

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: P637114

Luminaire Tested: **IFLD-S-SA2A-740-U-33-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637114
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-740-U-33-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 3 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9181.3 lumens
Efficiency: N/A
Efficacy: 143.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G1

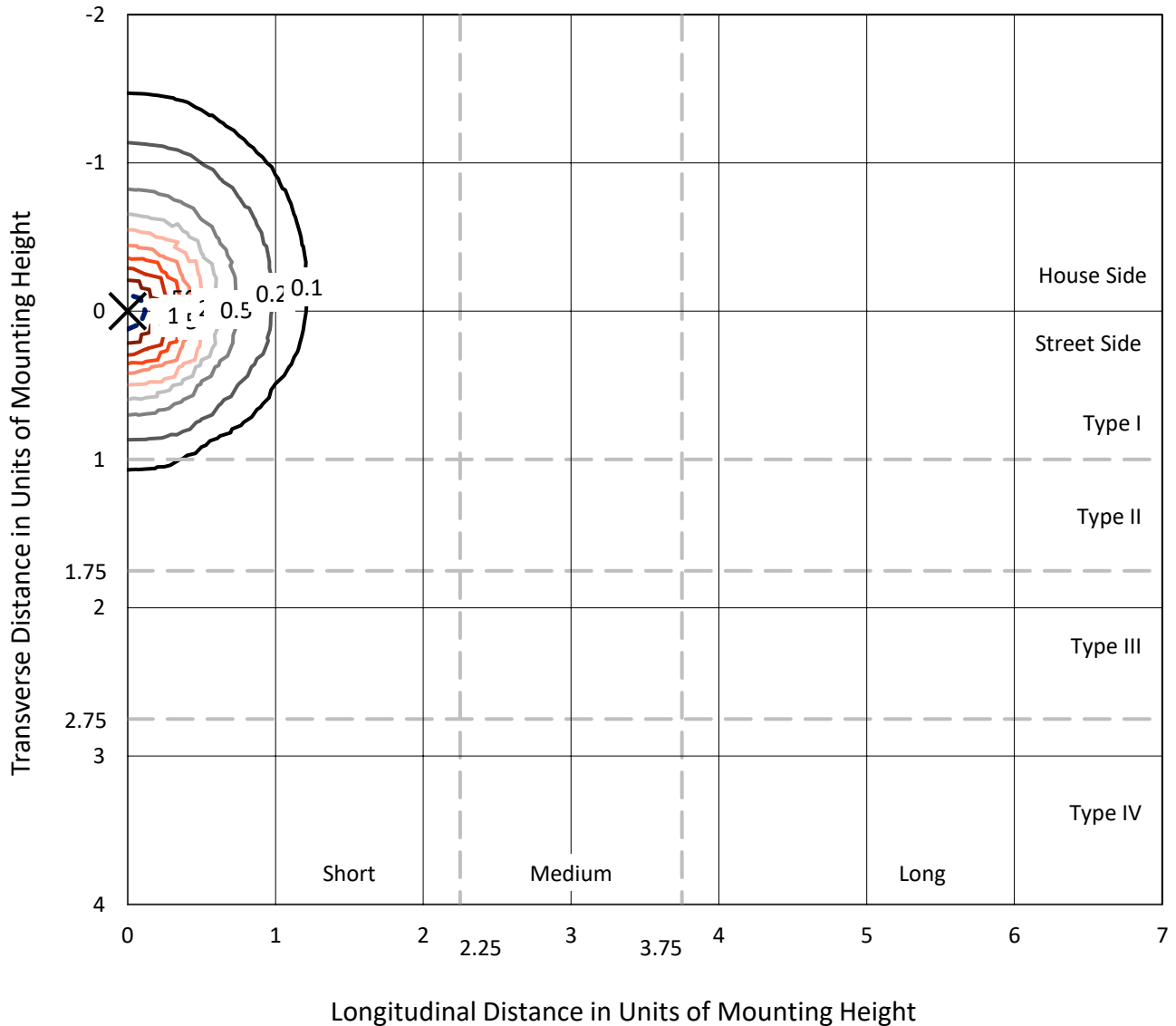
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

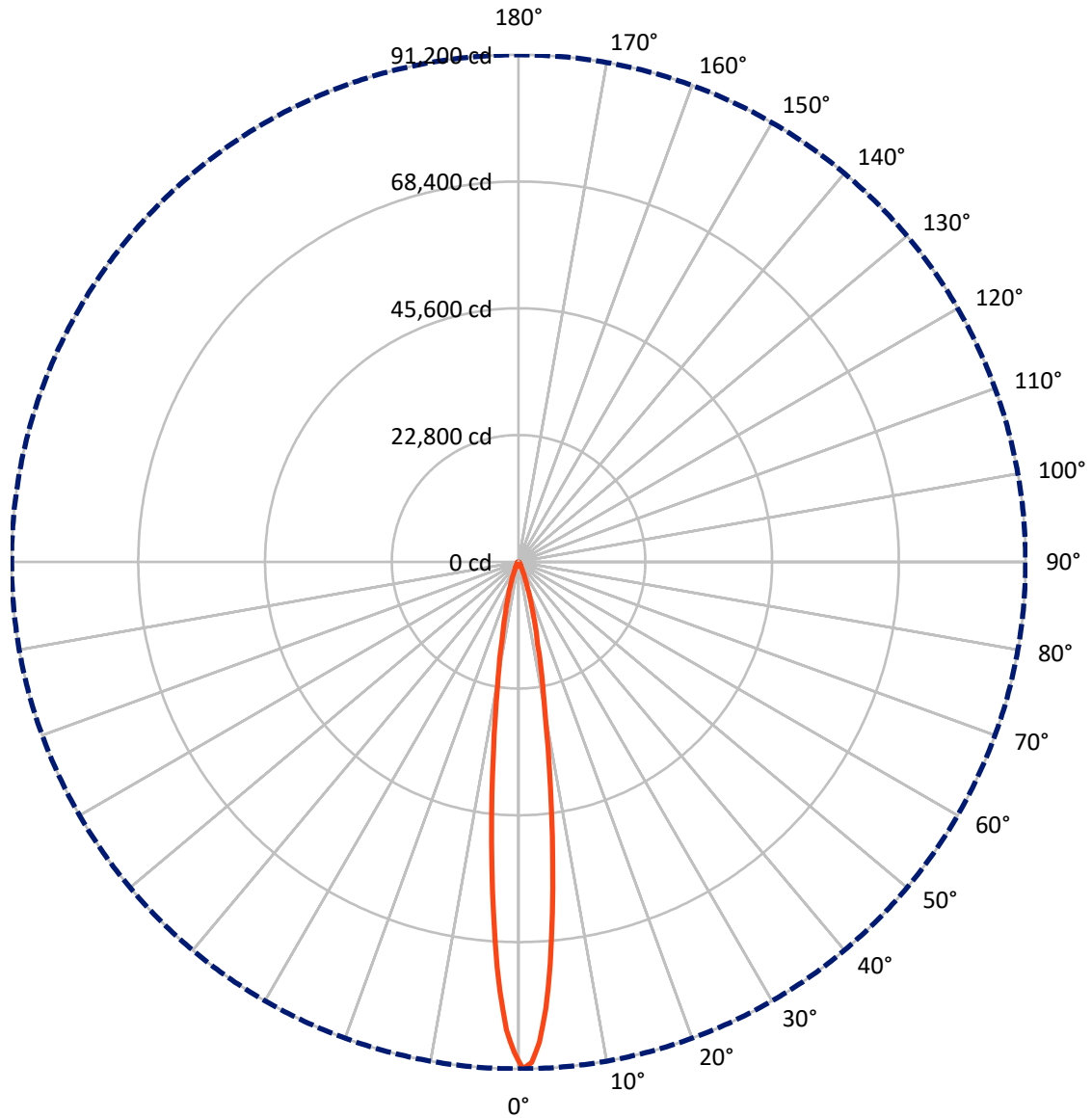
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 228 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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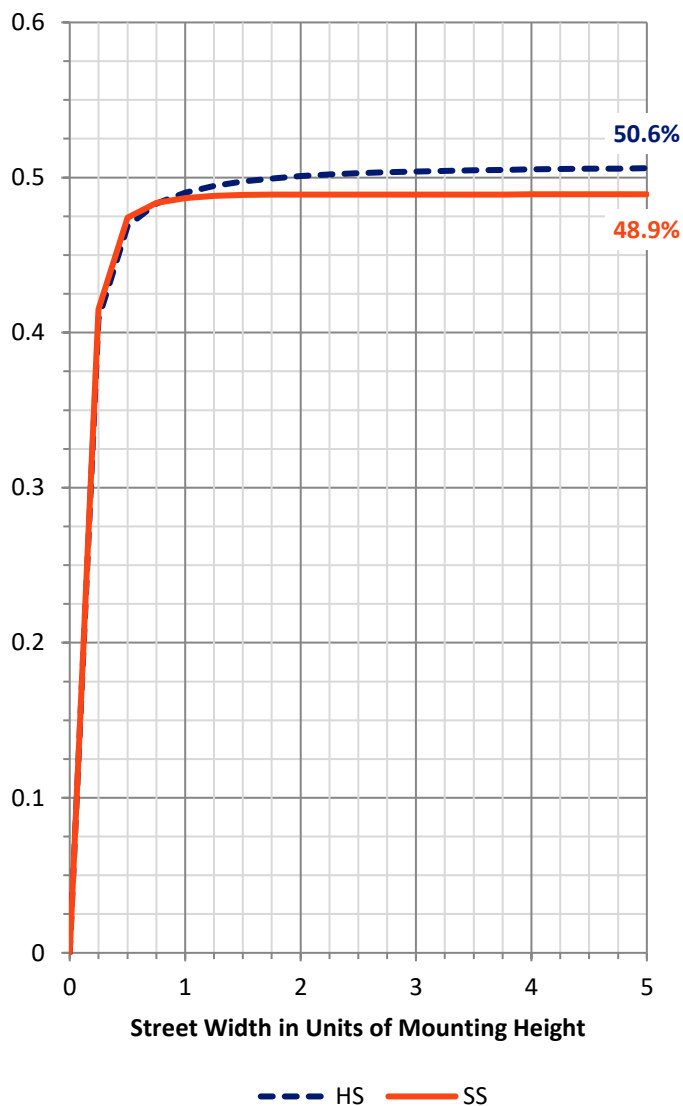
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4702.5	0.0	4702.5
	% Fixture	51.2	0.0	51.2
Street Side	Lumens	4478.8	0.0	4478.8
	% Fixture	48.8	0.0	48.8
Total	Lumens	9181.3	0.0	9181.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4635.0	50.5
10°-20°	2967.3	32.3
20°-30°	891.9	9.7
30°-40°	290.4	3.2
40°-50°	169.0	1.8
50°-60°	112.2	1.2
60°-70°	67.6	0.7
70°-80°	34.7	0.4
80°-90°	13.2	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°	9181.3	100.0
0°-180°	9181.3	100.0

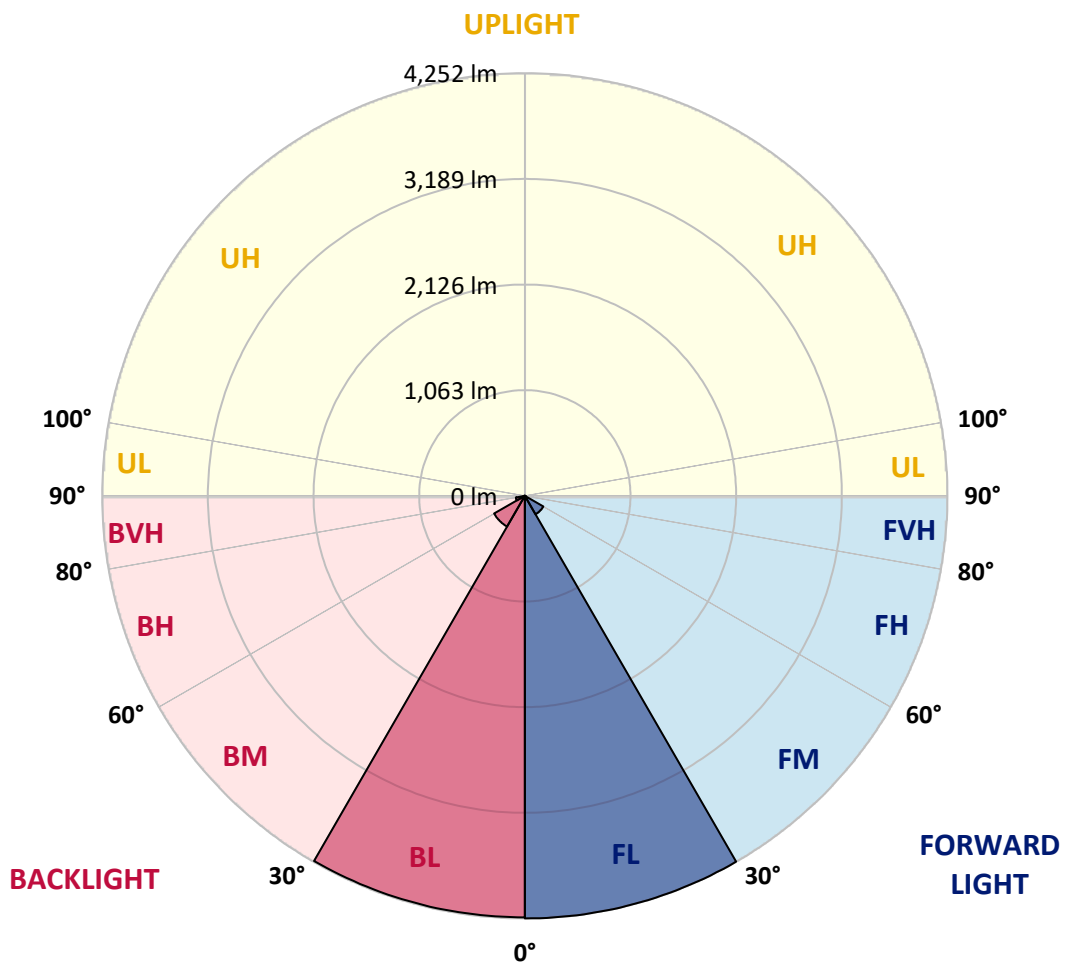


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4252.1	46.3			
FM (30°-60°)	214.6	2.3			
FH (60°-80°)	10.1	0.1			G0/660
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	4242.1	46.2	B4/5000		
BM (30°-60°)	357.0	3.9	B1/1000		
BH (60°-80°)	92.2	1.0	B0/110		G0/660
BVH (80°-90°)	11.2	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 V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	91199.8	91199.8	91199.8	91199.8	91199.8	91199.8	91199.8	91199.8	91199.8	91199.8
1°	90107.8	89832.8	89122.8	89627.8	90071.8	89942.8	89933.8	89885.8	89818.8	90344.8
2°	86505.9	86327.9	85277.9	85710.9	86341.9	85881.9	86169.9	85916.9	85921.9	86549.9
3°	80434.0	80531.0	78856.0	79643.0	80520.0	79405.0	79751.0	80401.0	79720.0	79515.0
4°	72542.1	71700.1	70785.1	71585.1	71812.1	71163.1	71801.1	72597.1	71651.1	71693.1
5°	63532.2	62910.2	61827.2	62321.2	61758.2	61963.2	62919.2	63247.2	62587.2	61756.2
6°	54268.3	53826.3	52472.3	53184.3	52984.3	52868.3	54075.3	53075.3	53435.3	52932.3
7°	45140.4	44314.4	43649.4	44331.4	44375.4	44026.4	45593.4	45411.4	44756.4	44604.4
8°	37399.5	36575.5	36012.5	36520.5	36852.5	36304.5	37041.5	37525.5	37013.5	37059.5
9°	30164.6	30019.6	29236.6	29900.6	30261.6	29674.6	30490.6	30665.6	30186.6	30419.6
10°	24767.7	24598.7	23973.7	24242.7	24840.7	24140.7	24923.7	24980.7	24598.7	24707.7
12.5°	15305.8	15237.8	15220.8	15259.8	15251.8	15375.8	15575.8	15347.8	15317.8	14940.8
15°	9892.9	9993.9	9889.9	10089.9	10118.9	10235.9	10113.9	9929.9	9578.9	9404.9
17.5°	6173.9	6302.9	6480.9	6773.9	7066.9	7100.9	6938.9	6722.9	6552.9	6366.9
20°	3552.0	3615.0	3588.0	3938.9	4696.9	4902.9	4693.9	4466.9	4261.9	4073.9
22.5°	2207.0	2184.0	2226.0	2344.0	2591.0	3228.0	3057.0	2830.0	2681.0	2526.0
25°	1353.0	1378.0	1362.0	1427.0	1538.0	1808.0	1847.0	1749.0	1673.0	1593.0
27.5°	871.0	871.0	878.0	914.0	990.0	981.0	1189.0	1113.0	1072.0	1033.0
30°	605.0	607.0	607.0	628.0	645.0	615.0	669.0	767.0	748.0	718.0
32.5°	449.0	455.0	460.0	471.0	457.0	425.0	438.0	552.0	541.0	530.0
35°	342.0	347.0	359.0	365.0	345.0	325.0	313.0	406.0	411.0	408.0
37.5°	249.0	252.0	274.0	297.0	274.0	256.0	249.0	312.0	336.0	333.0
40°	191.0	192.0	196.0	222.0	222.0	208.0	210.0	233.0	275.0	275.0
42.5°	164.0	164.0	168.0	164.0	165.0	180.0	185.0	188.0	233.0	233.0
45°	142.0	142.0	144.0	134.0	124.0	155.0	159.0	160.0	196.0	201.0
47.5°	119.0	119.0	123.0	110.0	105.0	123.0	134.0	137.0	169.0	173.0
50°	88.0	89.0	101.0	90.0	93.0	95.0	116.0	118.0	143.0	152.0
52.5°	59.0	59.0	61.0	70.0	81.0	78.0	94.0	101.0	114.0	126.0
55°	48.0	48.0	47.0	45.0	60.0	65.0	69.0	84.0	93.0	108.0
57.5°	33.0	35.0	32.0	37.0	39.0	49.0	52.0	66.0	71.0	91.0
60°	4.0	5.0	7.0	27.0	26.0	33.0	39.0	52.0	58.0	70.0
62.5°	1.0	1.0	2.0	5.0	18.0	22.0	31.0	36.0	42.0	54.0
65°	0.0	0.0	1.0	2.0	4.0	12.0	16.0	21.0	30.0	38.0
67.5°	0.0	0.0	1.0	2.0	2.0	5.0	8.0	13.0	16.0	28.0
70°	0.0	0.0	1.0	2.0	2.0	4.0	5.0	6.0	11.0	15.0
72.5°	0.0	0.0	1.0	2.0	3.0	4.0	5.0	5.0	5.0	10.0
75°	0.0	0.0	1.0	2.0	3.0	4.0	5.0	5.0	4.0	4.0
77.5°	0.0	0.0	1.0	2.0	4.0	5.0	6.0	5.0	3.0	3.0
80°	0.0	0.0	1.0	3.0	5.0	7.0	8.0	6.0	3.0	2.0
82.5°	0.0	0.0	2.0	4.0	6.0	8.0	11.0	9.0	4.0	2.0
85°	0.0	0.0	1.0	3.0	6.0	8.0	16.0	11.0	5.0	1.0
87.5°	0.0	0.0	0.0	1.0	1.0	2.0	6.0	4.0	2.0	1.0
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°
91199.8	0°	91199.8	91199.8	91199.8	91199.8	91199.8	91199.8	91199.8	91199.8	91199.8
89737.8	1°	90364.8	90427.8	90221.8	90540.8	90428.8	89772.8	89555.8	89298.8	88928.8
86180.9	2°	85916.9	86237.9	86253.9	86607.9	86602.9	85837.9	85600.9	86037.9	85184.9
79931.0	3°	79689.0	80063.0	79726.0	80355.0	80166.0	79238.0	78997.0	79493.0	78873.0
72025.1	4°	71810.1	71739.1	71623.1	71265.1	71706.1	71073.1	70596.1	71269.1	69943.1
62858.2	5°	62732.2	62574.2	62348.2	62242.2	62570.2	62165.2	61184.2	62167.2	59802.2
53842.3	6°	53908.3	53228.3	53195.3	53136.3	53169.3	52035.3	52103.3	52835.3	50867.3
44081.4	7°	44547.4	44672.4	44417.4	44826.4	44514.4	43746.4	43450.4	44221.4	42830.4
37261.5	8°	37001.5	36843.5	36648.5	37259.5	36718.5	36214.5	35869.5	36478.5	35445.5
30457.6	9°	30400.6	30127.6	29929.6	29898.6	29982.6	29036.6	29228.6	29689.6	29067.6
24767.7	10°	24776.7	24328.7	24437.7	24466.7	24374.7	23754.7	23760.7	23919.7	23171.7
15190.8	12.5°	15136.8	14916.8	14971.8	15001.8	15188.8	14970.8	14662.8	14440.8	14328.8
9577.9	15°	9513.9	9355.9	9678.9	9895.9	9851.9	9657.9	9512.9	9311.9	9149.9
6366.9	17.5°	6307.9	6514.9	6515.9	6713.9	6733.9	6539.9	6427.9	6246.9	6254.9
4140.9	20°	4125.9	4211.9	4390.9	4530.9	4611.9	4463.9	4329.9	4205.9	4153.9
2582.0	22.5°	2582.0	2732.0	2844.0	3026.0	3100.0	2992.0	2897.0	2796.0	2734.0
1612.0	25°	1585.0	1692.0	1785.0	1943.0	2044.0	1992.0	1905.0	1834.0	1801.0
1041.0	27.5°	1057.0	1102.0	1148.0	1257.0	1362.0	1333.0	1298.0	1255.0	1240.0
734.0	30°	745.0	749.0	798.0	859.0	929.0	947.0	931.0	909.0	892.0
539.0	32.5°	549.0	565.0	588.0	626.0	673.0	716.0	708.0	698.0	690.0
412.0	35°	424.0	448.0	467.0	496.0	521.0	562.0	569.0	566.0	560.0
339.0	37.5°	346.0	367.0	386.0	403.0	424.0	452.0	474.0	475.0	469.0
280.0	40°	287.0	306.0	331.0	344.0	359.0	380.0	407.0	409.0	407.0
237.0	42.5°	242.0	260.0	285.0	301.0	312.0	332.0	359.0	363.0	359.0
203.0	45°	208.0	219.0	245.0	264.0	275.0	288.0	317.0	321.0	320.0
175.0	47.5°	181.0	192.0	208.0	235.0	245.0	257.0	280.0	287.0	287.0
155.0	50°	159.0	170.0	184.0	208.0	223.0	233.0	252.0	262.0	262.0
135.0	52.5°	141.0	152.0	167.0	186.0	203.0	212.0	230.0	243.0	243.0
110.0	55°	118.0	137.0	148.0	165.0	188.0	196.0	210.0	227.0	227.0
96.0	57.5°	103.0	119.0	135.0	149.0	172.0	182.0	196.0	212.0	214.0
76.0	60°	87.0	102.0	121.0	133.0	155.0	168.0	183.0	198.0	202.0
58.0	62.5°	69.0	89.0	102.0	119.0	140.0	157.0	169.0	184.0	190.0
45.0	65°	51.0	73.0	88.0	106.0	126.0	144.0	154.0	170.0	174.0
32.0	67.5°	37.0	57.0	75.0	92.0	111.0	129.0	139.0	153.0	156.0
20.0	70°	29.0	42.0	62.0	77.0	97.0	112.0	123.0	132.0	135.0
13.0	72.5°	17.0	32.0	50.0	67.0	85.0	95.0	103.0	111.0	113.0
6.0	75°	11.0	25.0	41.0	56.0	69.0	78.0	85.0	92.0	93.0
3.0	77.5°	7.0	18.0	33.0	47.0	53.0	64.0	70.0	74.0	72.0
2.0	80°	4.0	14.0	29.0	38.0	43.0	50.0	56.0	61.0	56.0
2.0	82.5°	3.0	12.0	24.0	32.0	32.0	40.0	43.0	43.0	41.0
1.0	85°	2.0	10.0	19.0	30.0	24.0	30.0	28.0	28.0	28.0
1.0	87.5°	2.0	7.0	9.0	13.0	11.0	13.0	13.0	15.0	15.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
91199.8
88280.9
84186.9
77290.0
68833.1
59577.2
50713.3
42124.5
34739.5
28249.6
22837.7
14305.8
9208.9
6201.9
4162.9
2742.0
1793.0
1230.0
894.0
690.0
556.0
468.0
406.0
360.0
320.0
288.0
263.0
243.0
228.0
213.0
202.0
191.0
173.0
154.0
135.0
113.0
92.0
72.0
55.0
40.0
27.0
15.0
0.0

(END OF REPORT)