

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: P636874

Luminaire Tested: **IFLD-L-SA7B-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636874
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16617.2 lumens
Efficiency: N/A
Efficacy: 59.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

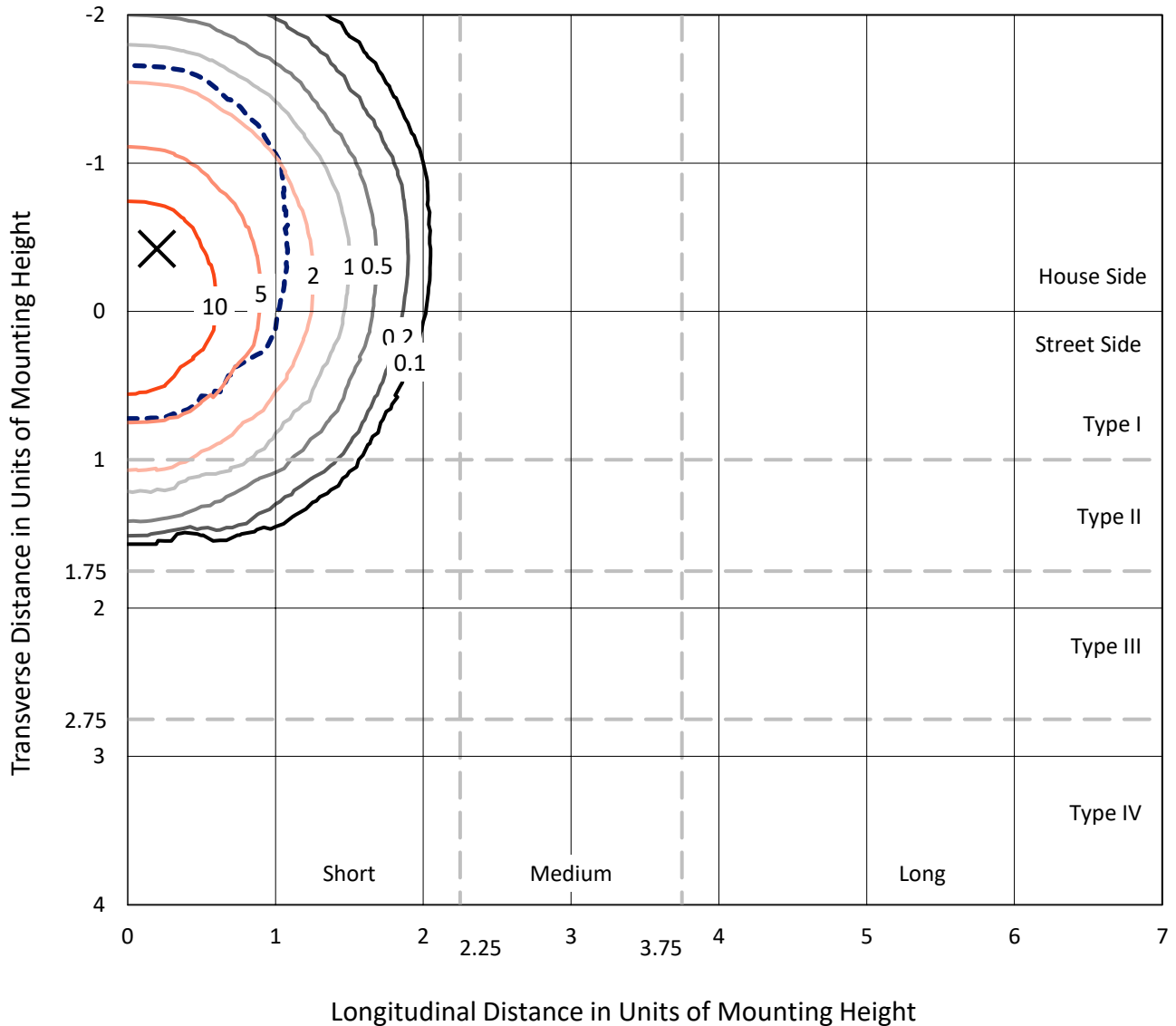
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

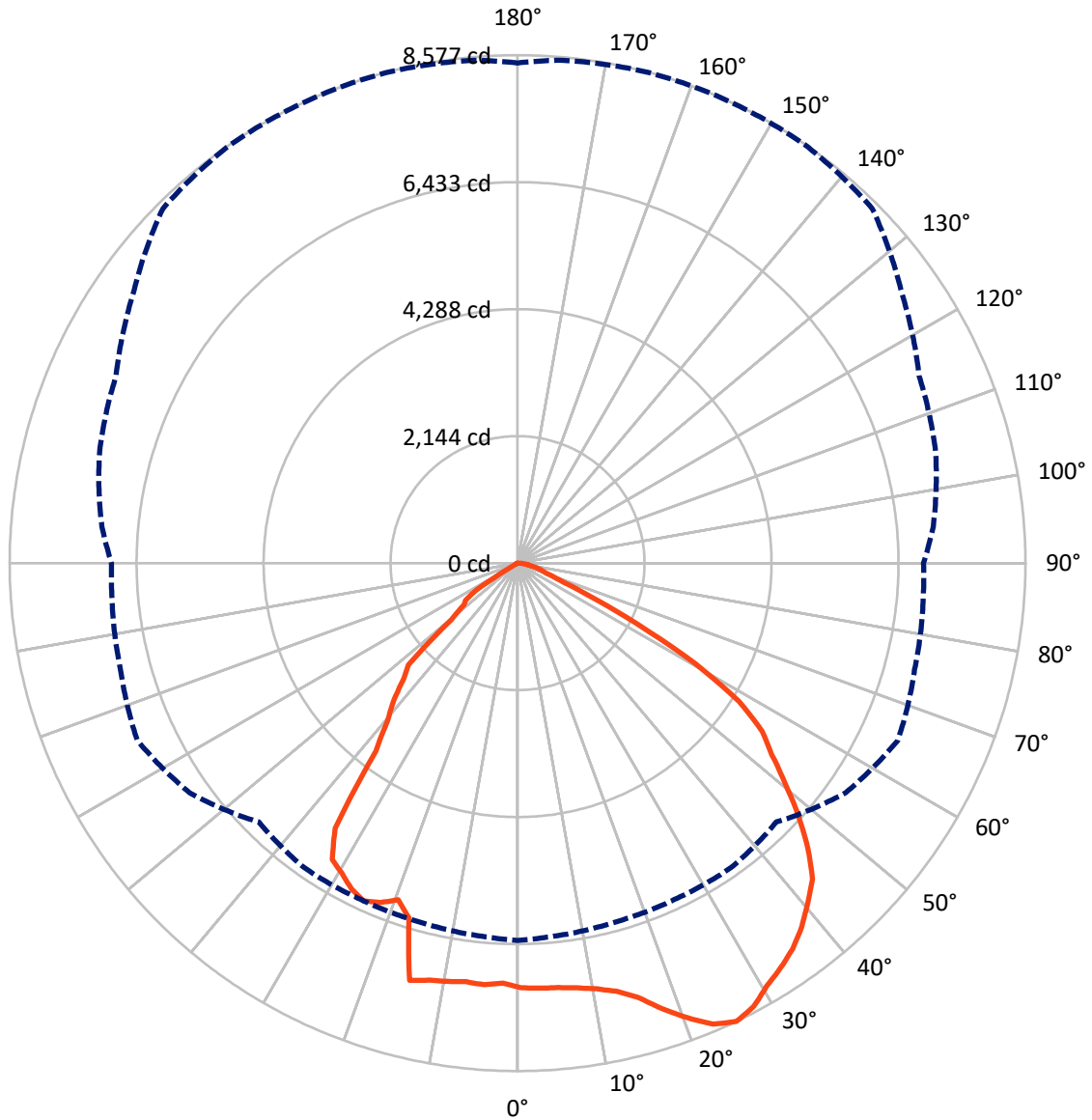
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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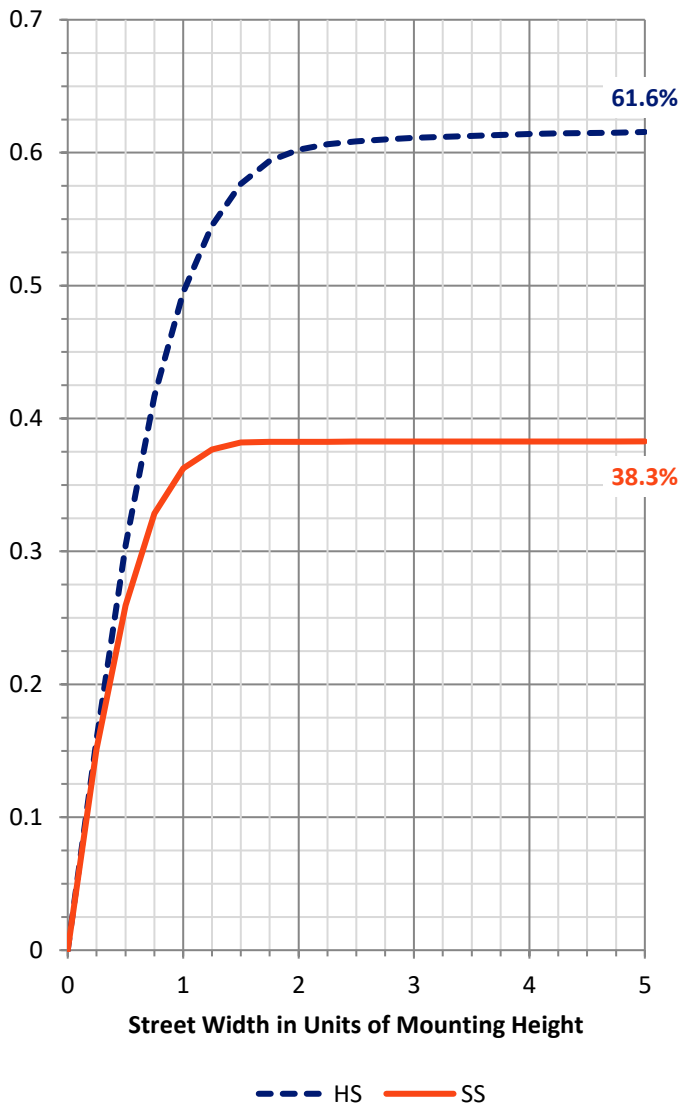
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10287.8	0.0	10287.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6329.5	0.0	6329.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	16617.2	0.0	16617.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.9	4.1
10°-20°	2100.4	12.6
20°-30°	3320.6	20.0
30°-40°	3750.9	22.6
40°-50°	3512.8	21.1
50°-60°	2421.8	14.6
60°-70°	650.7	3.9
70°-80°	135.6	0.8
80°-90°	36.7	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°	16617.2	100.0
0°-180°	16617.2	100.0



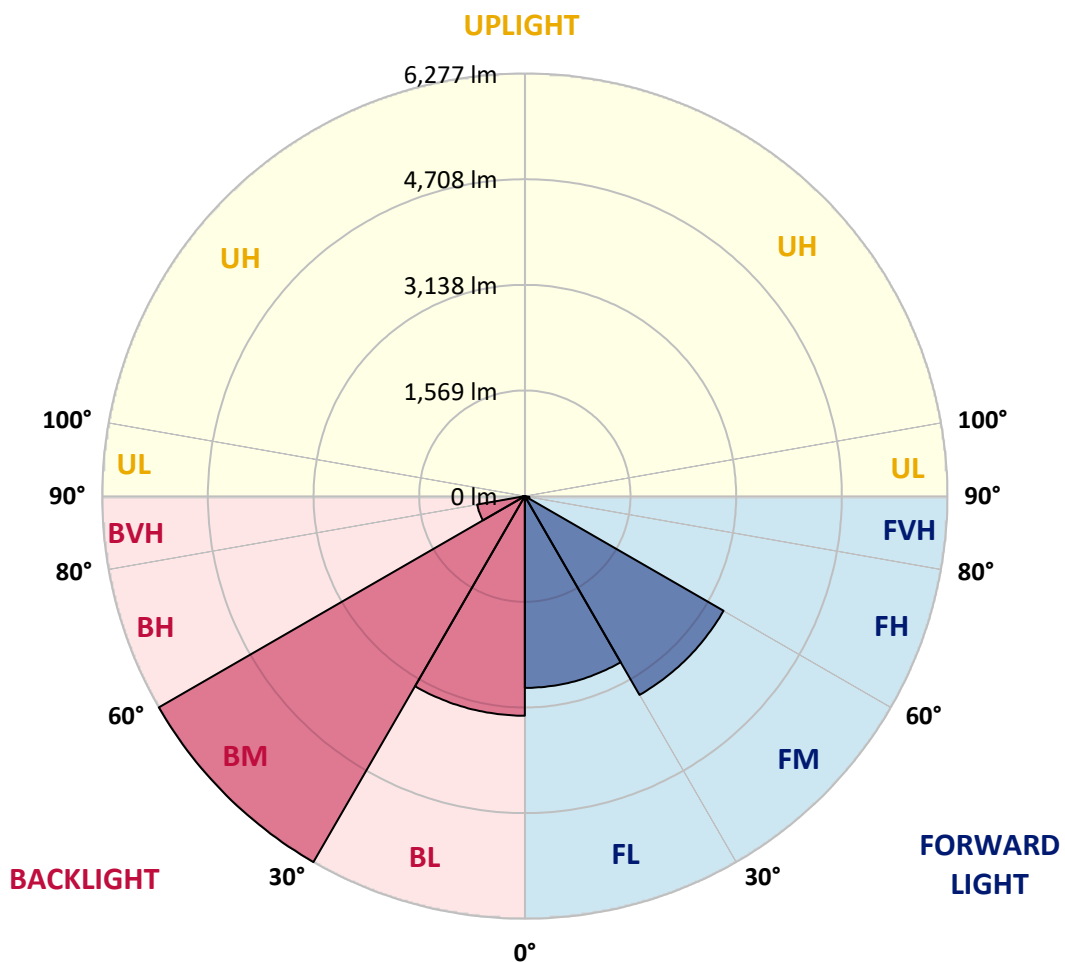
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2847.7	17.1			
FM (30°-60°)	3408.6	20.5			
FH (60°-80°)	68.3	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	3261.2	19.6	B4/5000		
BM (30°-60°)	6276.9	37.8	B4/8500		
BH (60°-80°)	717.9	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.8	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7170.0	7170.0	7170.0	7170.0	7170.0	7170.0	7170.0	7170.0	7170.0	7170.0
2.5°	7201.8	7155.4	7111.4	7096.8	7157.8	7223.8	7182.3	7184.7	7170.0	7196.9
5°	7255.5	7192.0	7162.7	7140.7	7150.5	7218.9	7160.3	7182.3	7157.8	7189.6
7.5°	7236.0	7192.0	7162.7	7121.2	7152.9	7233.5	7177.4	7179.8	7167.6	7196.9
10°	7223.8	7192.0	7155.4	7160.3	7196.9	7265.3	7221.3	7245.7	7228.7	7245.7
12.5°	7253.1	7218.9	7199.3	7199.3	7231.1	7309.2	7287.3	7309.2	7301.9	7316.6
15°	6977.1	7008.9	7194.5	7277.5	7341.0	7419.1	7409.4	7431.3	7436.2	7458.2
17.5°	5885.5	5853.7	5839.1	6266.5	7402.0	7643.8	7636.5	7634.0	7609.6	7592.5
20°	6029.6	6017.4	6000.3	6032.0	6159.0	7761.0	7809.9	7509.5	7421.6	7414.3
22.5°	6259.1	6239.6	6176.1	6178.5	6217.6	6747.6	7568.1	7294.6	7265.3	7248.2
25°	6371.5	6332.4	6281.1	6266.5	6278.7	6181.0	6759.8	7084.6	6940.5	6874.5
27.5°	6173.7	6176.1	6134.6	6173.7	6127.3	5687.7	5441.0	6674.3	6669.4	6640.1
30°	6024.7	6017.4	5968.5	6017.4	5697.4	5206.6	5101.6	6224.9	6173.7	6134.6
32.5°	5568.0	5572.9	5714.5	5905.0	5380.0	4991.7	4674.2	5560.7	6046.7	6024.7
35°	3983.1	3992.9	4495.9	5436.1	4898.9	4564.3	4539.9	4806.1	5846.4	5856.2
37.5°	3834.1	3834.1	3821.9	3975.8	4520.3	4390.9	4439.8	4412.9	5355.6	5380.0
40°	3726.7	3704.7	3687.6	3445.8	3143.0	4268.8	4303.0	4180.9	5062.5	5067.4
42.5°	3597.2	3572.8	3577.7	3130.8	2813.3	3966.0	3870.7	3707.1	4574.1	4579.0
45°	3360.3	3401.9	3431.2	2740.0	2715.6	2832.8	3570.4	3467.8	4244.4	4334.7
47.5°	1709.5	1746.1	2679.0	2520.3	2576.4	2517.8	3016.0	3018.5	3531.3	3831.7
50°	1550.7	1541.0	1543.4	1470.2	2378.6	2036.7	2180.8	2766.9	2828.0	3257.8
52.5°	1445.7	1443.3	1294.3	1150.2	1494.6	1792.5	1582.5	2002.5	2102.7	2759.6
55°	1069.6	1147.8	1020.8	1081.9	935.3	1436.0	1428.6	1807.2	1841.4	2212.6
57.5°	9.8	12.2	29.3	823.0	647.2	718.0	986.6	1233.3	1294.3	1724.1
60°	2.4	4.9	12.2	24.4	420.0	442.0	659.4	713.1	803.5	1028.1
62.5°	0.0	0.0	4.9	12.2	22.0	180.7	210.0	229.6	354.1	525.1
65°	0.0	0.0	2.4	7.3	12.2	29.3	51.3	107.5	153.9	190.5
67.5°	0.0	0.0	2.4	4.9	9.8	14.7	29.3	41.5	65.9	112.3
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.5	29.3	39.1	56.2
72.5°	0.0	0.0	2.4	4.9	4.9	14.7	14.7	22.0	29.3	36.6
75°	0.0	0.0	2.4	2.4	4.9	9.8	14.7	17.1	19.5	29.3
77.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	19.5	17.1	17.1
80°	0.0	0.0	2.4	7.3	7.3	12.2	14.7	19.5	12.2	12.2
82.5°	0.0	0.0	2.4	9.8	7.3	24.4	24.4	26.9	9.8	9.8
85°	0.0	0.0	7.3	4.9	14.7	24.4	22.0	14.7	12.2	7.3
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	17.1	14.7	4.9	4.9
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°
7170.0	0°	7170.0	7170.0	7170.0	7170.0	7170.0	7170.0	7170.0	7170.0	7170.0
7126.1	2.5°	7223.8	7192.0	7258.0	7250.6	7218.9	7204.2	7187.1	7172.5	7065.0
7131.0	5°	7226.2	7177.4	7258.0	7243.3	7238.4	7214.0	7199.3	7221.3	7123.6
7150.5	7.5°	7226.2	7177.4	7265.3	7270.2	7262.8	7243.3	7240.9	7255.5	7174.9
7184.7	10°	7275.1	7255.5	7328.8	7336.1	7326.3	7321.5	7309.2	7299.5	7214.0
7301.9	12.5°	7377.6	7338.5	7421.6	7443.6	7436.2	7448.4	7419.1	7433.8	7345.9
7421.6	15°	7502.2	7504.6	7568.1	7616.9	7612.1	7651.1	7607.2	7646.3	7582.8
7558.3	17.5°	7692.7	7719.5	7809.9	7883.1	7910.0	7939.3	7910.0	7922.2	7831.9
7406.9	20°	7492.4	7592.5	8027.2	8161.5	8217.7	8244.6	8195.7	8210.4	8120.0
7221.3	22.5°	7311.7	7441.1	7827.0	8247.0	8420.4	8474.1	8457.0	8454.6	8420.4
6855.0	25°	7045.5	7306.8	7480.2	7924.7	8469.2	8566.9	8576.7	8574.3	8523.0
6630.3	27.5°	6718.2	6776.9	7226.2	7497.3	8127.3	8498.5	8483.9	8413.1	8344.7
6163.9	30°	6300.6	6566.8	6769.5	7201.8	7685.3	8288.5	8288.5	8234.8	8164.0
5997.8	32.5°	6088.2	6432.5	6620.6	6776.9	7189.6	8054.1	8151.8	8095.6	8039.4
5868.4	35°	5975.8	6027.1	6466.7	6608.4	6957.6	7602.3	7997.9	7941.7	7900.2
5524.1	37.5°	5729.2	5848.9	6054.0	6432.5	6540.0	7233.5	7792.8	7763.5	7714.6
5077.2	40°	5179.7	5499.6	5814.7	6173.7	6286.0	6759.8	7543.7	7555.9	7490.0
4600.9	42.5°	4854.9	5072.3	5565.6	5807.3	6110.2	6454.5	7301.9	7321.5	7275.1
4359.2	45°	4473.9	4715.7	5062.5	5502.1	5914.8	6034.5	6874.5	7079.7	7040.6
3878.1	47.5°	4124.7	4320.1	4745.0	5189.5	5646.2	5629.1	6383.7	6769.5	6715.8
3509.3	50°	3629.0	3970.9	4171.1	4579.0	5260.3	5306.7	5861.1	6405.7	6361.7
2981.8	52.5°	3060.0	3489.8	3873.2	4246.8	4869.6	4979.5	5375.1	6034.5	6005.2
2278.5	55°	2674.1	2986.7	3419.0	3719.3	4395.8	4688.9	5011.2	5680.4	5665.7
1873.1	57.5°	1902.4	2505.6	2862.2	3282.2	3638.7	4168.7	4408.0	4959.9	4823.2
1037.9	60°	1289.4	1572.7	2007.4	2459.2	2698.5	3228.5	3450.7	3892.7	3856.1
620.3	62.5°	681.3	942.7	1252.8	1479.9	1653.3	2168.6	2261.4	2737.6	2725.4
249.1	65°	300.4	398.1	678.9	796.1	974.4	1213.7	1294.3	1465.3	1423.8
122.1	67.5°	156.3	236.9	383.4	471.3	593.4	683.8	749.7	803.5	837.6
80.6	70°	95.2	173.4	236.9	327.2	407.8	481.1	532.4	605.6	649.6
41.5	72.5°	70.8	109.9	163.6	251.5	295.5	381.0	432.3	486.0	525.1
34.2	75°	39.1	73.3	131.9	197.8	236.9	310.1	356.5	393.2	405.4
19.5	77.5°	24.4	56.2	109.9	153.9	185.6	251.5	239.3	273.5	302.8
14.7	80°	17.1	41.5	85.5	127.0	129.4	161.2	190.5	219.8	239.3
9.8	82.5°	12.2	34.2	63.5	97.7	85.5	124.5	149.0	170.9	124.5
7.3	85°	9.8	24.4	31.7	58.6	48.8	87.9	75.7	73.3	48.8
4.9	87.5°	7.3	12.2	22.0	26.9	19.5	19.5	24.4	29.3	24.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7170.0
6991.8
7040.6
7082.1
7143.2
7267.7
7477.7
7753.7
8056.5
8310.5
8444.8
8291.0
8137.1
7993.0
7841.6
7665.8
7475.3
7270.2
7045.5
6754.9
6369.0
6024.7
5682.8
4808.5
3858.5
2727.8
1406.7
837.6
652.0
532.4
398.1
307.7
241.8
90.4
48.8
24.4
0.0

(END OF REPORT)