

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: P636607

Luminaire Tested: **IFLD-M-SA4A-930-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636607
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-930-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9410.5 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G1

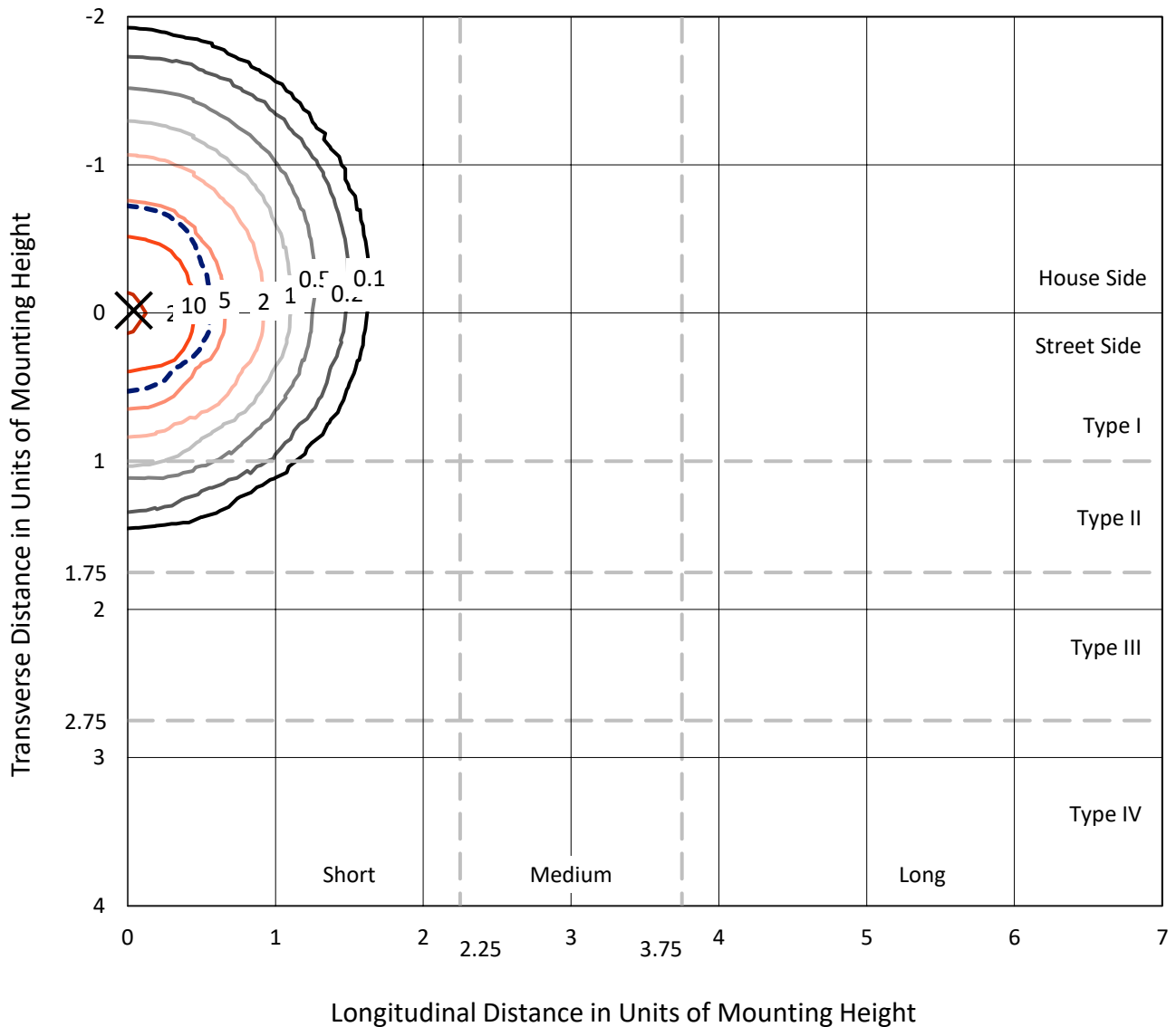
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

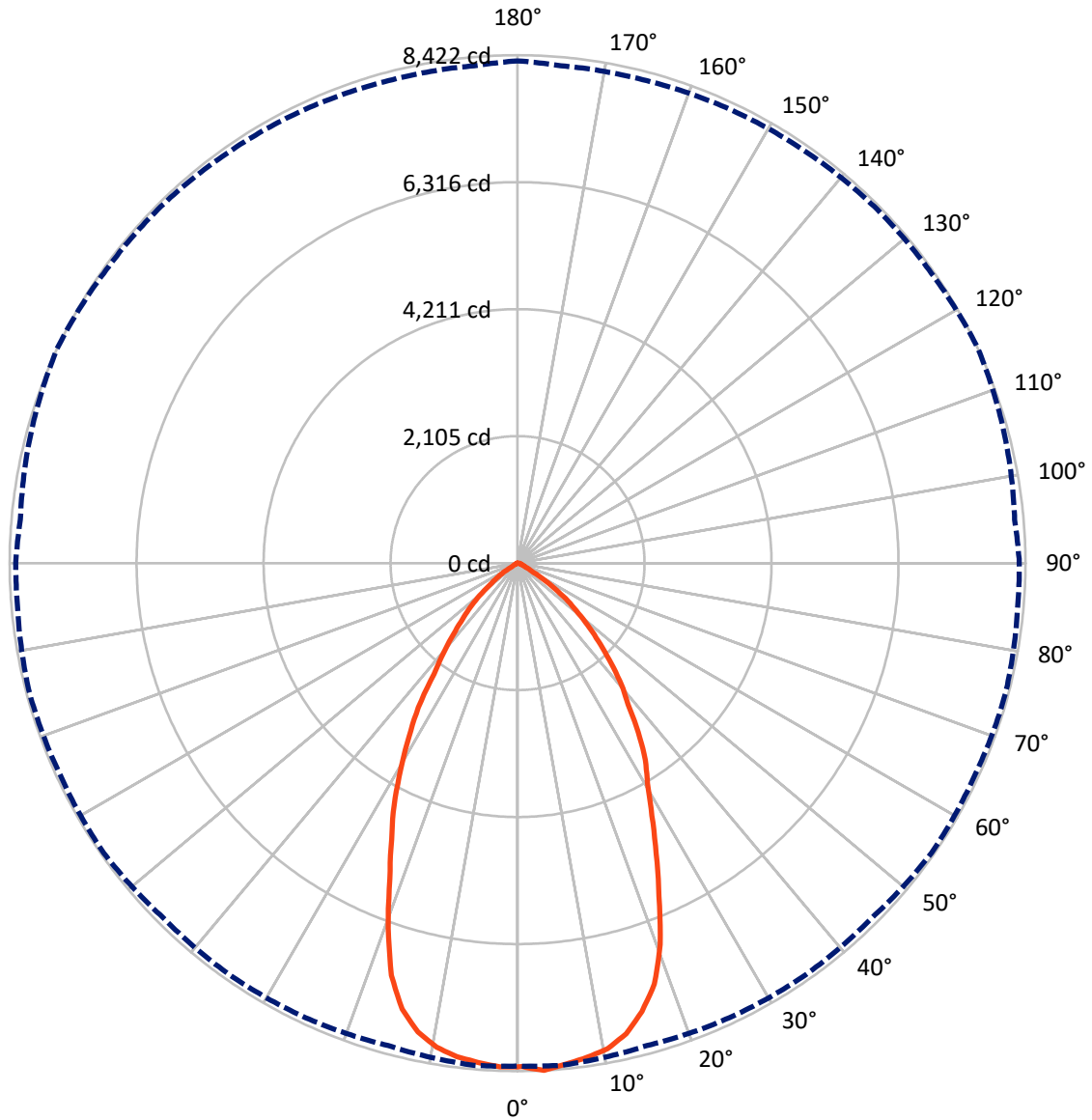
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.9 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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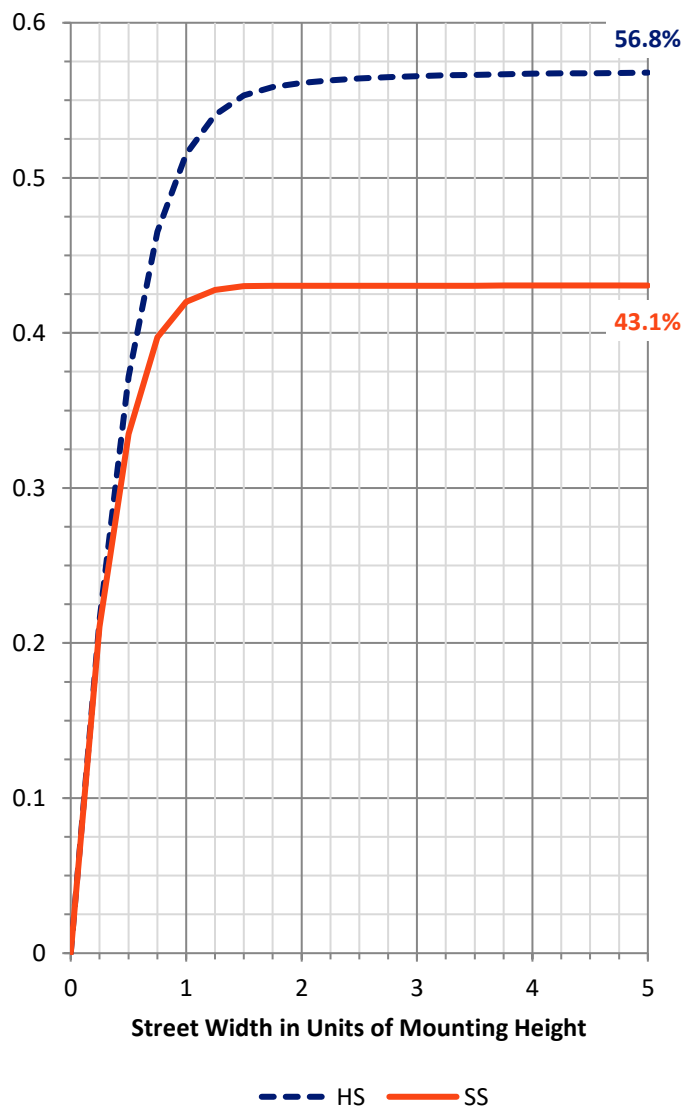
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5385.5	0.0	5385.5
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	4025.0	0.0	4025.0
	% Fixture	42.8	0.0	42.8
Total	Lumens	9410.5	0.0	9410.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	786.4	8.4
10°-20°	2085.2	22.2
20°-30°	2385.0	25.3
30°-40°	2043.9	21.7
40°-50°	1351.5	14.4
50°-60°	589.7	6.3
60°-70°	115.9	1.2
70°-80°	41.8	0.4
80°-90°	11.1	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°	9410.5	100.0
0°-180°	9410.5	100.0



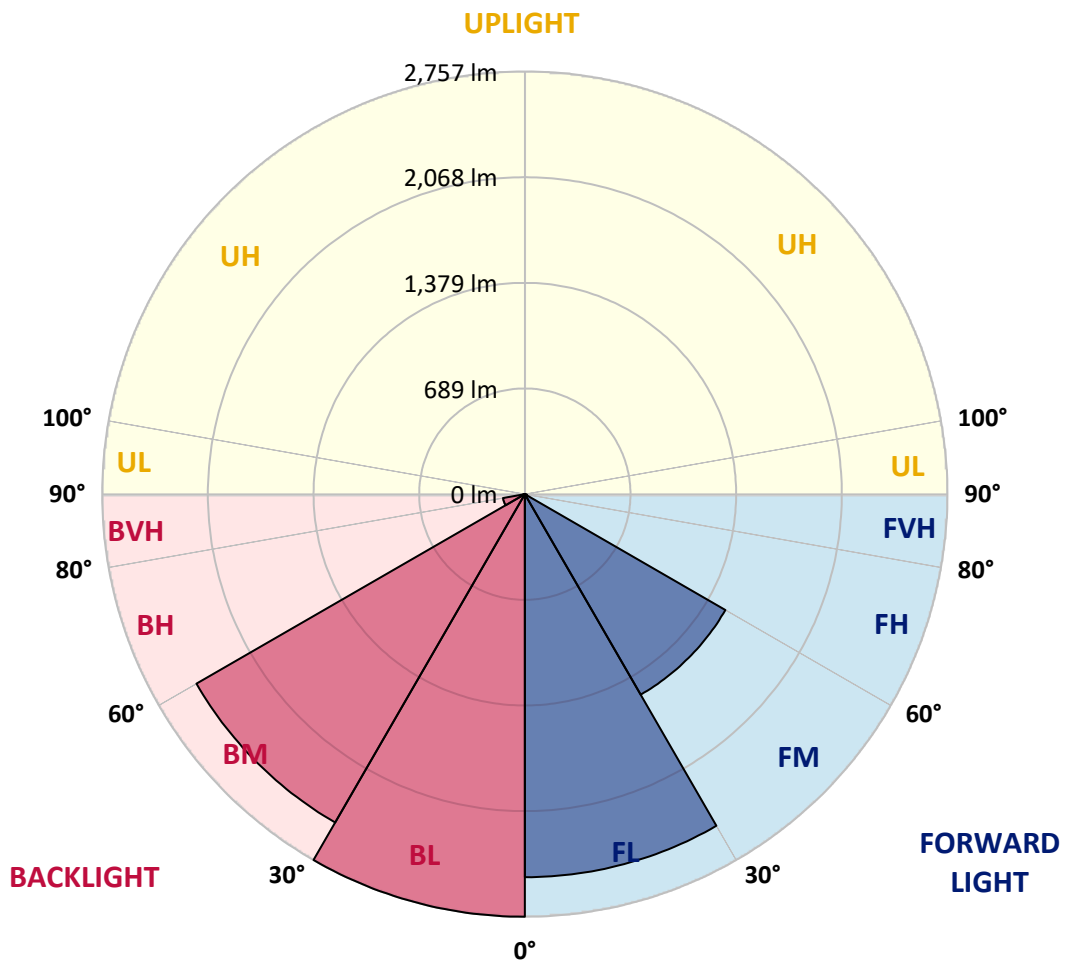
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2499.2	26.6			
FM (30°-60°)	1511.1	16.1			
FH (60°-80°)	12.8	0.1			G0/660
FVH (80°-90°)	1.8	0.0			G0/10
BL (0°-30°)	2757.4	29.3	B4/5000		
BM (30°-60°)	2474.0	26.3	B2/2500		
BH (60°-80°)	144.9	1.5	B1/500		G1/500
BVH (80°-90°)	9.3	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°	8349.5	8349.5	8349.5	8349.5	8349.5	8349.5	8349.5	8349.5	8349.5	8349.5
2.5°	8337.5	8357.5	8281.5	8315.5	8329.5	8311.5	8377.5	8357.5	8373.5	8323.5
5°	8337.5	8357.5	8269.5	8285.5	8289.5	8255.5	8327.5	8303.5	8305.5	8253.5
7.5°	8285.5	8309.5	8229.5	8241.5	8243.5	8215.5	8277.5	8243.5	8231.5	8177.5
10°	8145.4	8159.5	8087.4	8117.4	8145.4	8119.4	8173.5	8135.4	8135.4	8087.4
12.5°	7923.4	7949.4	7869.4	7905.4	7929.4	7899.4	7961.4	7947.4	7949.4	7901.4
15°	7519.3	7429.3	7525.3	7597.4	7599.4	7593.3	7651.4	7637.4	7647.4	7575.3
17.5°	5555.0	5533.0	5645.0	6495.2	7127.3	7213.3	7223.3	7147.3	7113.3	7043.3
20°	5146.9	5162.9	5138.9	5142.9	5641.0	6675.2	6613.2	6425.1	6339.1	6269.1
22.5°	4848.9	4822.9	4806.9	4796.9	4810.9	5485.0	5931.1	5647.0	5601.0	5567.0
25°	4524.8	4512.8	4492.8	4488.8	4480.8	4366.8	5008.9	5034.9	4960.9	4918.9
27.5°	4222.8	4214.7	4192.7	4190.7	4098.7	3822.7	3892.7	4510.8	4490.8	4474.8
30°	3900.7	3884.7	3872.7	3872.7	3594.6	3310.6	3196.6	3932.7	3932.7	3918.7
32.5°	3550.6	3536.6	3540.6	3492.6	3160.6	2900.5	2720.5	3394.6	3604.6	3592.6
35°	2170.4	2166.4	2572.5	3106.6	2716.5	2480.4	2468.4	2904.5	3210.6	3242.6
37.5°	1932.3	1920.3	1926.3	1960.3	2326.4	2232.4	2228.4	2302.4	2732.5	2748.5
40°	1734.3	1726.3	1720.3	1598.3	1482.3	1992.4	1978.4	1930.3	2334.4	2362.4
42.5°	1546.3	1538.3	1538.3	1366.2	1178.2	1638.3	1644.3	1588.3	1968.3	1978.4
45°	1352.2	1346.2	1312.2	1090.2	1036.2	1088.2	1362.2	1298.2	1562.3	1666.3
47.5°	638.1	634.1	918.2	906.2	902.2	870.2	1040.2	1076.2	1240.2	1344.2
50°	512.1	508.1	484.1	426.1	742.1	660.1	750.1	828.1	880.2	976.2
52.5°	424.1	420.1	370.1	328.1	412.1	482.1	448.1	554.1	552.1	656.1
55°	278.0	258.0	284.1	268.0	216.0	350.1	342.1	420.1	410.1	500.1
57.5°	6.0	6.0	14.0	152.0	136.0	148.0	196.0	240.0	270.0	296.1
60°	2.0	2.0	4.0	8.0	56.0	62.0	76.0	88.0	124.0	154.0
62.5°	0.0	0.0	2.0	4.0	8.0	32.0	36.0	42.0	58.0	80.0
65°	0.0	0.0	0.0	2.0	4.0	8.0	12.0	26.0	36.0	46.0
67.5°	0.0	0.0	0.0	2.0	2.0	4.0	8.0	12.0	16.0	32.0
70°	0.0	0.0	0.0	2.0	2.0	4.0	6.0	8.0	12.0	16.0
72.5°	0.0	0.0	0.0	2.0	2.0	6.0	4.0	6.0	8.0	10.0
75°	0.0	0.0	0.0	2.0	2.0	2.0	4.0	6.0	6.0	8.0
77.5°	0.0	0.0	0.0	2.0	4.0	4.0	4.0	4.0	4.0	6.0
80°	0.0	0.0	0.0	2.0	2.0	4.0	6.0	8.0	4.0	4.0
82.5°	0.0	0.0	0.0	4.0	2.0	8.0	12.0	10.0	4.0	2.0
85°	0.0	0.0	0.0	2.0	8.0	10.0	10.0	6.0	2.0	2.0
87.5°	0.0	0.0	0.0	2.0	2.0	4.0	6.0	6.0	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°
8349.5	0°	8349.5	8349.5	8349.5	8349.5	8349.5	8349.5	8349.5	8349.5	8349.5
8319.5	2.5°	8273.5	8351.5	8421.5	8377.5	8361.5	8329.5	8305.5	8279.5	8277.5
8247.5	5°	8201.5	8275.5	8343.5	8291.5	8295.5	8279.5	8263.5	8257.5	8261.5
8173.5	7.5°	8139.4	8201.5	8275.5	8231.5	8243.5	8233.5	8225.5	8213.5	8231.5
8077.4	10°	8045.4	8101.4	8187.5	8145.4	8139.4	8129.4	8121.4	8099.4	8109.4
7903.4	12.5°	7839.4	7909.4	8007.4	7959.4	7975.4	7947.4	7935.4	7921.4	7923.4
7601.4	15°	7559.3	7613.4	7713.4	7675.4	7687.4	7669.4	7669.4	7669.4	7683.4
7053.3	17.5°	7071.3	7181.3	7339.3	7291.3	7309.3	7313.3	7309.3	7323.3	7341.3
6273.1	20°	6277.1	6465.1	6753.2	6847.2	6885.2	6887.2	6859.2	6893.2	6929.2
5543.0	22.5°	5547.0	5745.0	5999.1	6257.1	6417.1	6409.1	6413.1	6435.1	6473.2
4892.9	25°	4914.9	5104.9	5334.9	5565.0	5915.1	5987.1	5989.1	6009.1	6039.1
4448.8	27.5°	4458.8	4532.8	4742.8	4974.9	5351.0	5581.0	5569.0	5587.0	5619.0
3892.7	30°	3908.7	4192.7	4240.8	4382.8	4706.8	5128.9	5130.9	5150.9	5182.9
3564.6	32.5°	3554.6	3742.7	3890.7	3894.7	4170.7	4604.8	4690.8	4710.8	4732.8
3224.6	35°	3222.6	3244.6	3444.6	3500.6	3660.7	4090.7	4242.8	4254.8	4290.8
2742.5	37.5°	2788.5	2918.5	2974.5	3174.6	3182.6	3530.6	3832.7	3820.7	3848.7
2360.4	40°	2390.4	2514.4	2656.5	2802.5	2822.5	3082.5	3416.6	3428.6	3440.6
1958.3	42.5°	1974.4	2132.4	2278.4	2376.4	2512.4	2662.5	2980.5	3036.5	3064.5
1678.3	45°	1708.3	1752.3	1926.3	2070.4	2208.4	2278.4	2576.5	2678.5	2696.5
1328.2	47.5°	1346.2	1494.3	1612.3	1734.3	1906.3	1968.3	2184.4	2326.4	2340.4
986.2	50°	1040.2	1146.2	1308.2	1418.3	1618.3	1652.3	1800.3	1984.4	2002.4
660.1	52.5°	744.1	888.2	1046.2	1152.2	1344.2	1388.2	1498.3	1674.3	1686.3
506.1	55°	534.1	628.1	758.1	910.2	1050.2	1148.2	1224.2	1392.2	1408.3
332.1	57.5°	364.1	452.1	506.1	658.1	742.1	848.2	910.2	1038.2	1050.2
158.0	60°	174.0	216.0	258.0	334.1	388.1	478.1	518.1	570.1	584.1
96.0	62.5°	112.0	132.0	168.0	200.0	252.0	308.1	324.1	368.1	384.1
60.0	65°	74.0	94.0	132.0	140.0	192.0	236.0	256.0	288.1	306.1
36.0	67.5°	42.0	66.0	98.0	116.0	152.0	194.0	216.0	244.0	260.0
24.0	70°	28.0	54.0	78.0	96.0	120.0	156.0	184.0	208.0	218.0
12.0	72.5°	16.0	34.0	54.0	76.0	96.0	130.0	156.0	176.0	116.0
8.0	75°	10.0	26.0	46.0	64.0	80.0	104.0	126.0	124.0	52.0
6.0	77.5°	8.0	20.0	40.0	54.0	66.0	72.0	90.0	102.0	40.0
4.0	80°	6.0	16.0	36.0	46.0	26.0	52.0	70.0	76.0	28.0
4.0	82.5°	4.0	10.0	30.0	32.0	18.0	38.0	56.0	50.0	20.0
2.0	85°	2.0	6.0	10.0	18.0	16.0	18.0	14.0	20.0	14.0
2.0	87.5°	2.0	4.0	8.0	8.0	8.0	6.0	8.0	8.0	8.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8349.5
8325.5
8311.5
8281.5
8157.4
7981.4
7689.4
7401.3
6953.2
6479.2
6091.1
5649.0
5238.9
4782.9
4328.8
3882.7
3478.6
3104.6
2740.5
2374.4
2028.4
1708.3
1422.3
1074.2
600.1
388.1
306.1
258.0
216.0
94.0
52.0
40.0
30.0
20.0
14.0
8.0
0.0

(END OF REPORT)