

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: P636961

Luminaire Tested: **IFLD-L-SA7B-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636961
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 4000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18966.4 lumens
Efficiency: N/A
Efficacy: 67.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

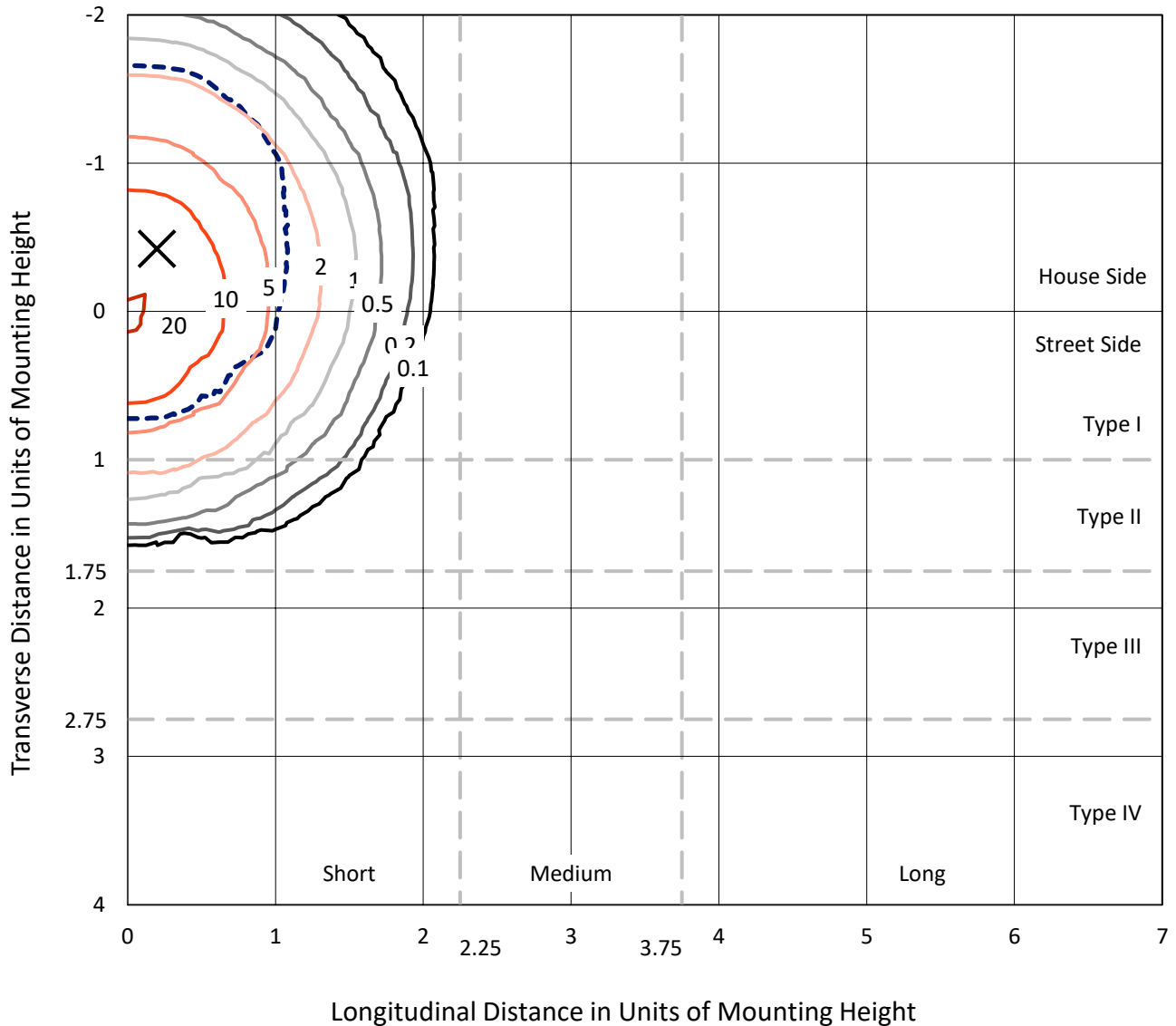
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

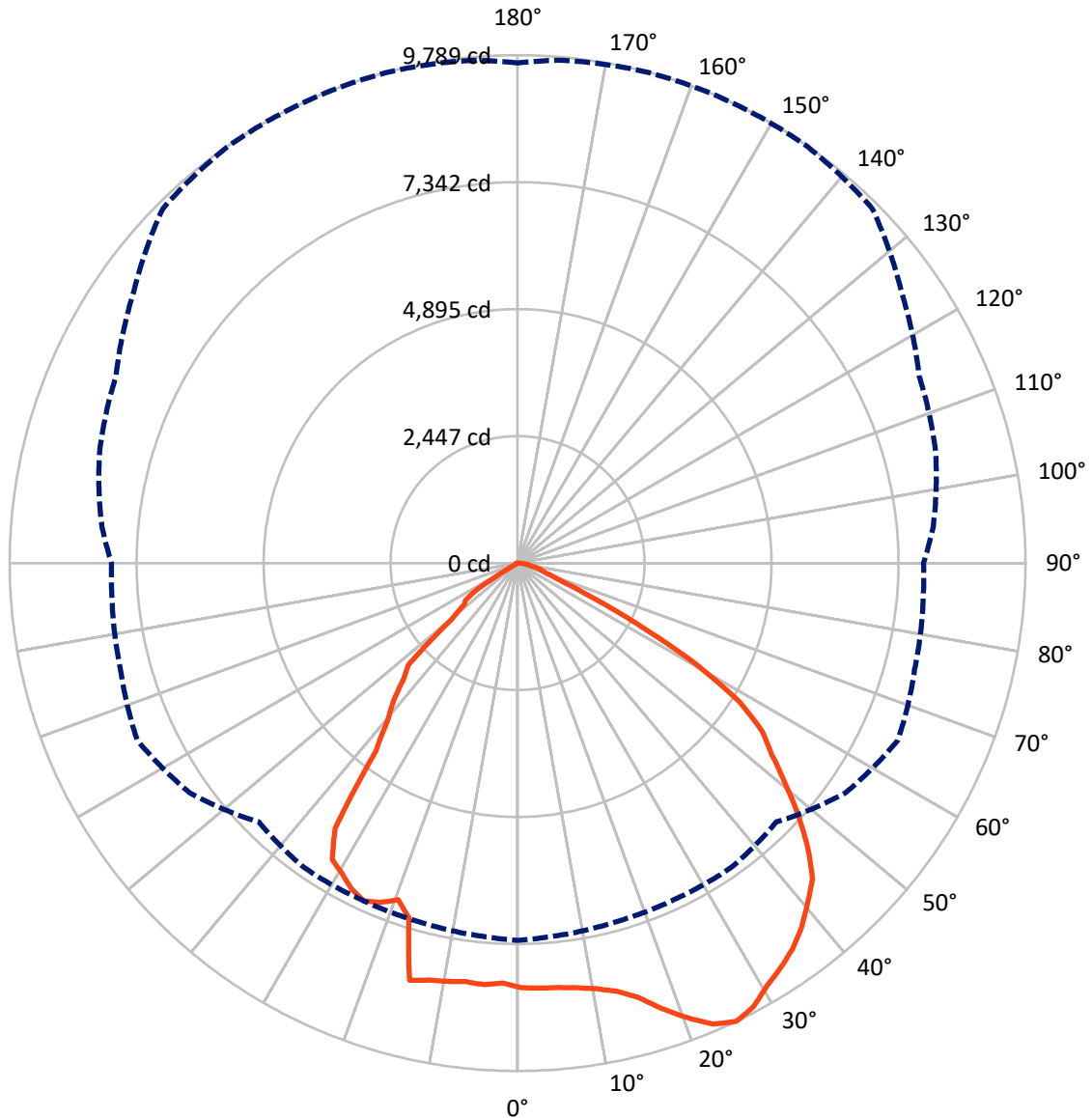
× Max cd
 - - - 1/2 Max cd



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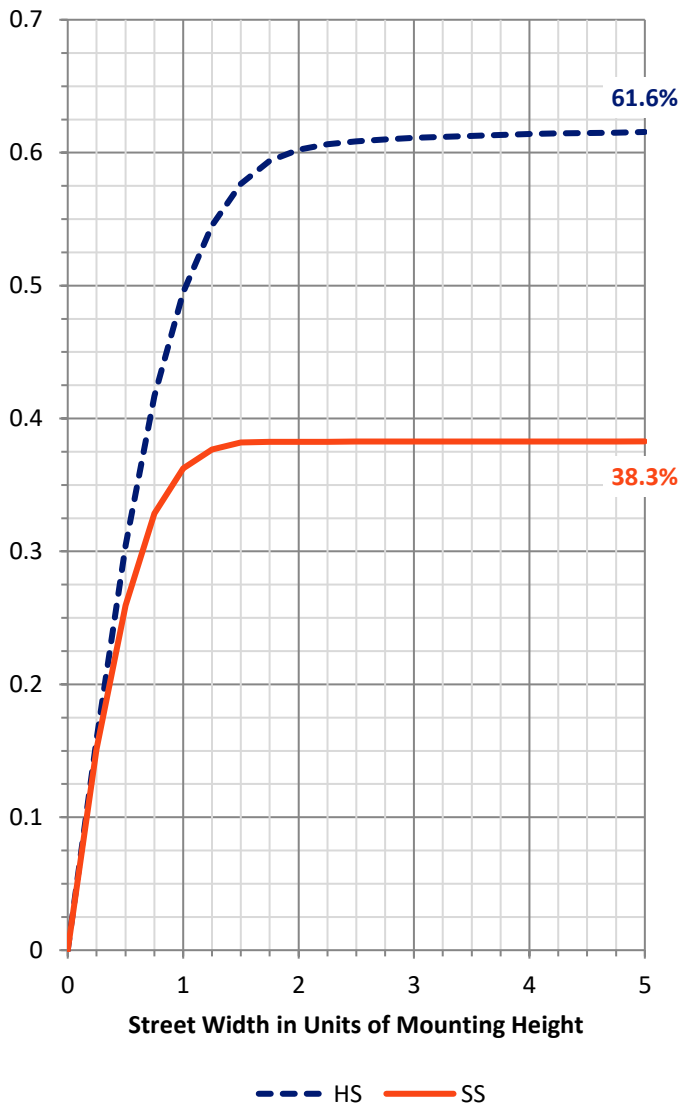
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11742.1	0.0	11742.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7224.2	0.0	7224.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	18966.4	0.0	18966.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	785.1	4.1
10°-20°	2397.3	12.6
20°-30°	3790.0	20.0
30°-40°	4281.1	22.6
40°-50°	4009.4	21.1
50°-60°	2764.2	14.6
60°-70°	742.6	3.9
70°-80°	154.8	0.8
80°-90°	41.9	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°	18966.4	100.0
0°-180°	18966.4	100.0



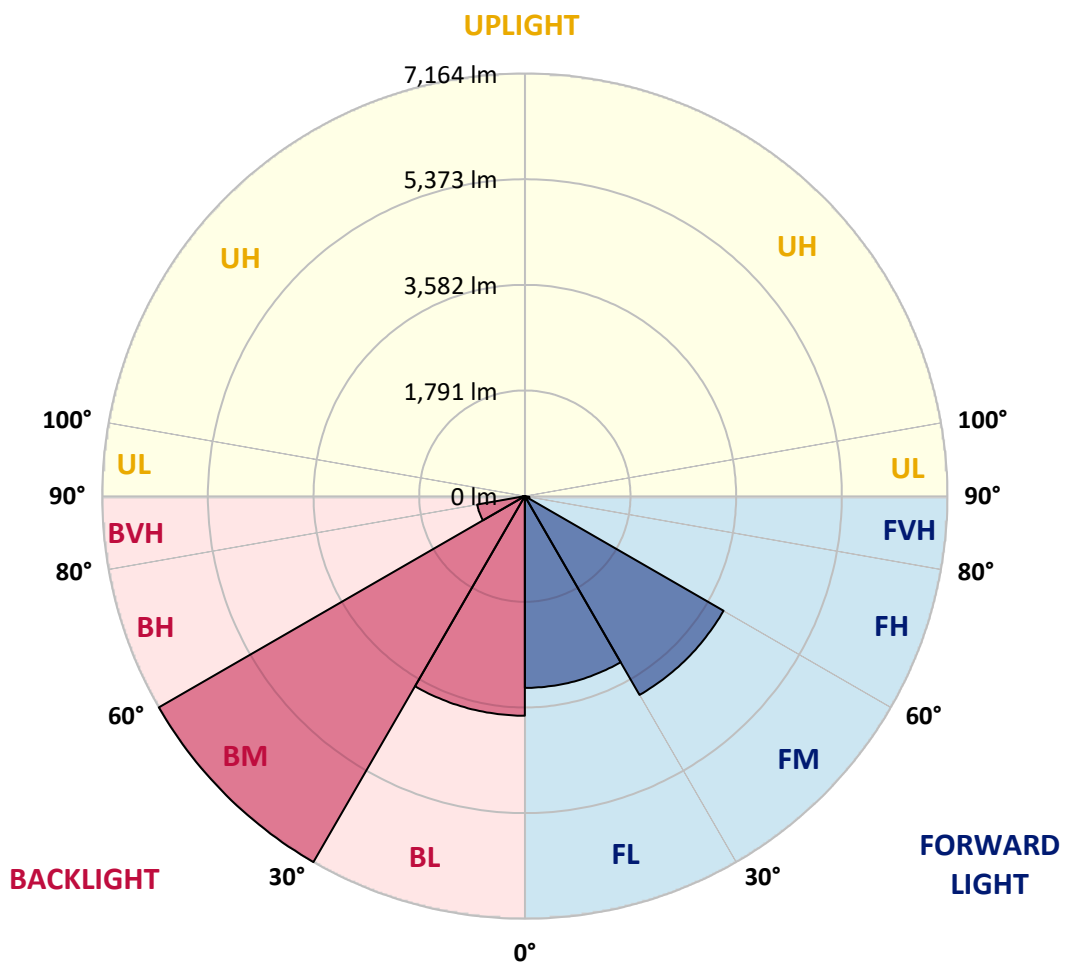
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3250.2	17.1			
FM	(30°-60°)	3890.4	20.5			
FH	(60°-80°)	78.0	0.4			G0/660
FVH	(80°-90°)	5.6	0.0			G0/10
BL	(0°-30°)	3722.2	19.6	B4/5000		
BM	(30°-60°)	7164.3	37.8	B4/8500		
BH	(60°-80°)	819.4	4.3	B2/1000		G2/1000
BVH	(80°-90°)	36.2	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°	8183.7	8183.7	8183.7	8183.7	8183.7	8183.7	8183.7	8183.7	8183.7	8183.7
2.5°	8219.9	8166.9	8116.8	8100.0	8169.7	8245.0	8197.6	8200.4	8183.7	8214.3
5°	8281.2	8208.7	8175.3	8150.2	8161.4	8239.4	8172.5	8197.6	8169.7	8206.0
7.5°	8258.9	8208.7	8175.3	8127.9	8164.1	8256.1	8192.0	8194.8	8180.9	8214.3
10°	8245.0	8208.7	8166.9	8172.5	8214.3	8292.4	8242.2	8270.1	8250.5	8270.1
12.5°	8278.4	8239.4	8217.1	8217.1	8253.3	8342.5	8317.4	8342.5	8334.2	8350.9
15°	7963.5	7999.7	8211.5	8306.3	8378.8	8468.0	8456.8	8481.9	8487.5	8512.6
17.5°	6717.5	6681.3	6664.5	7152.3	8448.5	8724.4	8716.0	8713.2	8685.4	8665.9
20°	6882.0	6868.0	6848.5	6884.7	7029.7	8858.2	8913.9	8571.1	8470.8	8462.4
22.5°	7144.0	7121.7	7049.2	7052.0	7096.6	7701.4	8638.0	8325.8	8292.4	8272.8
25°	7272.2	7227.6	7169.1	7152.3	7166.3	7054.8	7715.4	8086.1	7921.6	7846.4
27.5°	7046.4	7049.2	7001.8	7046.4	6993.5	6491.7	6210.2	7617.8	7612.2	7578.8
30°	6876.4	6868.0	6812.3	6868.0	6502.9	5942.6	5822.8	7104.9	7046.4	7001.8
32.5°	6355.2	6360.7	6522.4	6739.8	6140.5	5697.3	5335.0	6346.8	6901.5	6876.4
35°	4546.2	4557.3	5131.5	6204.6	5591.4	5209.6	5181.7	5485.5	6672.9	6684.1
37.5°	4376.1	4376.1	4362.2	4537.8	5159.4	5011.7	5067.4	5036.7	6112.7	6140.5
40°	4253.5	4228.4	4208.9	3932.9	3587.3	4872.3	4911.3	4771.9	5778.2	5783.7
42.5°	4105.8	4077.9	4083.5	3573.4	3211.0	4526.7	4417.9	4231.2	5220.7	5226.3
45°	3835.4	3882.8	3916.2	3127.4	3099.5	3233.3	4075.1	3958.0	4844.4	4947.5
47.5°	1951.1	1993.0	3057.7	2876.5	2940.7	2873.8	3442.4	3445.2	4030.5	4373.3
50°	1770.0	1758.8	1761.6	1678.0	2714.9	2324.6	2489.1	3158.1	3227.7	3718.3
52.5°	1650.1	1647.3	1477.3	1312.8	1705.9	2045.9	1806.2	2285.6	2399.9	3149.7
55°	1220.9	1310.1	1165.1	1234.8	1067.6	1639.0	1630.6	2062.6	2101.7	2525.3
57.5°	11.1	13.9	33.4	939.3	738.6	819.5	1126.1	1407.6	1477.3	1967.9
60°	2.8	5.6	13.9	27.9	479.4	504.5	752.6	813.9	917.0	1173.5
62.5°	0.0	0.0	5.6	13.9	25.1	206.3	239.7	262.0	404.2	599.3
65°	0.0	0.0	2.8	8.4	13.9	33.4	58.5	122.6	175.6	217.4
67.5°	0.0	0.0	2.8	5.6	11.1	16.7	33.4	47.4	75.3	128.2
70°	0.0	0.0	2.8	5.6	8.4	13.9	22.3	33.4	44.6	64.1
72.5°	0.0	0.0	2.8	5.6	5.6	16.7	16.7	25.1	33.4	41.8
75°	0.0	0.0	2.8	2.8	5.6	11.1	16.7	19.5	22.3	33.4
77.5°	0.0	0.0	2.8	5.6	8.4	11.1	13.9	22.3	19.5	19.5
80°	0.0	0.0	2.8	8.4	8.4	13.9	16.7	22.3	13.9	13.9
82.5°	0.0	0.0	2.8	11.1	8.4	27.9	27.9	30.7	11.1	11.1
85°	0.0	0.0	8.4	5.6	16.7	27.9	25.1	16.7	13.9	8.4
87.5°	0.0	0.0	2.8	2.8	5.6	8.4	19.5	16.7	5.6	5.6
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°
8183.7	0°	8183.7	8183.7	8183.7	8183.7	8183.7	8183.7	8183.7	8183.7	8183.7
8133.5	2.5°	8245.0	8208.7	8284.0	8275.6	8239.4	8222.7	8203.2	8186.4	8063.8
8139.1	5°	8247.8	8192.0	8284.0	8267.3	8261.7	8233.8	8217.1	8242.2	8130.7
8161.4	7.5°	8247.8	8192.0	8292.4	8297.9	8289.6	8267.3	8264.5	8281.2	8189.2
8200.4	10°	8303.5	8281.2	8364.8	8373.2	8362.0	8356.5	8342.5	8331.4	8233.8
8334.2	12.5°	8420.6	8376.0	8470.8	8495.8	8487.5	8501.4	8468.0	8484.7	8384.3
8470.8	15°	8562.7	8565.5	8638.0	8693.7	8688.2	8732.8	8682.6	8727.2	8654.7
8626.8	17.5°	8780.1	8810.8	8913.9	8997.6	9028.2	9061.7	9028.2	9042.2	8939.0
8454.0	20°	8551.6	8665.9	9162.0	9315.3	9379.4	9410.1	9354.3	9371.1	9267.9
8242.2	22.5°	8345.3	8493.0	8933.4	9412.9	9610.8	9672.1	9652.6	9649.8	9610.8
7824.1	25°	8041.5	8339.7	8537.6	9044.9	9666.5	9778.0	9789.2	9786.4	9727.8
7567.6	27.5°	7668.0	7734.9	8247.8	8557.2	9276.3	9700.0	9683.2	9602.4	9524.4
7035.3	30°	7191.4	7495.2	7726.5	8219.9	8771.8	9460.3	9460.3	9398.9	9318.1
6845.7	32.5°	6948.9	7341.9	7556.5	7734.9	8206.0	9192.7	9304.2	9240.1	9175.9
6698.0	35°	6820.6	6879.2	7380.9	7542.6	7941.2	8677.0	9128.6	9064.5	9017.1
6305.0	37.5°	6539.1	6675.7	6909.8	7341.9	7464.5	8256.1	8894.4	8861.0	8805.2
5794.9	40°	5912.0	6277.1	6636.7	7046.4	7174.6	7715.4	8610.1	8624.1	8548.8
5251.4	42.5°	5541.2	5789.3	6352.4	6628.3	6973.9	7367.0	8334.2	8356.5	8303.5
4975.4	45°	5106.4	5382.4	5778.2	6279.9	6751.0	6887.5	7846.4	8080.5	8035.9
4426.3	47.5°	4707.8	4930.8	5415.8	5923.1	6444.3	6424.8	7286.1	7726.5	7665.2
4005.4	50°	4142.0	4532.2	4760.8	5226.3	6003.9	6056.9	6689.6	7311.2	7261.0
3403.4	52.5°	3492.5	3983.1	4420.7	4847.2	5558.0	5683.4	6135.0	6887.5	6854.1
2600.6	55°	3052.1	3408.9	3902.3	4245.1	5017.2	5351.7	5719.6	6483.4	6466.6
2137.9	57.5°	2171.3	2859.8	3266.8	3746.2	4153.1	4758.0	5031.2	5661.1	5505.0
1184.6	60°	1471.7	1795.1	2291.2	2806.9	3080.0	3684.9	3938.5	4443.0	4401.2
708.0	62.5°	777.7	1075.9	1429.9	1689.1	1887.0	2475.2	2581.1	3124.6	3110.7
284.3	65°	342.8	454.3	774.9	908.7	1112.2	1385.3	1477.3	1672.4	1625.0
139.4	67.5°	178.4	270.4	437.6	538.0	677.3	780.5	855.7	917.0	956.1
92.0	70°	108.7	197.9	270.4	373.5	465.5	549.1	607.6	691.3	741.4
47.4	72.5°	80.8	125.4	186.8	287.1	337.3	434.8	493.4	554.7	599.3
39.0	75°	44.6	83.6	150.5	225.8	270.4	354.0	407.0	448.8	462.7
22.3	77.5°	27.9	64.1	125.4	175.6	211.8	287.1	273.2	312.2	345.6
16.7	80°	19.5	47.4	97.6	144.9	147.7	184.0	217.4	250.9	273.2
11.1	82.5°	13.9	39.0	72.5	111.5	97.6	142.2	170.0	195.1	142.2
8.4	85°	11.1	27.9	36.2	66.9	55.7	100.3	86.4	83.6	55.7
5.6	87.5°	8.4	13.9	25.1	30.7	22.3	22.3	27.9	33.4	27.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8183.7
7980.2
8035.9
8083.3
8153.0
8295.1
8534.9
8849.8
9195.5
9485.3
9638.6
9463.0
9287.4
9123.0
8950.2
8749.5
8532.1
8297.9
8041.5
7709.8
7269.4
6876.4
6486.2
5488.3
4404.0
3113.5
1605.5
956.1
744.2
607.6
454.3
351.2
275.9
103.1
55.7
27.9
0.0

(END OF REPORT)