6	7.3	12.8	10.9	10.9	9.1	9.1
82.5°	0.0	0.0	1.8	5.5	7.3	16.4	16.4	14.6	7.3	5.5
85°	0.0	0.0	3.6	7.3	10.9	18.2	18.2	14.6	5.5	3.6
87.5°	0.0	0.0	3.6	5.5	9.1	12.8	18.2	14.6	5.5	1.8
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°
9843.4	0°	9843.4	9843.4	9843.4	9843.4	9843.4	9843.4	9843.4	9843.4	9843.4
9812.5	2.5°	9861.6	9850.7	9887.1	9901.7	9921.7	9845.2	9797.9	9799.7	9712.3
9701.3	5°	9759.6	9761.4	9808.8	9805.2	9825.2	9783.3	9765.1	9734.1	9657.6
9561.1	7.5°	9630.3	9613.9	9659.4	9694.1	9643.1	9672.2	9630.3	9644.9	9599.3
9437.2	10°	9530.1	9491.9	9533.8	9557.4	9559.3	9530.1	9490.0	9451.8	9435.4
9244.1	12.5°	9307.9	9258.7	9329.8	9362.5	9357.1	9300.6	9255.1	9264.2	9211.4
8905.3	15°	9001.9	9003.7	9054.7	9085.7	9056.5	9043.8	9047.4	9025.6	8980.0
8437.2	17.5°	8533.8	8561.1	8695.9	8770.6	8786.9	8761.4	8748.7	8723.2	8677.7
7690.4	20°	7754.2	7918.1	8158.5	8389.9	8435.4	8428.1	8382.6	8371.6	8346.1
6950.9	22.5°	7069.3	7191.3	7470.0	7830.7	8016.4	8034.7	7980.0	7963.6	7936.3
6289.7	25°	6360.7	6491.8	6743.2	7134.8	7519.2	7597.5	7588.4	7539.2	7510.1
5703.1	27.5°	5763.2	5894.4	6122.1	6475.5	6887.1	7138.5	7162.2	7083.8	7082.0
5180.4	30°	5224.1	5404.4	5577.5	5865.2	6264.2	6641.2	6681.3	6626.6	6632.1
4701.3	32.5°	4801.5	4950.9	5098.4	5291.5	5623.0	6062.0	6218.6	6167.6	6147.6
4302.4	35°	4369.8	4471.8	4623.0	4799.7	5025.5	5460.9	5732.3	5694.0	5674.0
3763.2	37.5°	3878.0	4052.9	4162.1	4360.7	4537.4	4883.5	5266.0	5260.5	5218.6
3304.2	40°	3373.4	3557.4	3723.2	3923.5	4060.1	4335.2	4759.6	4757.8	4763.2
2828.8	42.5°	2916.2	3085.6	3286.0	3504.6	3635.7	3836.1	4291.5	4317.0	4347.9
2437.2	45°	2502.7	2655.8	2841.5	3107.5	3266.0	3380.7	3785.1	3901.7	3899.8
2087.4	47.5°	2131.2	2275.1	2431.7	2690.4	2892.6	2996.4	3331.5	3497.3	3486.4
1712.2	50°	1788.7	1916.2	2080.2	2267.8	2539.2	2630.3	2879.8	3098.4	3082.0
1364.3	52.5°	1439.0	1615.7	1754.1	1925.3	2211.3	2300.6	2493.6	2706.8	2694.0
1023.7	55°	1122.0	1293.3	1460.8	1608.4	1848.8	1981.8	2120.2	2338.8	2335.2
801.5	57.5°	848.8	1036.4	1194.9	1335.2	1526.4	1690.4	1801.5	2000.0	2025.5
548.3	60°	628.4	772.3	943.5	1100.2	1251.4	1420.8	1495.5	1690.4	1701.3
375.2	62.5°	428.1	586.5	754.1	896.2	1009.1	1184.0	1251.4	1411.7	1431.7
240.4	65°	296.9	398.9	590.2	692.2	830.6	980.0	1047.4	1174.9	1214.9
138.4	67.5°	196.7	284.2	460.8	553.7	690.4	792.4	878.0	981.8	1025.5
87.4	70°	107.5	209.5	329.7	437.2	555.6	653.9	737.7	821.5	859.8
40.1	72.5°	72.9	140.3	229.5	346.1	448.1	544.6	619.3	681.2	683.1
23.7	75°	36.4	94.7	174.9	267.8	349.7	444.4	511.8	548.3	504.6
14.6	77.5°	21.9	69.2	142.1	214.9	284.2	358.8	397.1	417.1	346.1
10.9	80°	12.8	49.2	111.1	171.2	196.7	264.1	300.5	306.0	231.3
7.3	82.5°	9.1	36.4	87.4	125.7	120.2	185.8	225.9	218.6	147.5
5.5	85°	5.5	25.5	54.6	78.3	72.9	122.0	131.1	134.8	85.6
3.6	87.5°	3.6	14.6	29.1	41.9	34.6	52.8	52.8	63.8	41.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9843.4
9599.3
9639.4
9522.8
9362.5
9165.8
8934.5
8657.6
8287.9
7929.0
7479.1
7078.4
6604.8
6149.4
5646.7
5253.2
4763.2
4331.5
3903.5
3490.0
3096.6
2721.3
2344.3
2014.6
1717.7
1435.3
1205.8
1020.0
845.2
666.7
471.8
333.3
216.8
136.6
78.3
36.4
0.0

(END OF REPORT)