

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: P638016

Luminaire Tested: **IFLD-S-SA2D-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638016
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10478.7 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

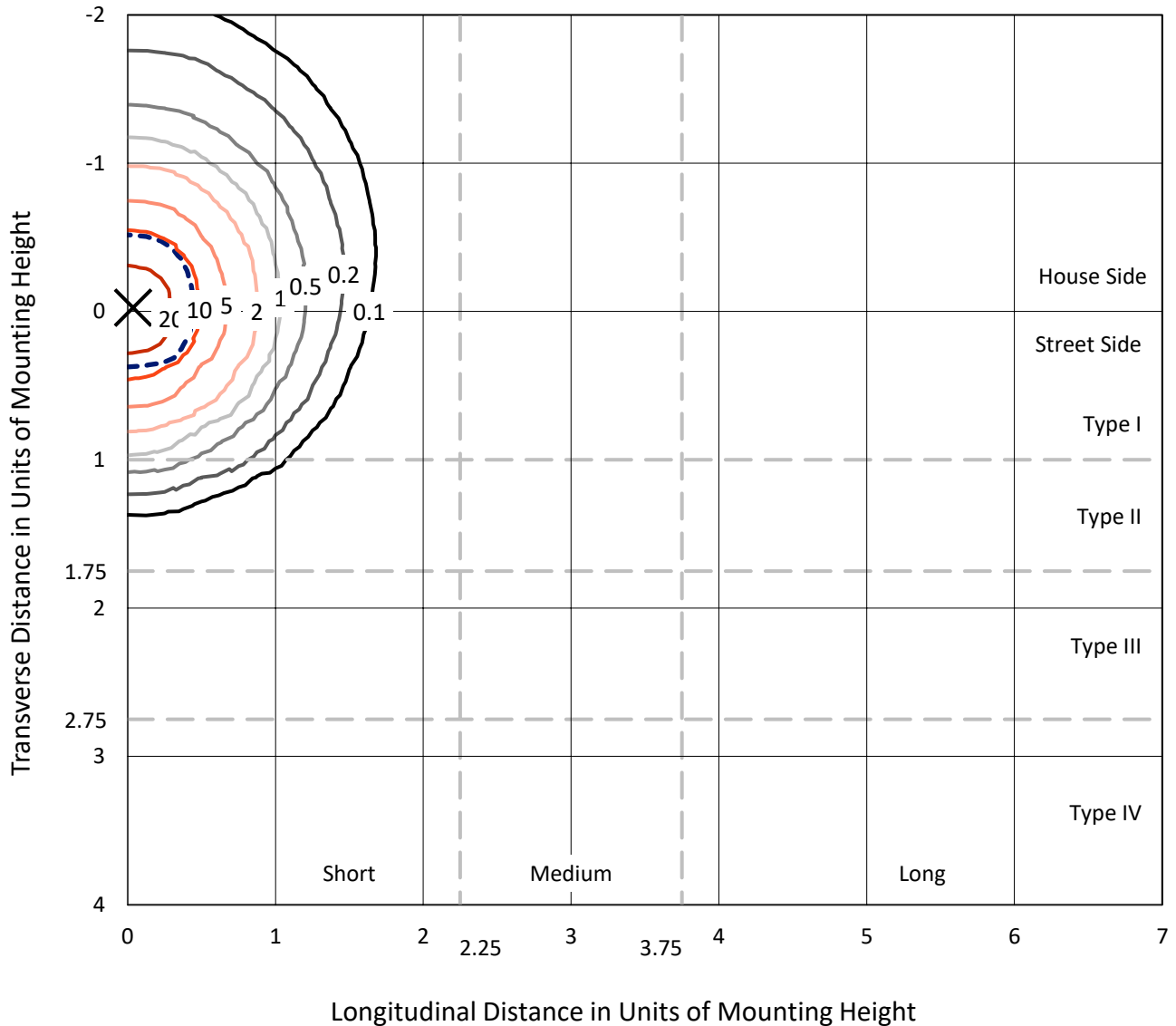
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

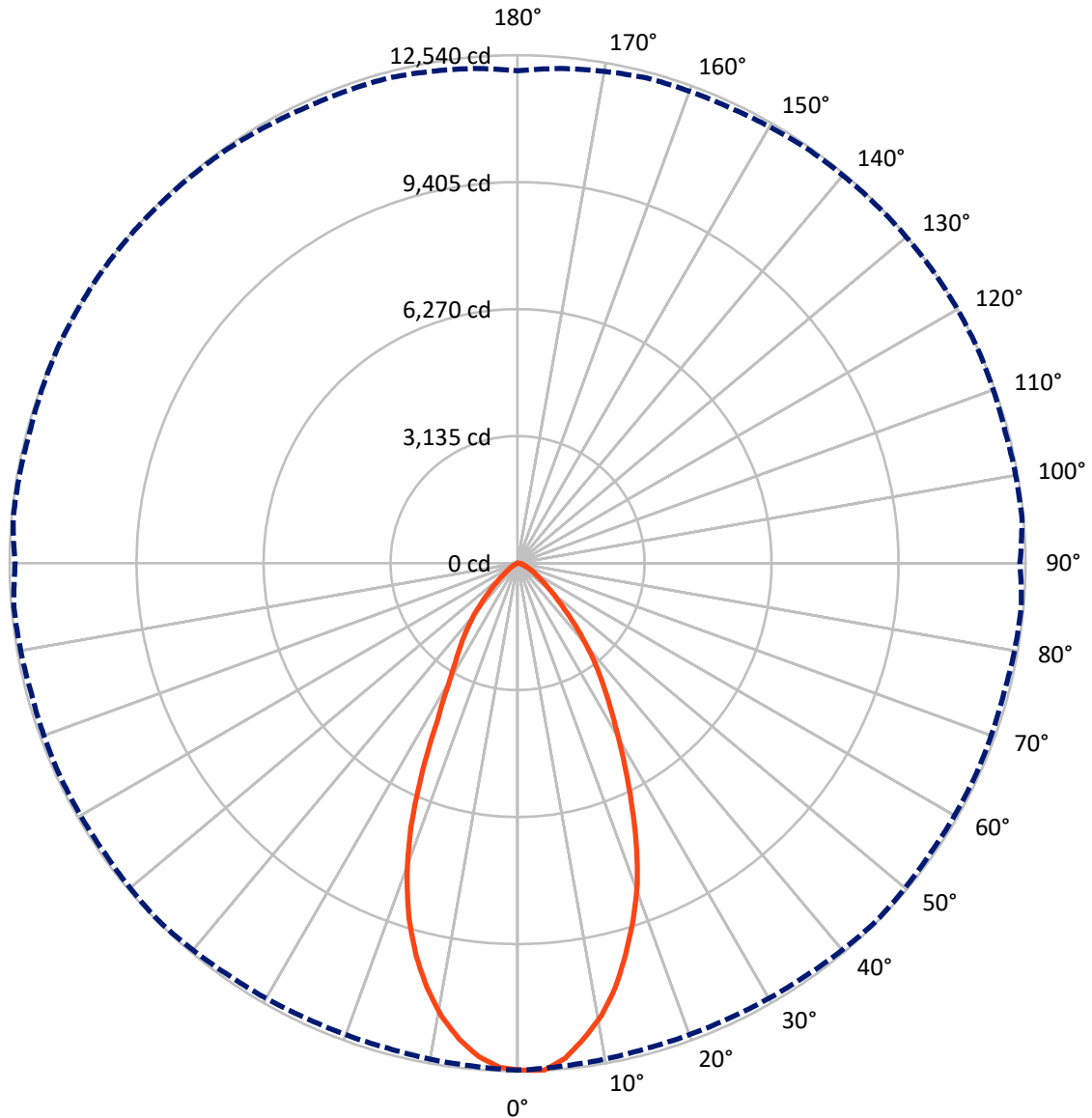
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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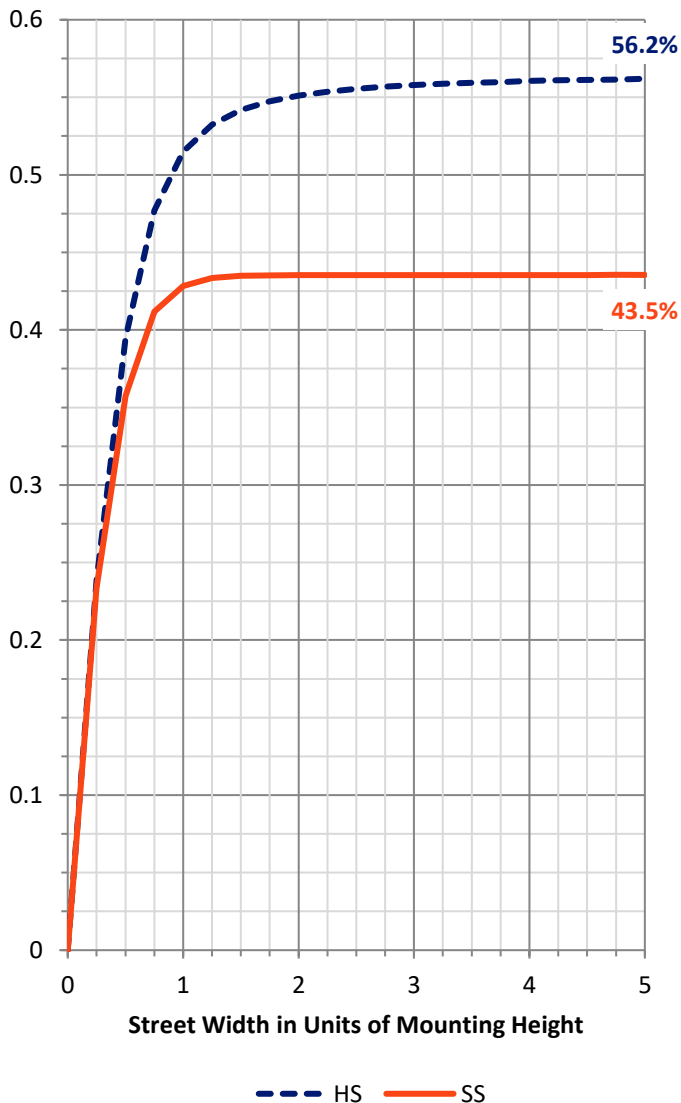
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5946.1	0.0	5946.1
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	4532.7	0.0	4532.7
	% Fixture	43.3	0.0	43.3
Total	Lumens	10478.7	0.0	10478.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1136.8	10.8
10°-20°	2709.9	25.9
20°-30°	2760.0	26.3
30°-40°	2058.1	19.6
40°-50°	1075.2	10.3
50°-60°	452.2	4.3
60°-70°	184.7	1.8
70°-80°	77.7	0.7
80°-90°	23.9	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°	10478.7	100.0
0°-180°	10478.7	100.0



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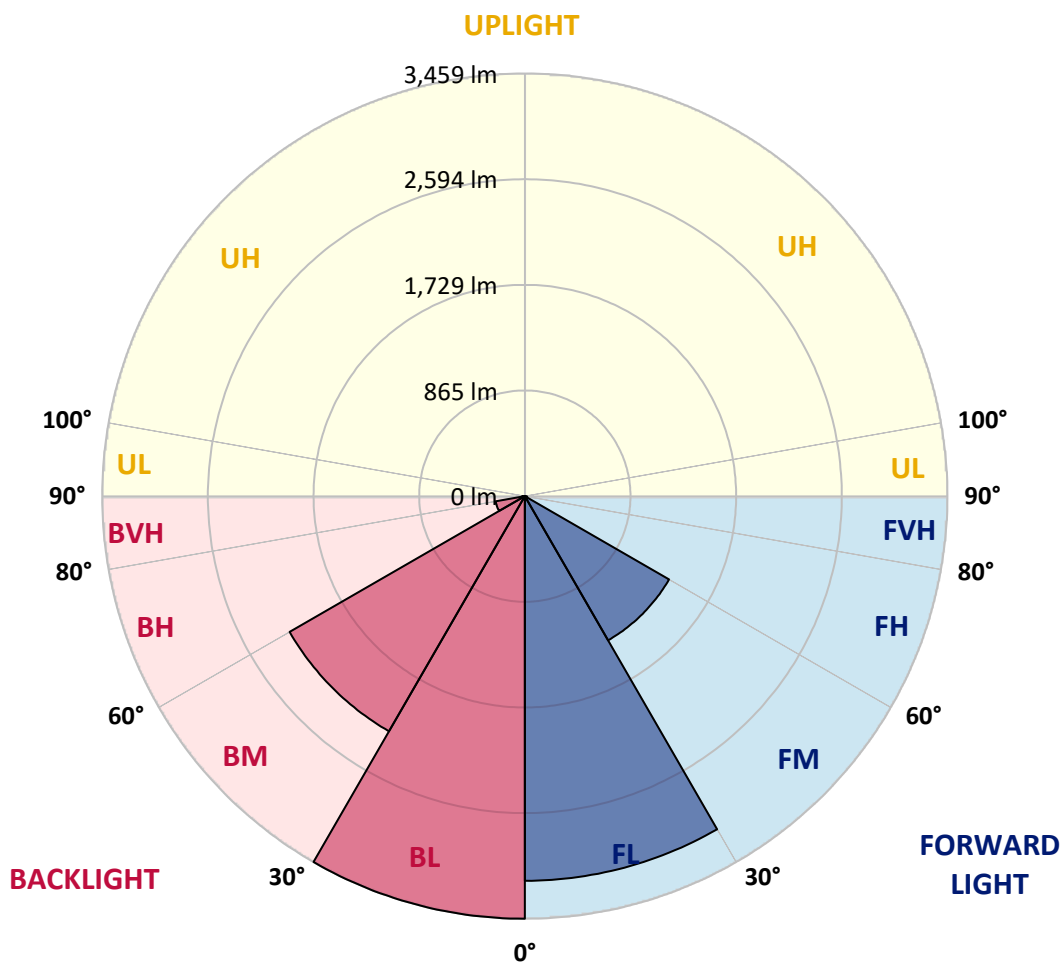
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3147.9	30.0			
FM	(30°-60°)	1362.8	13.0			
FH	(60°-80°)	19.7	0.2			G0/660
FVH	(80°-90°)	2.2	0.0			G0/10
BL	(0°-30°)	3458.8	33.0	B4/5000		
BM	(30°-60°)	2222.8	21.2	B2/2500		
BH	(60°-80°)	242.7	2.3	B1/500		G1/500
BVH	(80°-90°)	21.7	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	12519.6	12519.6	12519.6	12519.6	12519.6	12519.6	12519.6	12519.6	12519.6	12519.6
2.5°	12520.9	12469.8	12397.1	12390.3	12428.0	12510.1	12457.6	12460.3	12428.0	12483.2
5°	12324.4	12275.9	12226.1	12160.2	12215.3	12250.3	12223.4	12193.8	12152.1	12205.9
7.5°	11952.9	11926.0	11851.9	11822.3	11856.0	11895.0	11837.1	11829.0	11771.2	11841.1
10°	11384.8	11374.1	11301.4	11283.9	11313.5	11372.7	11347.2	11341.8	11305.4	11298.7
12.5°	10795.3	10753.5	10663.4	10658.0	10702.4	10791.2	10722.6	10656.6	10676.8	10694.3
15°	9276.9	9232.5	9456.0	9807.3	9991.7	9985.0	10005.1	9925.7	9901.5	9909.6
17.5°	7375.0	7299.6	7380.4	7924.2	8800.4	9309.2	9169.3	8998.3	8906.8	8846.2
20°	6365.4	6369.5	6354.7	6494.7	7041.2	8201.4	8167.8	7838.0	7718.2	7668.4
22.5°	5751.6	5728.8	5696.5	5740.9	5887.6	6568.7	7025.0	6722.1	6680.4	6625.2
25°	5150.0	5150.0	5110.9	5155.3	5197.1	5206.5	5664.2	5788.0	5707.2	5707.2
27.5°	4629.0	4602.1	4584.6	4604.8	4549.6	4284.5	4342.3	4976.3	4921.1	4887.5
30°	4112.2	4104.1	4074.5	4101.4	3896.8	3598.0	3476.8	4199.7	4257.5	4245.4
32.5°	3394.7	3427.0	3558.9	3600.7	3250.7	3009.8	2894.0	3486.3	3717.8	3708.4
35°	2307.1	2334.0	2484.8	2982.8	2694.8	2522.5	2488.8	2772.9	3153.8	3190.1
37.5°	1837.4	1833.3	1876.4	1965.2	2165.8	2124.1	2114.6	2188.7	2572.3	2588.4
40°	1514.3	1508.9	1507.6	1434.9	1385.1	1766.0	1740.4	1696.0	2028.5	2060.8
42.5°	1220.9	1226.2	1230.3	1071.5	998.8	1362.2	1347.4	1301.6	1591.0	1628.7
45°	958.4	957.0	965.1	798.2	778.0	870.9	1006.8	970.5	1200.7	1241.1
47.5°	496.7	514.2	623.2	617.8	627.3	617.8	761.9	752.4	903.2	967.8
50°	333.8	339.2	348.6	350.0	494.0	455.0	516.9	585.5	632.6	732.2
52.5°	258.4	262.5	238.2	223.4	302.9	336.5	339.2	405.2	441.5	542.5
55°	144.0	161.5	173.6	175.0	166.9	249.0	247.7	300.2	328.4	395.7
57.5°	18.8	22.9	35.0	113.1	111.7	138.6	173.6	218.1	234.2	289.4
60°	1.3	2.7	4.0	17.5	74.0	80.8	118.5	136.0	162.9	203.3
62.5°	0.0	0.0	1.3	4.0	14.8	47.1	61.9	71.3	95.6	133.3
65°	0.0	0.0	1.3	2.7	5.4	17.5	24.2	39.0	56.5	82.1
67.5°	0.0	0.0	1.3	2.7	4.0	6.7	10.8	17.5	29.6	49.8
70°	0.0	0.0	1.3	2.7	4.0	5.4	8.1	10.8	16.2	26.9
72.5°	0.0	0.0	1.3	1.3	2.7	6.7	6.7	8.1	10.8	14.8
75°	0.0	0.0	1.3	2.7	4.0	6.7	6.7	6.7	8.1	9.4
77.5°	0.0	0.0	1.3	2.7	4.0	6.7	5.4	6.7	6.7	6.7
80°	0.0	0.0	1.3	2.7	4.0	6.7	8.1	6.7	5.4	5.4
82.5°	0.0	0.0	1.3	4.0	4.0	9.4	9.4	9.4	4.0	4.0
85°	0.0	0.0	2.7	4.0	6.7	10.8	10.8	8.1	4.0	2.7
87.5°	0.0	0.0	1.3	2.7	2.7	5.4	8.1	6.7	2.7	1.3
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°
12519.6	0°	12519.6	12519.6	12519.6	12519.6	12519.6	12519.6	12519.6	12519.6	12519.6
12402.4	2.5°	12502.1	12468.4	12531.7	12539.7	12512.8	12479.2	12401.1	12394.4	12258.4
12127.9	5°	12265.2	12210.0	12250.3	12277.3	12267.8	12231.5	12199.2	12169.6	12047.1
11682.3	7.5°	11823.7	11803.5	11822.3	11842.5	11881.5	11842.5	11829.0	11798.1	11676.9
11243.5	10°	11333.7	11296.0	11367.3	11357.9	11347.2	11336.4	11279.8	11285.2	11142.6
10645.9	12.5°	10732.0	10668.7	10737.4	10745.5	10737.4	10699.7	10636.4	10663.4	10532.8
9838.2	15°	9923.0	9916.3	9966.1	9998.4	10021.3	9980.9	9959.4	9972.8	9894.8
8799.1	17.5°	8929.7	9017.1	9180.0	9235.2	9236.6	9278.3	9266.2	9250.0	9192.1
7648.2	20°	7761.3	7929.5	8179.9	8437.0	8511.0	8476.0	8459.9	8489.5	8403.4
6567.3	22.5°	6683.1	6827.1	7117.9	7493.4	7710.1	7731.7	7727.6	7702.1	7668.4
5701.8	25°	5767.8	5895.7	6174.3	6517.5	6933.5	6995.4	6998.1	6990.0	6960.4
4917.1	27.5°	4995.2	5150.0	5303.4	5610.3	6053.2	6308.9	6276.6	6267.2	6256.4
4254.8	30°	4295.2	4490.4	4634.4	4825.6	5222.7	5568.6	5602.2	5586.1	5560.5
3707.0	32.5°	3740.7	3856.4	4039.5	4168.7	4454.1	4845.8	4975.0	4962.9	4940.0
3213.0	35°	3258.8	3304.5	3448.6	3592.6	3782.4	4162.0	4353.1	4326.2	4322.1
2618.1	37.5°	2684.0	2837.5	2916.9	3062.3	3195.5	3490.3	3754.1	3742.0	3743.3
2105.2	40°	2167.1	2256.0	2413.5	2535.9	2658.4	2873.8	3167.2	3175.3	3172.6
1630.1	42.5°	1663.7	1749.9	1915.4	2048.7	2157.7	2291.0	2570.9	2580.4	2592.5
1269.3	45°	1298.9	1354.1	1475.3	1613.9	1729.7	1810.4	2023.1	2083.7	2085.0
984.0	47.5°	1008.2	1071.5	1157.6	1290.9	1403.9	1461.8	1616.6	1698.7	1694.7
755.1	50°	791.5	849.4	919.3	1024.3	1146.8	1192.6	1307.0	1387.8	1383.7
569.4	52.5°	605.7	679.8	741.7	822.4	942.2	981.3	1063.4	1156.3	1142.8
417.3	55°	459.0	534.4	592.3	659.6	768.6	818.4	874.9	949.0	951.7
323.1	57.5°	345.9	424.0	476.5	545.1	627.3	682.4	725.5	804.9	803.6
220.8	60°	247.7	315.0	378.2	449.6	512.8	576.1	605.7	681.1	683.8
156.1	62.5°	179.0	242.3	302.9	364.8	421.3	483.2	510.2	569.4	577.5
102.3	65°	125.2	169.6	239.6	286.7	350.0	395.7	430.7	481.9	491.3
60.6	67.5°	80.8	122.5	189.8	231.5	289.4	328.4	364.8	405.2	417.3
39.0	70°	48.5	92.9	141.3	185.8	238.2	273.2	308.2	343.2	350.0
18.8	72.5°	31.0	64.6	102.3	150.8	191.1	228.8	259.8	285.4	265.2
12.1	75°	17.5	44.4	80.8	118.5	154.8	191.1	216.7	230.2	184.4
8.1	77.5°	10.8	32.3	66.0	95.6	119.8	153.4	169.6	177.7	131.9
5.4	80°	6.7	24.2	55.2	78.1	78.1	113.1	131.9	138.6	95.6
4.0	82.5°	5.4	17.5	43.1	59.2	52.5	84.8	103.6	105.0	67.3
2.7	85°	4.0	13.5	26.9	39.0	36.3	59.2	60.6	67.3	44.4
2.7	87.5°	2.7	8.1	16.2	22.9	20.2	28.3	32.3	36.3	24.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12519.6
<i>12152.1</i>
11948.8
11651.4
11094.1
10495.1
9800.5
9106.0
8341.4
7603.8
6860.8
6193.1
5528.2
4879.4
4277.7
3700.3
3125.5
2552.1
2050.0
1679.9
1383.7
1144.1
951.7
800.9
677.1
574.8
488.6
415.9
344.6
246.3
175.0
123.8
88.8
61.9
40.4
21.5
0.0

(END OF REPORT)