

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: P638281

Luminaire Tested: **IFLD-S-SA3C-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638281
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12946.3 lumens
Efficiency: N/A
Efficacy: 80.5 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

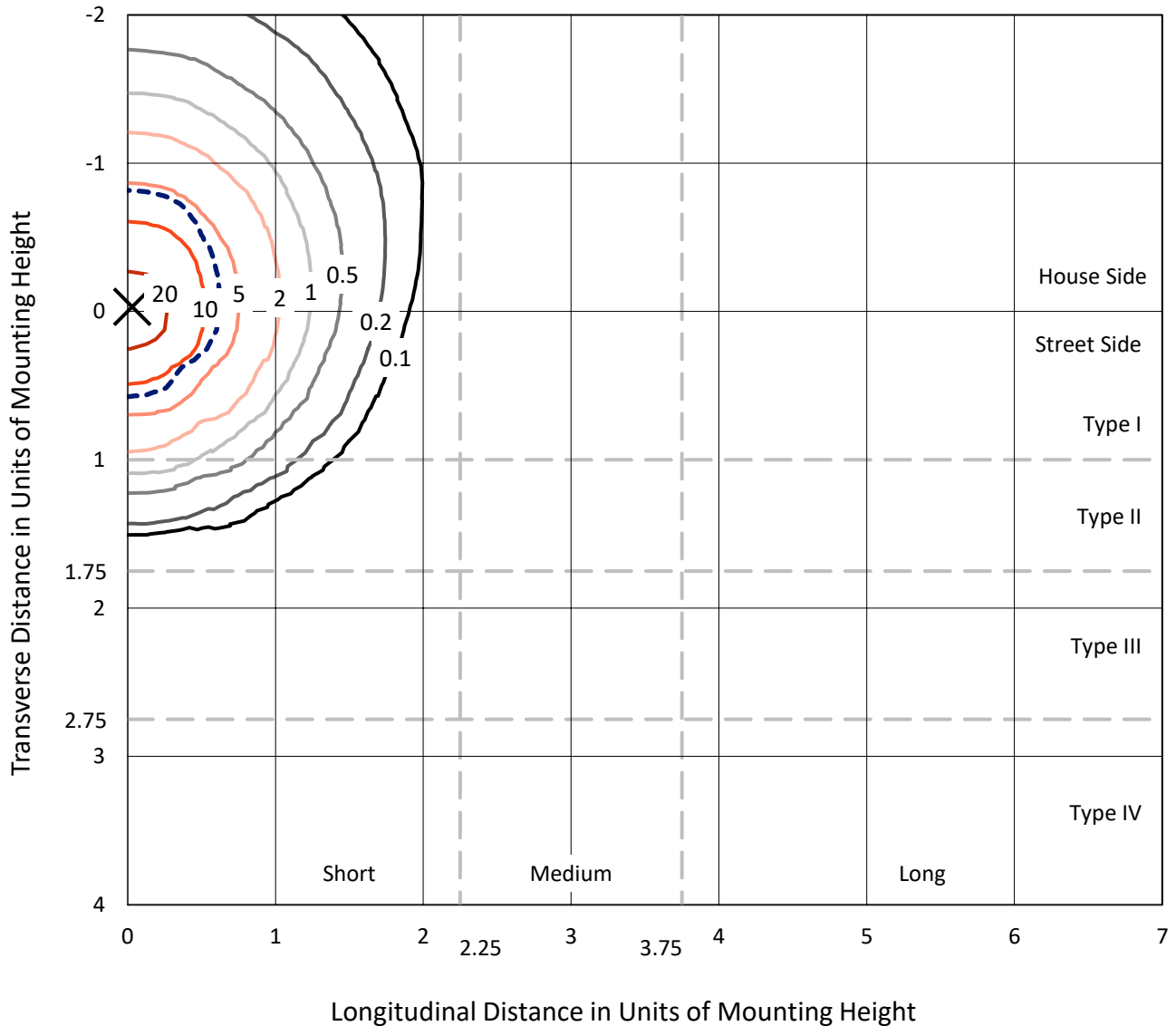
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

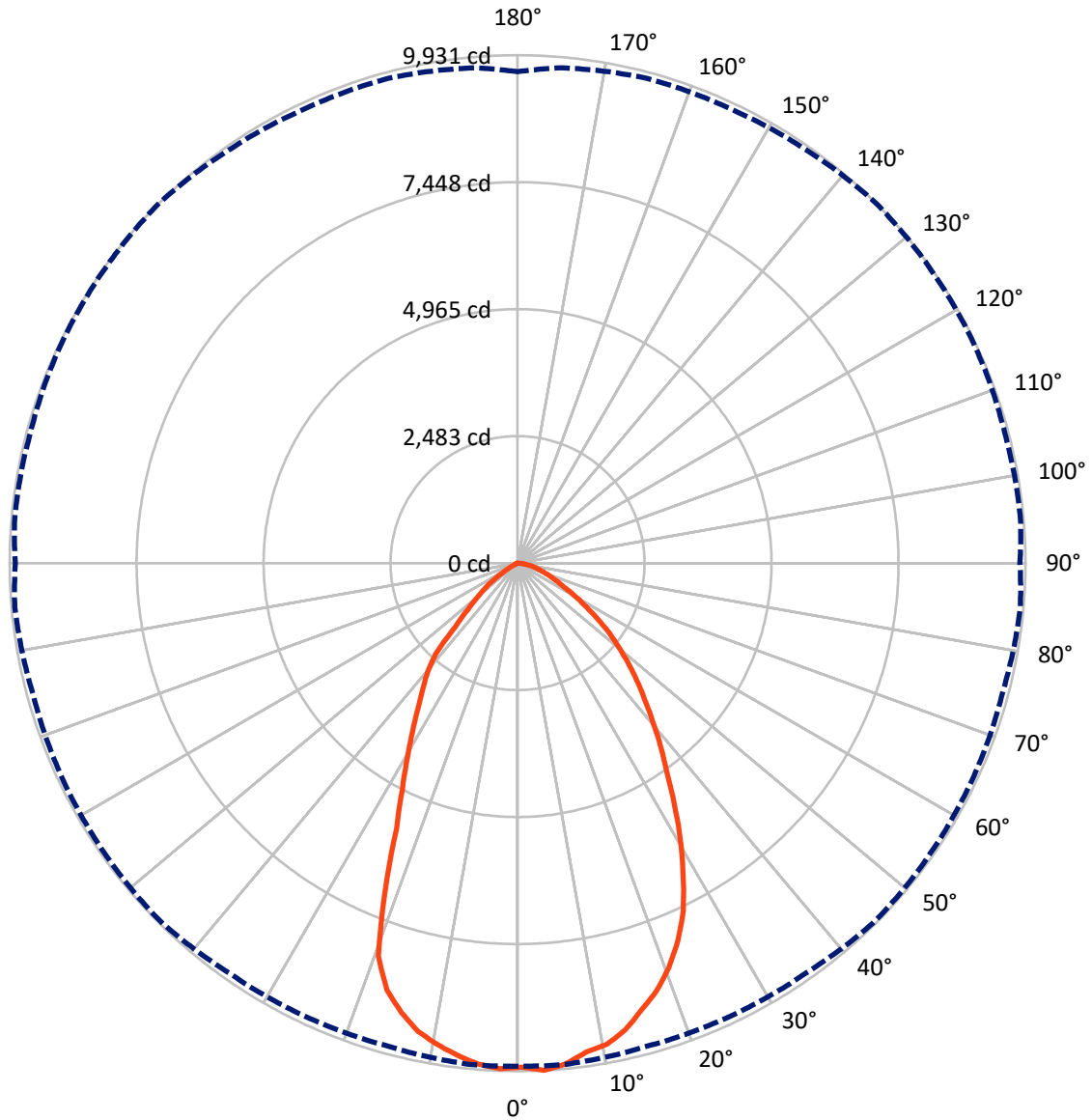
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 24.6 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	7667.5	0.0	7667.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5278.8	0.0	5278.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	12946.3	0.0	12946.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	924.0	7.1
10°-20°	2477.7	19.1
20°-30°	3021.7	23.3
30°-40°	2758.8	21.3
40°-50°	1993.7	15.4
50°-60°	1088.6	8.4
60°-70°	450.1	3.5
70°-80°	182.3	1.4
80°-90°	49.6	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°	12946.3	100.0
0°-180°	12946.3	100.0



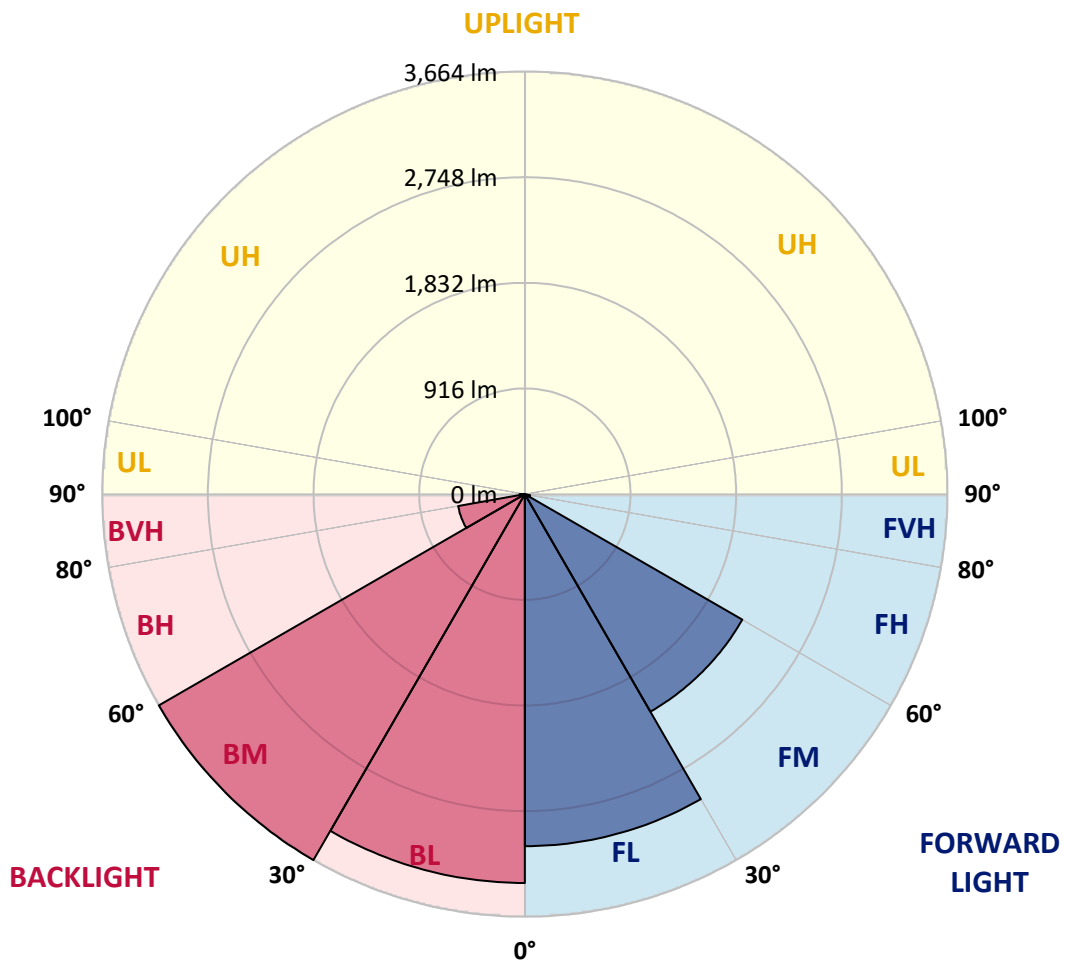
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3051.9	23.6			
FM (30°-60°)	2177.3	16.8			
FH (60°-80°)	45.6	0.4			G0/660
FVH (80°-90°)	4.0	0.0			G0/10
BL (0°-30°)	3371.4	26.0	B4/5000		
BM (30°-60°)	3663.7	28.3	B3/5000		
BH (60°-80°)	586.8	4.5	B2/1000		G2/1000
BVH (80°-90°)	45.6	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°	9852.1	9852.1	9852.1	9852.1	9852.1	9852.1	9852.1	9852.1	9852.1	9852.1
2.5°	9833.9	9846.6	9777.3	9784.6	9797.4	9890.4	9866.7	9844.8	9813.8	9866.7
5°	9821.1	9828.4	9755.5	9729.9	9740.9	9824.7	9748.2	9748.2	9740.9	9731.8
7.5°	9722.6	9726.3	9669.8	9624.2	9653.4	9691.7	9635.1	9662.5	9622.4	9653.4
10°	9575.0	9551.3	9483.8	9471.1	9503.9	9540.3	9502.1	9527.6	9491.1	9514.8
12.5°	9358.0	9321.6	9266.9	9250.5	9307.0	9356.2	9325.2	9310.6	9263.2	9321.6
15°	8521.2	8493.9	8617.8	8834.8	9029.9	9071.8	9039.0	9053.6	8955.1	8971.5
17.5°	7013.5	6962.5	7095.5	7609.7	8342.6	8729.1	8699.9	8605.1	8459.2	8492.0
20°	6373.6	6359.0	6344.4	6466.6	6978.9	8151.1	8191.2	7950.6	7742.8	7697.2
22.5°	6012.6	6007.1	5992.6	6019.9	6154.8	6907.8	7367.2	7144.8	7006.2	6993.5
25°	5682.6	5673.5	5629.8	5664.4	5664.4	5708.2	6297.0	6431.9	6309.8	6295.2
27.5°	5347.2	5330.8	5323.5	5339.9	5256.0	4960.7	5110.2	5768.3	5704.5	5708.2
30°	4984.4	4978.9	4958.9	4993.5	4734.6	4368.2	4273.4	5166.7	5179.5	5175.8
32.5°	4444.7	4468.4	4559.6	4597.9	4171.3	3868.6	3710.0	4470.3	4731.0	4725.5
35°	3228.7	3228.7	3525.9	4078.3	3655.3	3427.4	3341.8	3790.2	4288.0	4306.2
37.5°	2654.4	2663.6	2721.9	2973.5	3154.0	3073.8	3048.2	3190.4	3719.1	3748.3
40°	2388.3	2388.3	2388.3	2284.4	2278.9	2769.3	2754.7	2709.1	3212.3	3276.1
42.5°	2145.8	2151.3	2154.9	1892.4	1746.5	2393.7	2360.9	2291.7	2758.4	2833.1
45°	1896.0	1905.2	1916.1	1582.5	1518.7	1722.8	1998.1	1921.6	2309.9	2406.5
47.5°	1157.7	1172.3	1420.2	1341.8	1349.1	1329.0	1629.9	1617.1	1894.2	2030.9
50°	782.1	787.6	811.3	851.4	1157.7	1044.6	1154.0	1338.2	1438.4	1646.3
52.5°	656.3	665.4	607.1	552.4	760.2	816.8	805.8	993.6	1033.7	1290.8
55°	461.2	490.4	463.1	457.6	432.1	634.4	610.7	763.9	789.4	980.8
57.5°	47.4	54.7	94.8	340.9	282.6	359.2	435.7	559.7	585.2	723.8
60°	3.6	3.6	9.1	47.4	206.0	215.1	300.8	344.6	393.8	505.0
62.5°	0.0	1.8	3.6	7.3	32.8	114.9	151.3	180.5	237.0	326.3
65°	0.0	0.0	1.8	5.5	7.3	43.8	58.3	94.8	129.4	202.4
67.5°	0.0	0.0	1.8	3.6	5.5	10.9	20.1	34.6	69.3	114.9
70°	0.0	0.0	1.8	3.6	5.5	9.1	14.6	21.9	31.0	62.0
72.5°	0.0	0.0	1.8	1.8	3.6	9.1	10.9	14.6	21.9	31.0
75°	0.0	0.0	1.8	1.8	5.5	10.9	9.1	10.9	14.6	20.1
77.5°	0.0	0.0	1.8	3.6	5.5	10.9	9.1	10.9	10.9	12.8
80°	0.0	0.0	1.8	3.6	7.3	12.8	10.9	10.9	9.1	9.1
82.5°	0.0	0.0	1.8	5.5	7.3	16.4	16.4	14.6	7.3	5.5
85°	0.0	0.0	3.6	7.3	10.9	18.2	18.2	14.6	5.5	3.6
87.5°	0.0	0.0	3.6	5.5	9.1	12.8	18.2	14.6	5.5	1.8
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°
9852.1	0°	9852.1	9852.1	9852.1	9852.1	9852.1	9852.1	9852.1	9852.1	9852.1
9821.1	2.5°	9870.3	9859.4	9895.8	9910.4	9930.5	9853.9	9806.5	9808.3	9720.8
9709.9	5°	9768.2	9770.1	9817.5	9813.8	9833.9	9791.9	9773.7	9742.7	9666.1
9569.5	7.5°	9638.8	9622.4	9668.0	9702.6	9651.5	9680.7	9638.8	9653.4	9607.8
9445.5	10°	9538.5	9500.2	9542.2	9565.9	9567.7	9538.5	9498.4	9460.1	9443.7
9252.3	12.5°	9316.1	9266.9	9338.0	9370.8	9365.3	9308.8	9263.2	9272.3	9219.5
8913.2	15°	9009.8	9011.6	9062.7	9093.7	9064.5	9051.7	9055.4	9033.5	8987.9
8444.6	17.5°	8541.3	8568.6	8703.5	8778.3	8794.7	8769.2	8756.4	8730.9	8685.3
7697.2	20°	7761.0	7925.1	8165.7	8397.2	8442.8	8435.5	8390.0	8379.0	8353.5
6957.0	22.5°	7075.5	7197.6	7476.6	7837.6	8023.5	8041.7	7987.0	7970.6	7943.3
6295.2	25°	6366.3	6497.6	6749.2	7141.1	7525.8	7604.2	7595.1	7545.9	7516.7
5708.2	27.5°	5768.3	5899.6	6127.5	6481.2	6893.2	7144.8	7168.5	7090.1	7088.3
5184.9	30°	5228.7	5409.2	5582.4	5870.4	6269.7	6647.1	6687.2	6632.5	6637.9
4705.4	32.5°	4805.7	4955.2	5102.9	5296.1	5627.9	6067.3	6224.1	6173.1	6153.0
4306.2	35°	4373.6	4475.7	4627.1	4803.9	5030.0	5465.7	5737.3	5699.0	5679.0
3766.5	37.5°	3881.4	4056.4	4165.8	4364.5	4541.4	4887.8	5270.6	5265.1	5223.2
3307.1	40°	3376.4	3560.5	3726.4	3927.0	4063.7	4339.0	4763.8	4762.0	4767.4
2831.3	42.5°	2918.8	3088.3	3288.9	3507.7	3638.9	3839.5	4295.2	4320.8	4351.8
2439.3	45°	2505.0	2658.1	2844.1	3110.2	3268.8	3383.7	3788.4	3905.1	3903.3
2089.3	47.5°	2133.0	2277.1	2433.9	2692.7	2895.1	2999.0	3334.5	3500.4	3489.4
1713.7	50°	1790.3	1917.9	2082.0	2269.8	2541.4	2632.6	2882.3	3101.1	3084.7
1365.5	52.5°	1440.3	1617.1	1755.7	1927.0	2213.3	2302.6	2495.8	2709.1	2696.4
1024.6	55°	1123.0	1294.4	1462.1	1609.8	1850.5	1983.5	2122.1	2340.9	2337.2
802.2	57.5°	849.6	1037.4	1196.0	1336.3	1527.8	1691.8	1803.1	2001.8	2027.3
548.8	60°	629.0	773.0	944.4	1101.2	1252.5	1422.0	1496.8	1691.8	1702.8
375.6	62.5°	428.4	587.0	754.8	897.0	1010.0	1185.0	1252.5	1412.9	1433.0
240.7	65°	297.2	399.3	590.7	692.8	831.3	980.8	1048.3	1175.9	1216.0
138.6	67.5°	196.9	284.4	461.2	554.2	691.0	793.1	878.7	982.7	1026.4
87.5	70°	107.6	209.7	330.0	437.5	556.0	654.5	738.4	822.2	860.5
40.1	72.5°	72.9	140.4	229.7	346.4	448.5	545.1	619.9	681.8	683.7
23.7	75°	36.5	94.8	175.0	268.0	350.0	444.8	512.3	548.8	505.0
14.6	77.5°	21.9	69.3	142.2	215.1	284.4	359.2	397.4	417.5	346.4
10.9	80°	12.8	49.2	111.2	171.4	196.9	264.4	300.8	306.3	231.5
7.3	82.5°	9.1	36.5	87.5	125.8	120.3	186.0	226.1	218.8	147.7
5.5	85°	5.5	25.5	54.7	78.4	72.9	122.1	131.3	134.9	85.7
3.6	87.5°	3.6	14.6	29.2	41.9	34.6	52.9	52.9	63.8	41.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9852.1
9607.8
9647.9
9531.2
9370.8
9173.9
8942.4
8665.2
8295.2
7936.0
7485.7
7084.6
6610.6
6154.8
5651.6
5257.9
4767.4
4335.4
3906.9
3493.1
3099.3
2723.7
2346.3
2016.4
1719.2
1436.6
1206.9
1020.9
845.9
667.3
472.2
333.6
217.0
136.7
78.4
36.5
0.0

(END OF REPORT)