

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: P636596

Luminaire Tested: **IFLD-S-SA2E-930-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636596
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-930-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9223 lumens
Efficiency: N/A
Efficacy: 59.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

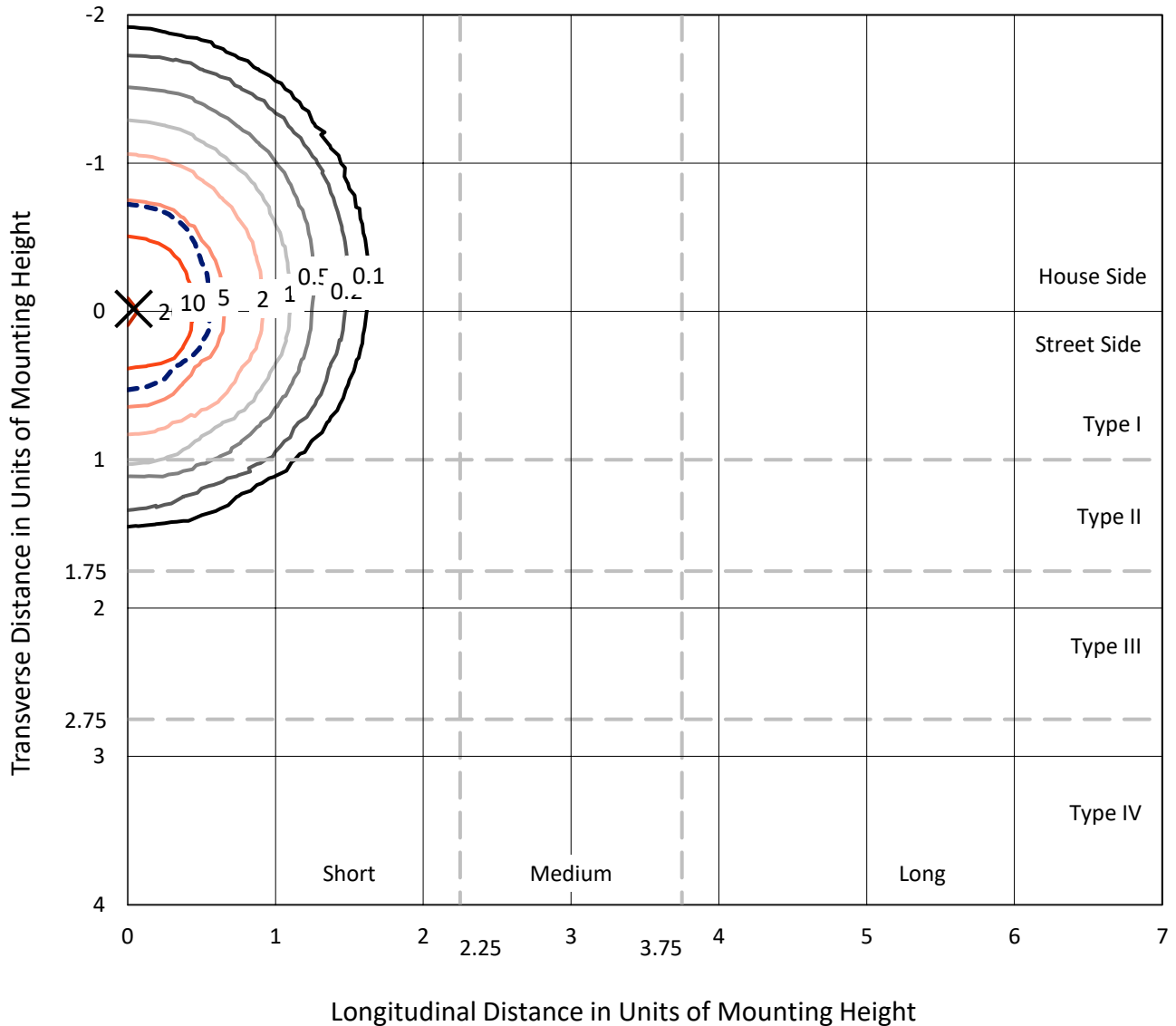
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

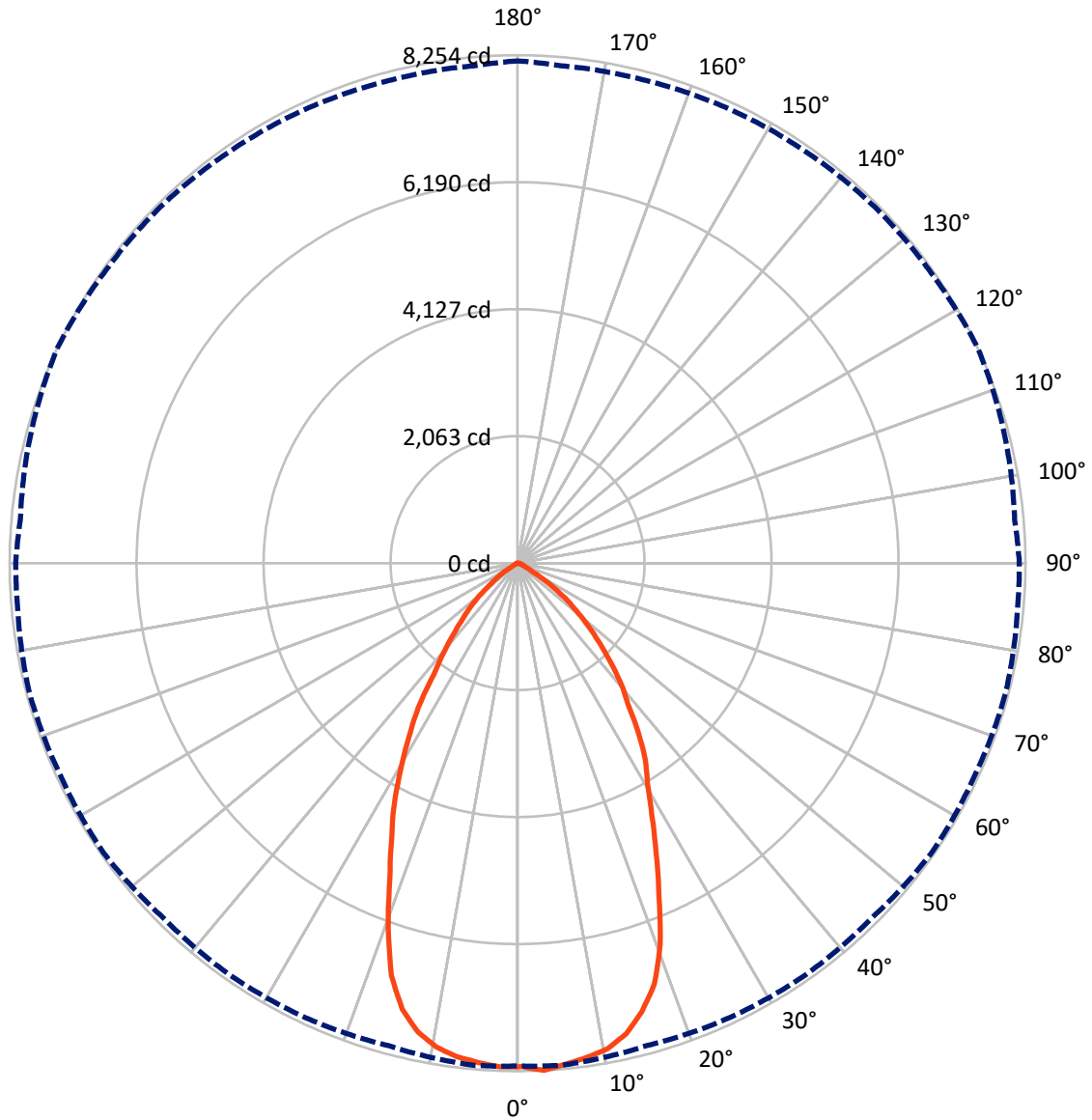
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.5 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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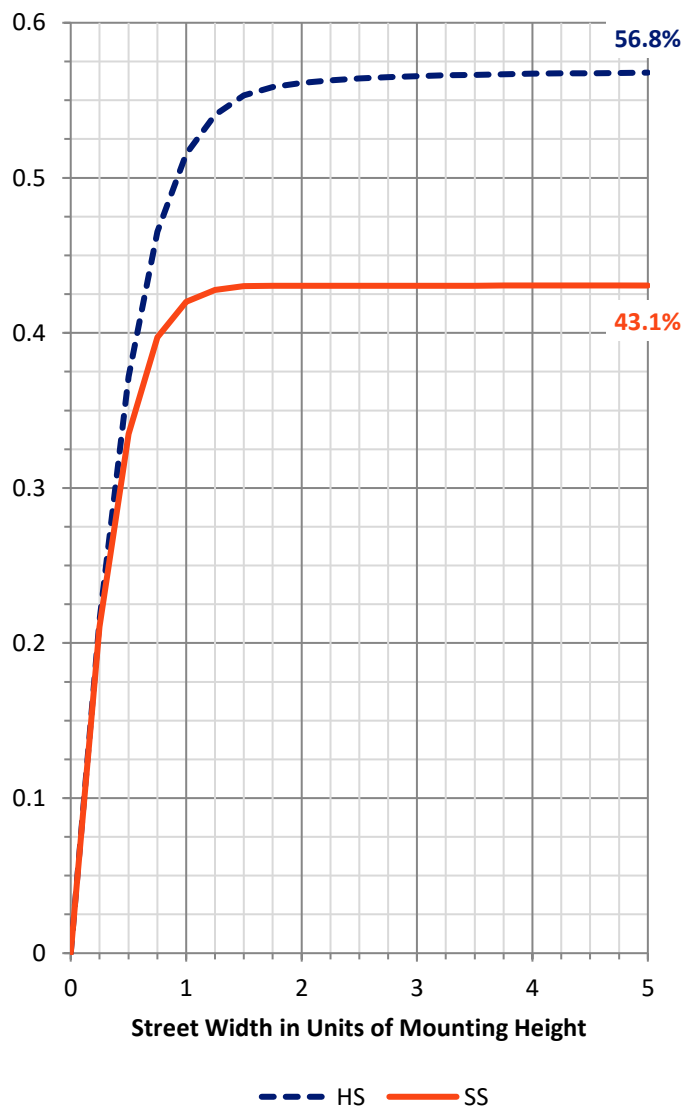
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5278.2	0.0	5278.2
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	3944.8	0.0	3944.8
	% Fixture	42.8	0.0	42.8
Total	Lumens	9223.0	0.0	9223.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	770.7	8.4
10°-20°	2043.6	22.2
20°-30°	2337.5	25.3
30°-40°	2003.2	21.7
40°-50°	1324.6	14.4
50°-60°	578.0	6.3
60°-70°	113.6	1.2
70°-80°	41.0	0.4
80°-90°	10.9	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°	9223.0	100.0
0°-180°	9223.0	100.0



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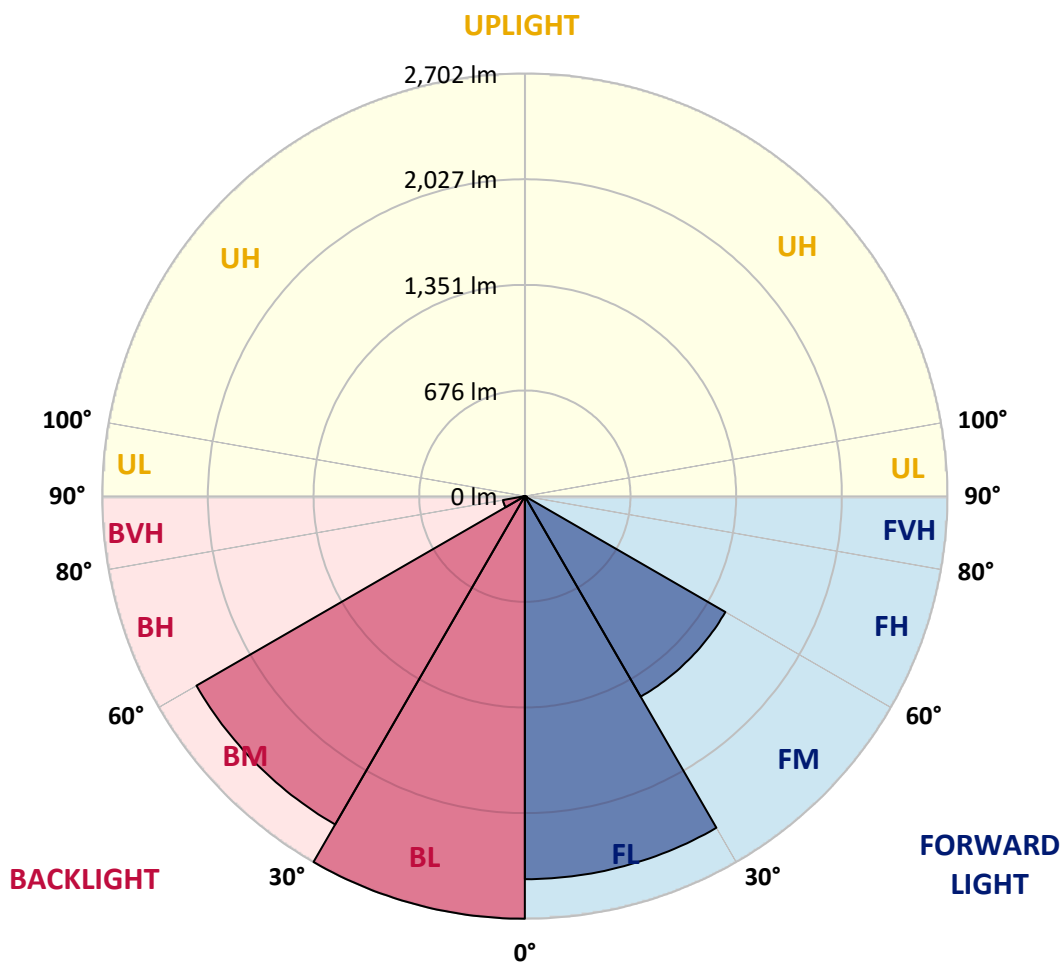
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2449.4	26.6			
FM (30°-60°)	1481.0	16.1			
FH (60°-80°)	12.6	0.1			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	2702.4	29.3	B4/5000		
BM (30°-60°)	2424.7	26.3	B2/2500		
BH (60°-80°)	142.0	1.5	B1/500		G1/500
BVH (80°-90°)	9.1	0.1			G0/10
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°	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1
2.5°	8171.3	8190.9	8116.4	8149.8	8163.5	8145.9	8210.6	8190.9	8206.6	8157.6
5°	8171.3	8190.9	8104.7	8120.4	8124.3	8091.0	8161.5	8138.0	8140.0	8089.0
7.5°	8120.4	8143.9	8065.5	8077.2	8079.2	8051.8	8112.5	8079.2	8067.4	8014.5
10°	7983.1	7996.9	7926.3	7955.7	7983.1	7957.6	8010.6	7973.3	7973.3	7926.3
12.5°	7765.5	7791.0	7712.6	7747.9	7771.4	7742.0	7802.8	7789.0	7791.0	7744.0
15°	7369.5	7281.3	7375.4	7446.0	7447.9	7442.0	7498.9	7485.2	7495.0	7424.4
17.5°	5444.3	5422.7	5532.5	6365.7	6985.2	7069.5	7079.3	7004.8	6971.5	6902.9
20°	5044.4	5060.0	5036.5	5040.4	5528.6	6542.2	6481.4	6297.1	6212.8	6144.2
22.5°	4752.2	4726.8	4711.1	4701.3	4715.0	5375.7	5812.9	5534.5	5489.4	5456.1
25°	4434.6	4422.9	4403.3	4399.3	4391.5	4279.8	4909.1	4934.6	4862.0	4820.9
27.5°	4138.6	4130.8	4109.2	4107.2	4017.1	3746.5	3815.1	4420.9	4401.3	4385.6
30°	3823.0	3807.3	3795.5	3795.5	3523.0	3244.6	3132.9	3854.3	3854.3	3840.6
32.5°	3479.9	3466.2	3470.1	3423.0	3097.6	2842.7	2666.3	3327.0	3532.8	3521.0
35°	2127.1	2123.2	2521.2	3044.6	2662.4	2431.0	2419.3	2846.6	3146.6	3178.0
37.5°	1893.8	1882.1	1888.0	1921.3	2280.1	2187.9	2184.0	2256.5	2678.0	2693.7
40°	1699.7	1691.9	1686.0	1566.4	1452.7	1952.7	1938.9	1891.9	2287.9	2315.3
42.5°	1515.5	1507.6	1507.6	1339.0	1154.7	1605.6	1611.5	1556.6	1929.1	1938.9
45°	1325.3	1319.4	1286.1	1068.5	1015.5	1066.5	1335.1	1272.4	1531.1	1633.1
47.5°	625.4	621.5	899.9	888.1	884.2	852.8	1019.5	1054.7	1215.5	1317.5
50°	501.9	498.0	474.4	417.6	727.3	647.0	735.2	811.6	862.6	956.7
52.5°	415.6	411.7	362.7	321.5	403.9	472.5	439.2	543.1	541.1	643.0
55°	272.5	252.9	278.4	262.7	211.7	343.1	335.2	411.7	401.9	490.1
57.5°	5.9	5.9	13.7	149.0	133.3	145.1	192.1	235.3	264.7	290.2
60°	2.0	2.0	3.9	7.8	54.9	60.8	74.5	86.3	121.6	151.0
62.5°	0.0	0.0	2.0	3.9	7.8	31.4	35.3	41.2	56.9	78.4
65°	0.0	0.0	0.0	2.0	3.9	7.8	11.8	25.5	35.3	45.1
67.5°	0.0	0.0	0.0	2.0	2.0	3.9	7.8	11.8	15.7	31.4
70°	0.0	0.0	0.0	2.0	2.0	3.9	5.9	7.8	11.8	15.7
72.5°	0.0	0.0	0.0	2.0	2.0	5.9	3.9	5.9	7.8	9.8
75°	0.0	0.0	0.0	2.0	2.0	2.0	3.9	5.9	5.9	7.8
77.5°	0.0	0.0	0.0	2.0	3.9	3.9	3.9	3.9	3.9	5.9
80°	0.0	0.0	0.0	2.0	2.0	3.9	5.9	7.8	3.9	3.9
82.5°	0.0	0.0	0.0	3.9	2.0	7.8	11.8	9.8	3.9	2.0
85°	0.0	0.0	0.0	2.0	7.8	9.8	9.8	5.9	2.0	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	3.9	5.9	5.9	2.0	2.0
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°
8183.1	0°	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1	8183.1
8153.7	2.5°	8108.6	8185.1	8253.7	8210.6	8194.9	8163.5	8140.0	8114.5	8112.5
8083.1	5°	8038.0	8110.6	8177.2	8126.2	8130.2	8114.5	8098.8	8092.9	8096.8
8010.6	7.5°	7977.3	8038.0	8110.6	8067.4	8079.2	8069.4	8061.6	8049.8	8067.4
7916.5	10°	7885.1	7940.0	8024.3	7983.1	7977.3	7967.4	7959.6	7938.0	7947.8
7745.9	12.5°	7683.2	7751.8	7847.9	7800.8	7816.5	7789.0	7777.3	7763.6	7765.5
7449.9	15°	7408.7	7461.6	7559.7	7522.4	7534.2	7516.5	7516.5	7516.5	7530.3
6912.7	17.5°	6930.3	7038.2	7193.1	7146.0	7163.6	7167.6	7163.6	7177.4	7195.0
6148.1	20°	6152.0	6336.3	6618.6	6710.8	6748.0	6750.0	6722.5	6755.9	6791.2
5432.5	22.5°	5436.5	5630.5	5879.5	6132.4	6289.3	6281.4	6285.3	6306.9	6344.2
4795.4	25°	4816.9	5003.2	5228.6	5454.1	5797.2	5867.8	5869.7	5889.3	5918.7
4360.1	27.5°	4369.9	4442.5	4648.3	4875.7	5244.3	5469.8	5458.0	5475.7	5507.0
3815.1	30°	3830.8	4109.2	4156.2	4295.4	4613.0	5026.7	5028.7	5048.3	5079.6
3493.6	32.5°	3483.8	3668.1	3813.2	3817.1	4087.6	4513.1	4597.4	4617.0	4638.5
3160.3	35°	3158.4	3179.9	3376.0	3430.9	3587.7	4009.2	4158.2	4170.0	4205.3
2687.8	37.5°	2732.9	2860.4	2915.3	3111.3	3119.1	3460.3	3756.3	3744.5	3772.0
2313.4	40°	2342.8	2464.3	2603.5	2746.7	2766.3	3021.1	3348.5	3360.3	3372.1
1919.3	42.5°	1935.0	2089.9	2233.0	2329.1	2462.4	2609.4	2921.1	2976.0	3003.5
1644.9	45°	1674.3	1717.4	1888.0	2029.1	2164.4	2233.0	2525.1	2625.1	2642.7
1301.8	47.5°	1319.4	1464.5	1580.2	1699.7	1868.4	1929.1	2140.9	2280.1	2293.8
966.5	50°	1019.5	1123.4	1282.2	1390.0	1586.0	1619.4	1764.4	1944.8	1962.5
647.0	52.5°	729.3	870.5	1025.3	1129.2	1317.5	1360.6	1468.4	1640.9	1652.7
496.0	55°	523.5	615.6	743.0	892.0	1029.3	1125.3	1199.8	1364.5	1380.2
325.4	57.5°	356.8	443.1	496.0	645.0	727.3	831.2	892.0	1017.5	1029.3
154.9	60°	170.6	211.7	252.9	327.4	380.3	468.6	507.8	558.7	572.5
94.1	62.5°	109.8	129.4	164.7	196.0	247.0	301.9	317.6	360.7	376.4
58.8	65°	72.5	92.1	129.4	137.2	188.2	231.3	250.9	282.3	300.0
35.3	67.5°	41.2	64.7	96.1	113.7	149.0	190.2	211.7	239.2	254.9
23.5	70°	27.4	52.9	76.5	94.1	117.6	152.9	180.4	203.9	213.7
11.8	72.5°	15.7	33.3	52.9	74.5	94.1	127.4	152.9	172.5	113.7
7.8	75°	9.8	25.5	45.1	62.7	78.4	101.9	123.5	121.6	51.0
5.9	77.5°	7.8	19.6	39.2	52.9	64.7	70.6	88.2	100.0	39.2
3.9	80°	5.9	15.7	35.3	45.1	25.5	51.0	68.6	74.5	27.4
3.9	82.5°	3.9	9.8	29.4	31.4	17.6	37.2	54.9	49.0	19.6
2.0	85°	2.0	5.9	9.8	17.6	15.7	17.6	13.7	19.6	13.7
2.0	87.5°	2.0	3.9	7.8	7.8	7.8	5.9	7.8	7.8	7.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8183.1
8159.6
8145.9
8116.4
7994.9
7822.4
7536.1
7253.8
6814.7
6350.0
5969.7
5536.4
5134.5
4687.5
4242.5
3805.3
3409.3
3042.7
2685.9
2327.1
1987.9
1674.3
1393.9
1052.8
588.1
380.3
300.0
252.9
211.7
92.1
51.0
39.2
29.4
19.6
13.7
7.8
0.0

(END OF REPORT)