

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: P638252

Luminaire Tested: **IFLD-S-SA3C-827-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638252
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-827-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11976.9 lumens
Efficiency: N/A
Efficacy: 74.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

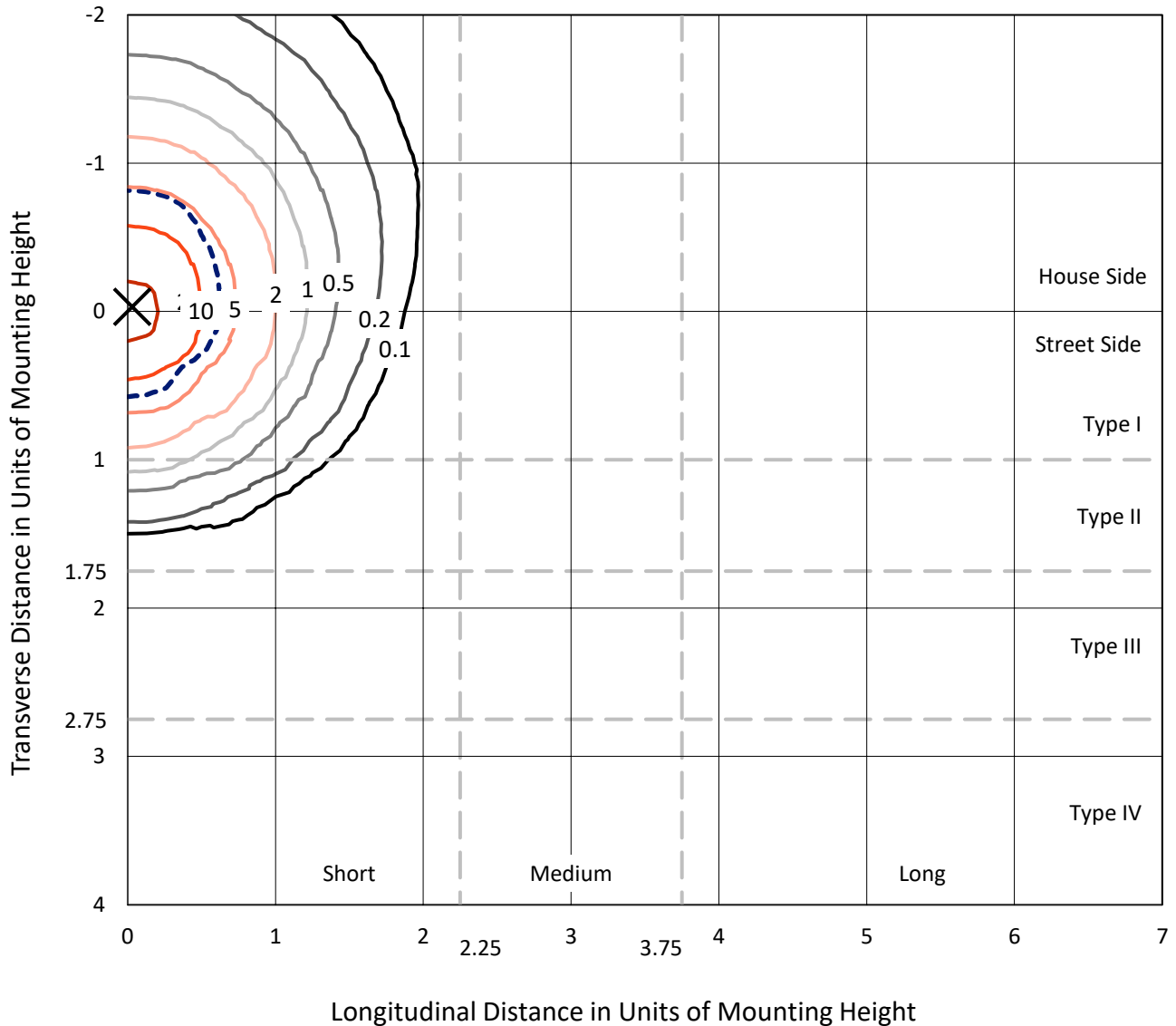
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

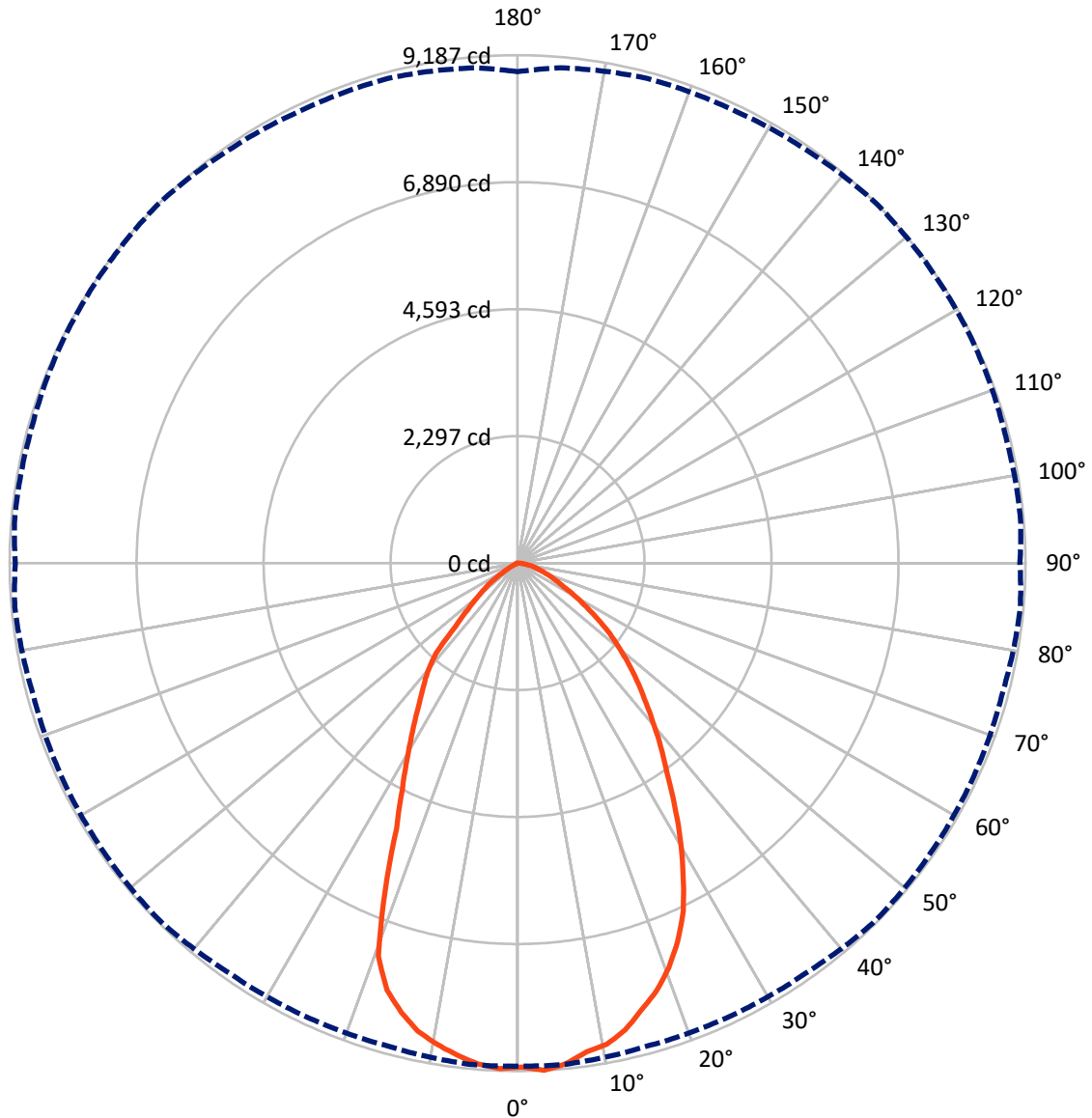
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.8 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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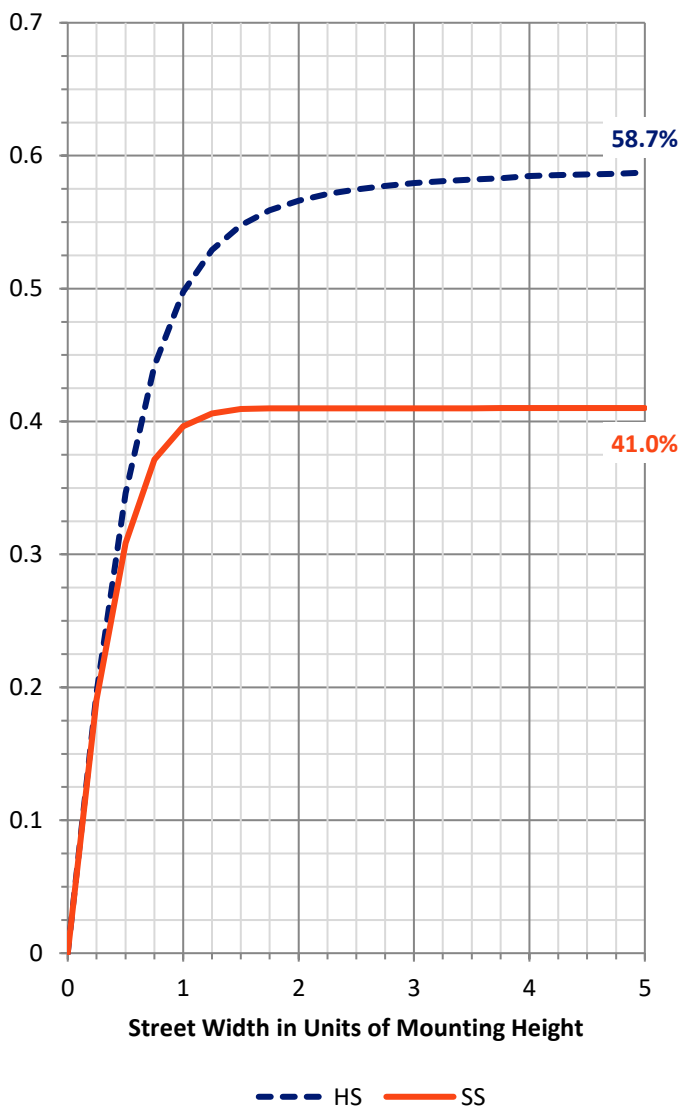
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7093.3	0.0	7093.3
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4883.6	0.0	4883.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	11976.9	0.0	11976.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	854.8	7.1
10°-20°	2292.2	19.1
20°-30°	2795.4	23.3
30°-40°	2552.2	21.3
40°-50°	1844.4	15.4
50°-60°	1007.1	8.4
60°-70°	416.4	3.5
70°-80°	168.6	1.4
80°-90°	45.9	0.4
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°	11976.9	100.0
0°-180°	11976.9	100.0



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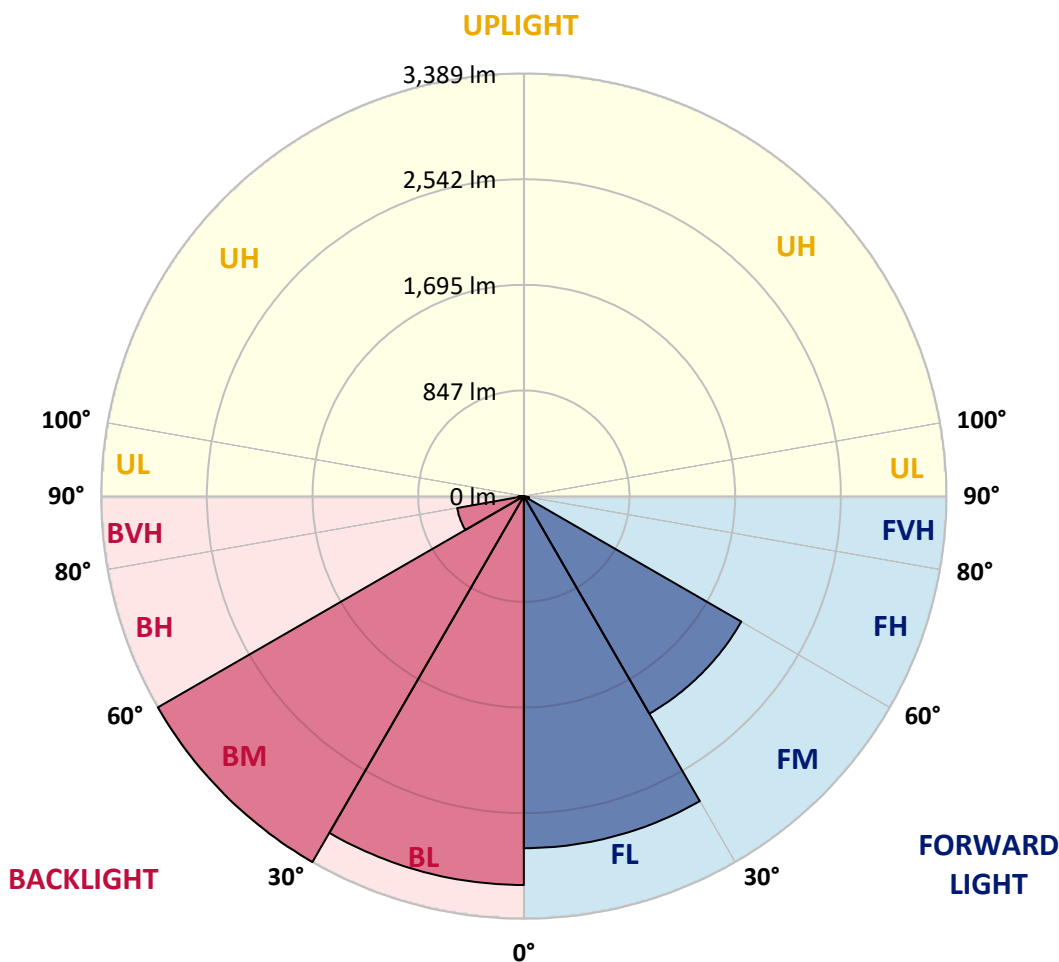
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2823.4	23.6			
FM (30°-60°)	2014.3	16.8			
FH (60°-80°)	42.2	0.4			G0/660
FVH (80°-90°)	3.7	0.0			G0/10
BL (0°-30°)	3118.9	26.0	B4/5000		
BM (30°-60°)	3389.4	28.3	B3/5000		
BH (60°-80°)	542.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	42.2	0.4			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°	9114.4	9114.4	9114.4	9114.4	9114.4	9114.4	9114.4	9114.4	9114.4	9114.4
2.5°	9097.5	9109.3	9045.2	9052.0	9063.8	9149.8	9127.9	9107.6	9078.9	9127.9
5°	9085.7	9092.4	9025.0	9001.4	9011.5	9089.1	9018.2	9018.2	9011.5	9003.0
7.5°	8994.6	8998.0	8945.7	8903.5	8930.5	8965.9	8913.7	8939.0	8901.9	8930.5
10°	8858.0	8836.1	8773.7	8761.9	8792.2	8826.0	8790.5	8814.1	8780.4	8802.3
12.5°	8657.3	8623.6	8573.0	8557.8	8610.1	8655.6	8626.9	8613.4	8569.6	8623.6
15°	7883.1	7857.8	7972.5	8173.2	8353.7	8392.5	8362.1	8375.6	8284.6	8299.7
17.5°	6488.3	6441.1	6564.2	7039.8	7717.9	8075.4	8048.4	7960.7	7825.8	7856.2
20°	5896.3	5882.8	5869.4	5982.4	6456.3	7540.8	7577.9	7355.2	7163.0	7120.8
22.5°	5562.4	5557.3	5543.8	5569.1	5693.9	6390.5	6815.5	6609.8	6481.6	6469.8
25°	5257.1	5248.7	5208.2	5240.3	5240.3	5280.7	5825.5	5950.3	5837.3	5823.8
27.5°	4946.8	4931.6	4924.9	4940.0	4862.5	4589.2	4727.5	5336.4	5277.4	5280.7
30°	4611.2	4606.1	4587.5	4619.6	4380.1	4041.1	3953.4	4779.8	4791.6	4788.2
32.5°	4111.9	4133.8	4218.2	4253.6	3858.9	3579.0	3432.2	4135.5	4376.7	4371.7
35°	2987.0	2987.0	3261.9	3772.9	3381.6	3170.8	3091.5	3506.4	3966.9	3983.7
37.5°	2455.7	2464.1	2518.1	2750.8	2917.8	2843.6	2820.0	2951.5	3440.7	3467.6
40°	2209.4	2209.4	2209.4	2113.3	2108.2	2561.9	2548.4	2506.3	2971.8	3030.8
42.5°	1985.1	1990.2	1993.6	1750.7	1615.8	2214.5	2184.1	2120.1	2551.8	2621.0
45°	1754.1	1762.5	1772.6	1464.0	1404.9	1593.8	1848.5	1777.7	2136.9	2226.3
47.5°	1071.0	1084.5	1313.9	1241.3	1248.1	1229.5	1507.8	1496.0	1752.4	1878.9
50°	723.5	728.6	750.5	787.6	1071.0	966.4	1067.6	1238.0	1330.7	1523.0
52.5°	607.2	615.6	561.6	511.0	703.3	755.6	745.5	919.2	956.3	1194.1
55°	426.7	453.7	428.4	423.3	399.7	586.9	565.0	706.7	730.3	907.4
57.5°	43.9	50.6	87.7	315.4	261.4	332.3	403.1	517.8	541.4	669.6
60°	3.4	3.4	8.4	43.9	190.6	199.0	278.3	318.8	364.3	467.2
62.5°	0.0	1.7	3.4	6.7	30.4	106.3	140.0	167.0	219.3	301.9
65°	0.0	0.0	1.7	5.1	6.7	40.5	54.0	87.7	119.7	187.2
67.5°	0.0	0.0	1.7	3.4	5.1	10.1	18.6	32.0	64.1	106.3
70°	0.0	0.0	1.7	3.4	5.1	8.4	13.5	20.2	28.7	57.3
72.5°	0.0	0.0	1.7	1.7	3.4	8.4	10.1	13.5	20.2	28.7
75°	0.0	0.0	1.7	1.7	5.1	10.1	8.4	10.1	13.5	18.6
77.5°	0.0	0.0	1.7	3.4	5.1	10.1	8.4	10.1	10.1	11.8
80°	0.0	0.0	1.7	3.4	6.7	11.8	10.1	10.1	8.4	8.4
82.5°	0.0	0.0	1.7	5.1	6.7	15.2	15.2	13.5	6.7	5.1
85°	0.0	0.0	3.4	6.7	10.1	16.9	16.9	13.5	5.1	3.4
87.5°	0.0	0.0	3.4	5.1	8.4	11.8	16.9	13.5	5.1	1.7
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°
9114.4	0°	9114.4	9114.4	9114.4	9114.4	9114.4	9114.4	9114.4	9114.4	9114.4
9085.7	2.5°	9131.2	9121.1	9154.8	9168.3	9186.9	9116.0	9072.2	9073.9	8992.9
8982.8	5°	9036.8	9038.5	9082.3	9078.9	9097.5	9058.7	9041.8	9013.2	8942.3
8852.9	7.5°	8917.0	8901.9	8944.0	8976.1	8928.8	8955.8	8917.0	8930.5	8888.4
8738.3	10°	8824.3	8788.8	8827.6	8849.6	8851.3	8824.3	8787.2	8751.7	8736.6
8559.5	12.5°	8618.5	8573.0	8638.7	8669.1	8664.0	8611.8	8569.6	8578.0	8529.1
8245.8	15°	8335.2	8336.8	8384.1	8412.7	8385.8	8373.9	8377.3	8357.1	8314.9
7812.3	17.5°	7901.7	7927.0	8051.8	8121.0	8136.1	8112.5	8100.7	8077.1	8034.9
7120.8	20°	7179.8	7331.6	7554.3	7768.5	7810.6	7803.9	7761.7	7751.6	7728.0
6436.0	22.5°	6545.7	6658.7	6916.7	7250.7	7422.7	7439.6	7389.0	7373.8	7348.5
5823.8	25°	5889.6	6011.0	6243.8	6606.4	6962.3	7034.8	7026.4	6980.8	6953.8
5280.7	27.5°	5336.4	5457.8	5668.6	5995.8	6377.0	6609.8	6631.7	6559.2	6557.5
4796.7	30°	4837.2	5004.1	5164.4	5430.8	5800.2	6149.3	6186.4	6135.8	6140.9
4353.1	32.5°	4445.9	4584.2	4720.8	4899.6	5206.5	5613.0	5758.0	5710.8	5692.3
3983.7	35°	4046.1	4140.6	4280.6	4444.2	4653.3	5056.4	5307.7	5272.3	5253.7
3484.5	37.5°	3590.8	3752.7	3853.9	4037.7	4201.3	4521.8	4875.9	4870.9	4832.1
3059.5	40°	3123.6	3293.9	3447.4	3632.9	3759.4	4014.1	4407.1	4405.4	4410.4
2619.3	42.5°	2700.2	2857.1	3042.6	3245.0	3366.4	3552.0	3973.6	3997.2	4025.9
2256.7	45°	2317.4	2459.1	2631.1	2877.3	3024.1	3130.3	3504.7	3612.7	3611.0
1932.8	47.5°	1973.3	2106.6	2251.6	2491.1	2678.3	2774.4	3084.8	3238.3	3228.1
1585.4	50°	1656.2	1774.3	1926.1	2099.8	2351.1	2435.4	2666.5	2868.9	2853.7
1263.3	52.5°	1332.4	1496.0	1624.2	1782.7	2047.5	2130.2	2308.9	2506.3	2494.5
947.9	55°	1038.9	1197.5	1352.6	1489.3	1711.9	1835.0	1963.2	2165.6	2162.2
742.1	57.5°	786.0	959.7	1106.4	1236.3	1413.4	1565.2	1668.0	1851.9	1875.5
507.7	60°	581.9	715.1	873.7	1018.7	1158.7	1315.5	1384.7	1565.2	1575.3
347.4	62.5°	396.3	543.1	698.3	829.8	934.4	1096.3	1158.7	1307.1	1325.7
222.6	65°	274.9	369.4	546.5	640.9	769.1	907.4	969.8	1087.9	1125.0
128.2	67.5°	182.2	263.1	426.7	512.7	639.2	733.7	812.9	909.1	949.6
81.0	70°	99.5	194.0	305.3	404.8	514.4	605.5	683.1	760.7	796.1
37.1	72.5°	67.5	129.9	212.5	320.5	414.9	504.3	573.4	630.8	632.5
21.9	75°	33.7	87.7	161.9	247.9	323.8	411.5	473.9	507.7	467.2
13.5	77.5°	20.2	64.1	131.6	199.0	263.1	332.3	367.7	386.2	320.5
10.1	80°	11.8	45.5	102.9	158.5	182.2	244.6	278.3	283.3	214.2
6.7	82.5°	8.4	33.7	81.0	116.4	111.3	172.0	209.1	202.4	136.6
5.1	85°	5.1	23.6	50.6	72.5	67.5	113.0	121.4	124.8	79.3
3.4	87.5°	3.4	13.5	27.0	38.8	32.0	48.9	48.9	59.0	38.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9114.4
8888.4
8925.5
8817.5
8669.1
8486.9
8272.8
8016.4
7674.0
7341.7
6925.2
6554.1
6115.6
5693.9
5228.4
4864.1
4410.4
4010.7
3614.4
3231.5
2867.2
2519.8
2170.6
1865.4
1590.5
1329.0
1116.5
944.5
782.6
617.3
436.8
308.6
200.7
126.5
72.5
33.7
0.0

(END OF REPORT)