

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: P638162

Luminaire Tested: **IFLD-S-SA2E-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638162
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13921.8 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

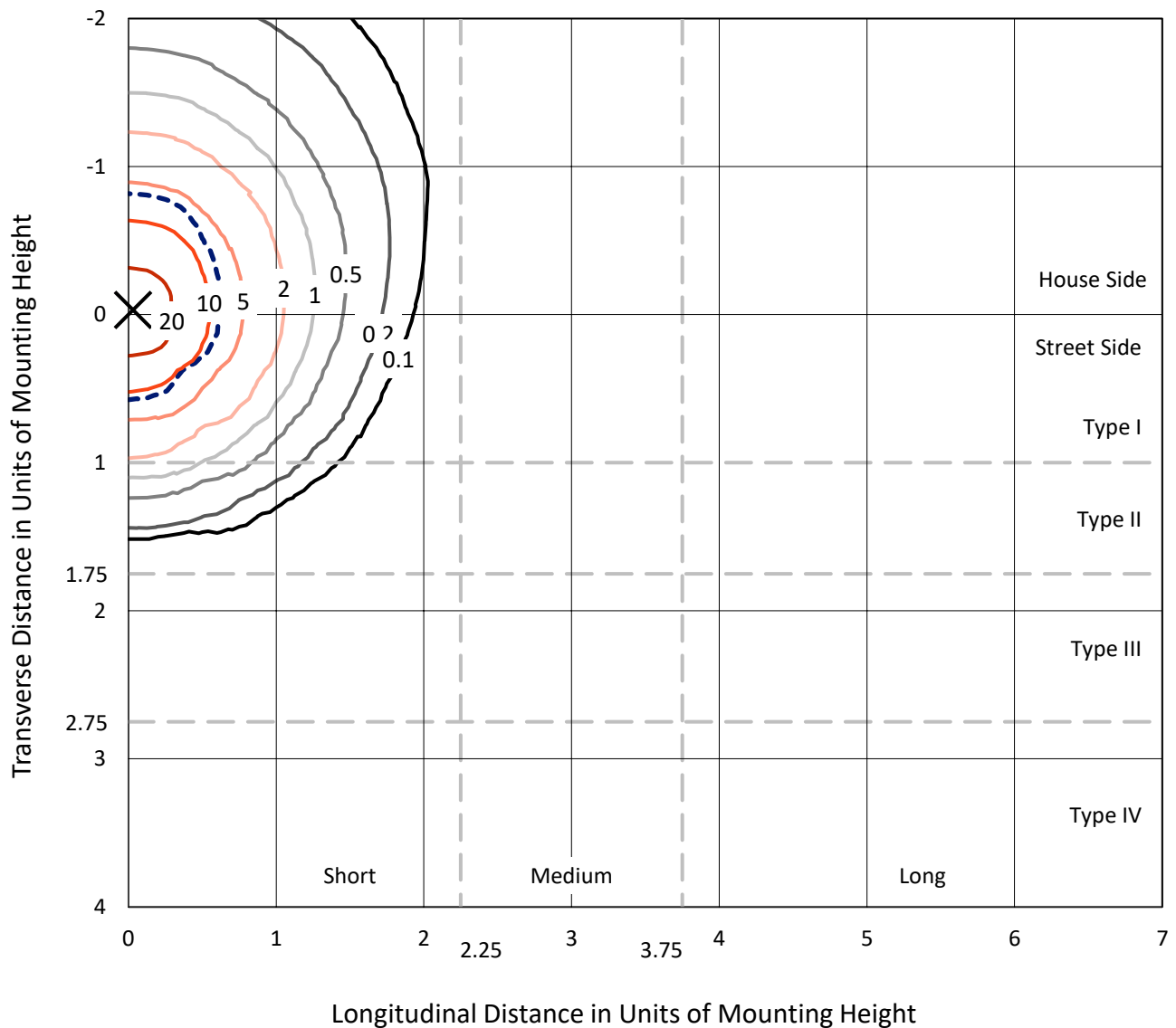
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

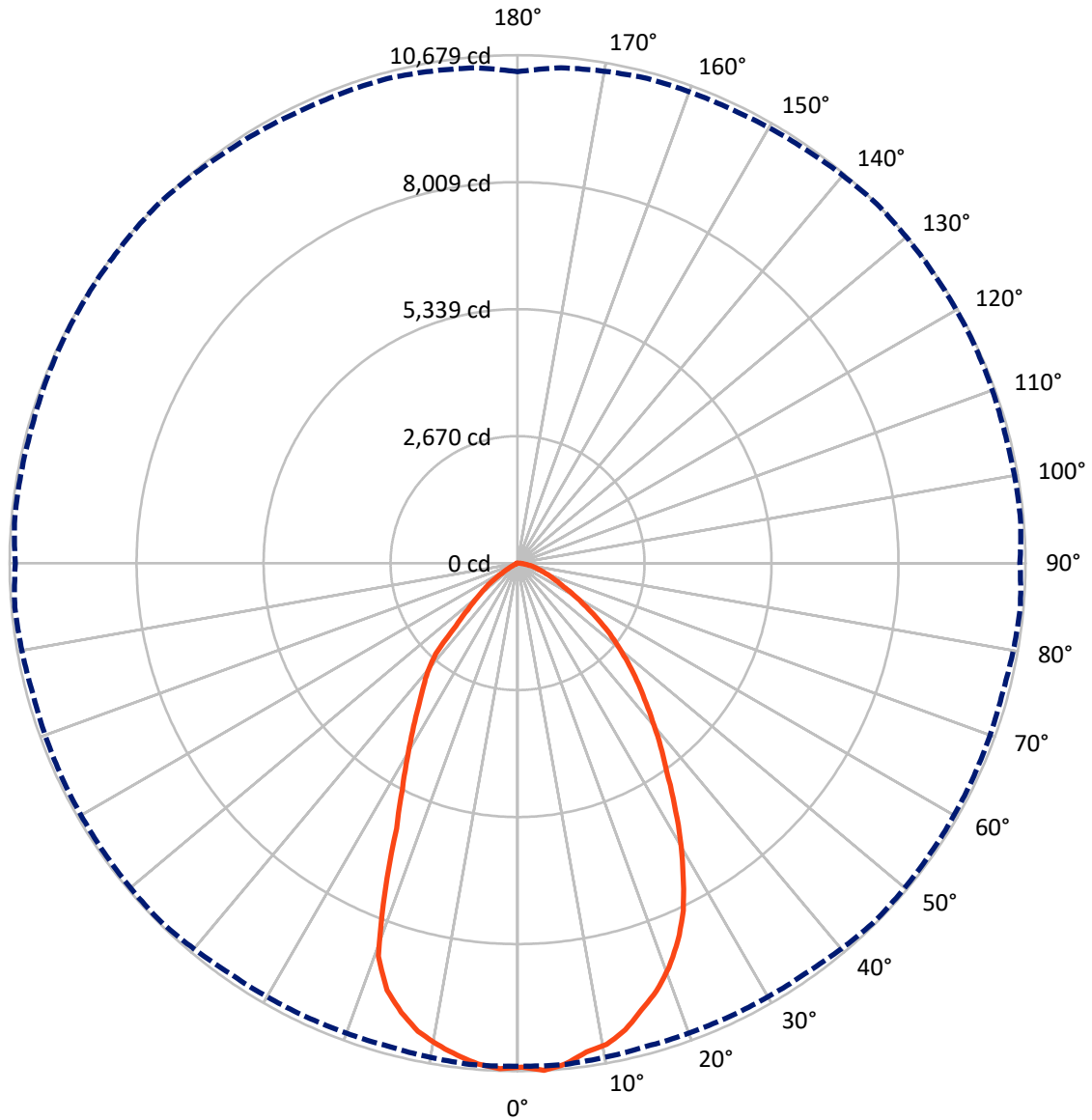
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 26.5 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	8245.2	0.0	8245.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	5676.6	0.0	5676.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	13921.8	0.0	13921.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	993.6	7.1
10°-20°	2664.4	19.1
20°-30°	3249.3	23.3
30°-40°	2966.6	21.3
40°-50°	2143.9	15.4
50°-60°	1170.6	8.4
60°-70°	484.0	3.5
70°-80°	196.0	1.4
80°-90°	53.3	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°	13921.8	100.0
0°-180°	13921.8	100.0



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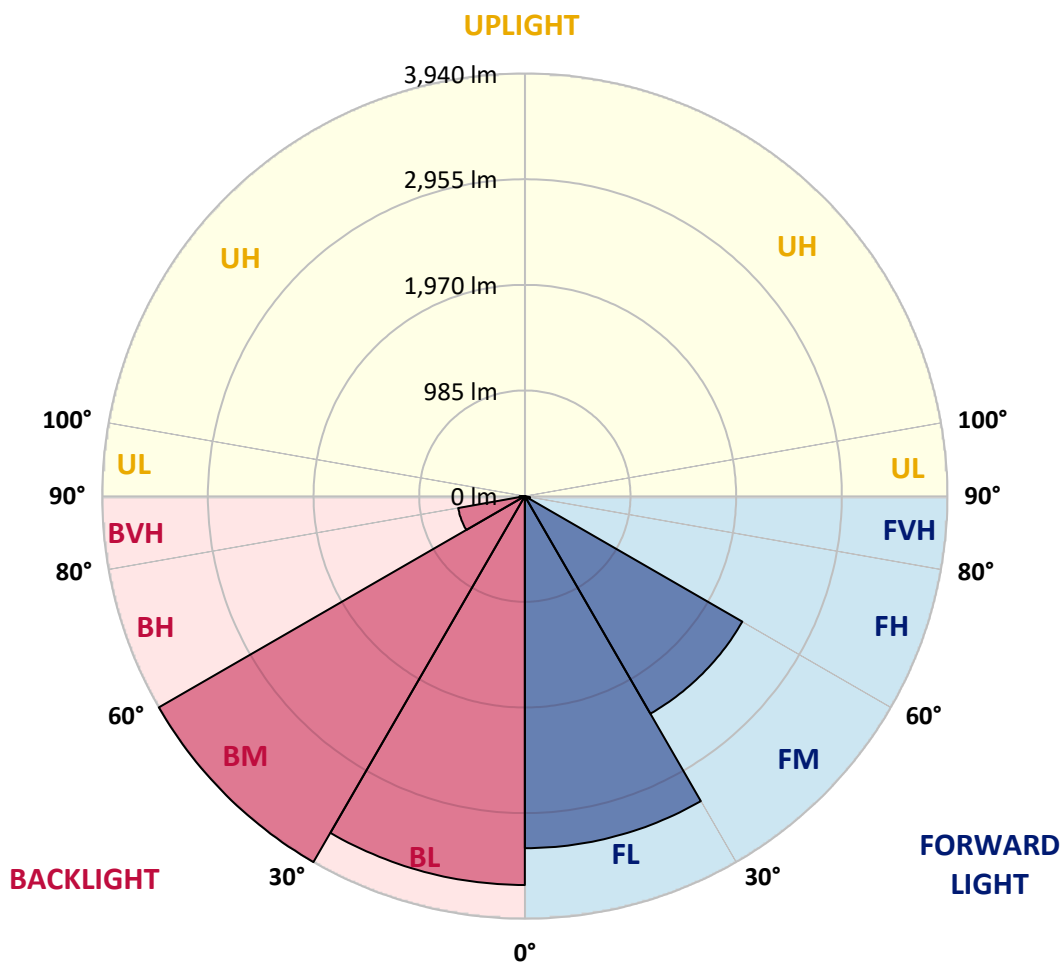
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3281.9	23.6			
FM (30°-60°)	2341.4	16.8			
FH (60°-80°)	49.1	0.4			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	3625.4	26.0	B4/5000		
BM (30°-60°)	3939.7	28.3	B3/5000		
BH (60°-80°)	631.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	49.1	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°	10594.4	10594.4	10594.4	10594.4	10594.4	10594.4	10594.4	10594.4	10594.4	10594.4
2.5°	10574.8	10588.5	10514.0	10521.9	10535.6	10635.6	10610.1	10586.6	10553.2	10610.1
5°	10561.1	10568.9	10490.5	10463.1	10474.8	10565.0	10482.7	10482.7	10474.8	10465.0
7.5°	10455.2	10459.1	10398.4	10349.3	10380.7	10421.9	10361.1	10390.5	10347.4	10380.7
10°	10296.4	10270.9	10198.4	10184.7	10220.0	10259.2	10218.0	10245.4	10206.2	10231.7
12.5°	10063.1	10023.9	9965.1	9947.5	10008.2	10061.2	10027.8	10012.1	9961.2	10023.9
15°	9163.3	9133.9	9267.2	9500.5	9710.2	9755.3	9720.0	9735.7	9629.9	9647.5
17.5°	7541.9	7487.1	7630.2	8183.0	8971.1	9386.8	9355.4	9253.4	9096.6	9131.9
20°	6853.8	6838.1	6822.5	6953.8	7504.7	8765.3	8808.4	8549.6	8326.1	8277.1
22.5°	6465.6	6459.8	6444.1	6473.5	6618.6	7428.2	7922.3	7683.1	7534.1	7520.4
25°	6110.8	6101.0	6053.9	6091.2	6091.2	6138.2	6771.5	6916.6	6785.2	6769.5
27.5°	5750.1	5732.4	5724.6	5742.2	5652.0	5334.5	5495.2	6202.9	6134.3	6138.2
30°	5359.9	5354.1	5332.5	5369.7	5091.4	4697.3	4595.4	5556.0	5569.7	5565.8
32.5°	4779.6	4805.1	4903.1	4944.3	4485.6	4160.1	3989.6	4807.1	5087.4	5081.6
35°	3472.0	3472.0	3791.6	4385.6	3930.8	3685.7	3593.6	4075.8	4611.0	4630.6
37.5°	2854.5	2864.3	2927.0	3197.5	3391.6	3305.4	3277.9	3430.8	3999.4	4030.7
40°	2568.2	2568.2	2568.2	2456.5	2450.6	2978.0	2962.3	2913.3	3454.4	3523.0
42.5°	2307.5	2313.4	2317.3	2035.0	1878.1	2574.1	2538.8	2464.3	2966.2	3046.6
45°	2038.9	2048.7	2060.5	1701.7	1633.1	1852.6	2148.7	2066.3	2483.9	2587.8
47.5°	1244.9	1260.6	1527.2	1442.9	1450.8	1429.2	1752.7	1738.9	2036.9	2184.0
50°	841.0	846.9	872.4	915.5	1244.9	1123.4	1241.0	1439.0	1546.8	1770.3
52.5°	705.8	715.6	652.8	594.0	817.5	878.3	866.5	1068.5	1111.6	1388.0
55°	496.0	527.4	498.0	492.1	464.6	682.2	656.8	821.4	848.9	1054.7
57.5°	51.0	58.8	101.9	366.6	303.9	386.2	468.6	601.9	629.3	778.3
60°	3.9	3.9	9.8	51.0	221.5	231.3	323.5	370.5	423.5	543.1
62.5°	0.0	2.0	3.9	7.8	35.3	123.5	162.7	194.1	254.9	350.9
65°	0.0	0.0	2.0	5.9	7.8	47.1	62.7	101.9	139.2	217.6
67.5°	0.0	0.0	2.0	3.9	5.9	11.8	21.6	37.2	74.5	123.5
70°	0.0	0.0	2.0	3.9	5.9	9.8	15.7	23.5	33.3	66.7
72.5°	0.0	0.0	2.0	2.0	3.9	9.8	11.8	15.7	23.5	33.3
75°	0.0	0.0	2.0	2.0	5.9	11.8	9.8	11.8	15.7	21.6
77.5°	0.0	0.0	2.0	3.9	5.9	11.8	9.8	11.8	11.8	13.7
80°	0.0	0.0	2.0	3.9	7.8	13.7	11.8	11.8	9.8	9.8
82.5°	0.0	0.0	2.0	5.9	7.8	17.6	17.6	15.7	7.8	5.9
85°	0.0	0.0	3.9	7.8	11.8	19.6	19.6	15.7	5.9	3.9
87.5°	0.0	0.0	3.9	5.9	9.8	13.7	19.6	15.7	5.9	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°
10594.4	0°	10594.4	10594.4	10594.4	10594.4	10594.4	10594.4	10594.4	10594.4	10594.4
10561.1	2.5°	10614.0	10602.2	10641.5	10657.1	10678.7	10596.4	10545.4	10547.4	10453.3
10441.5	5°	10504.2	10506.2	10557.2	10553.2	10574.8	10529.7	10510.1	10476.8	10394.4
10290.5	7.5°	10365.0	10347.4	10396.4	10433.6	10378.8	10410.1	10365.0	10380.7	10331.7
10157.2	10°	10257.2	10216.0	10261.1	10286.6	10288.6	10257.2	10214.1	10172.9	10155.3
9949.4	12.5°	10018.0	9965.1	10041.6	10076.8	10071.0	10010.2	9961.2	9971.0	9914.1
9584.8	15°	9688.7	9690.6	9745.5	9778.8	9747.5	9733.8	9737.7	9714.2	9665.1
9080.9	17.5°	9184.8	9214.2	9359.3	9439.7	9457.3	9429.9	9416.2	9388.7	9339.7
8277.1	20°	8345.7	8522.2	8781.0	9029.9	9079.0	9071.1	9022.1	9010.3	8982.9
7481.2	22.5°	7608.6	7740.0	8039.9	8428.1	8628.1	8647.7	8588.8	8571.2	8541.8
6769.5	25°	6846.0	6987.1	7257.7	7679.2	8092.8	8177.1	8167.3	8114.4	8083.0
6138.2	27.5°	6202.9	6344.1	6589.2	6969.5	7412.6	7683.1	7708.6	7624.3	7622.3
5575.6	30°	5622.6	5816.7	6003.0	6312.7	6742.1	7147.9	7191.0	7132.2	7138.1
5060.0	32.5°	5167.8	5328.6	5487.4	5695.2	6052.0	6524.5	6693.1	6638.2	6616.6
4630.6	35°	4703.2	4813.0	4975.7	5165.9	5409.0	5877.5	6169.6	6128.4	6106.9
4050.3	37.5°	4173.9	4362.1	4479.7	4693.4	4883.5	5256.0	5667.7	5661.9	5616.8
3556.3	40°	3630.8	3828.8	4007.2	4222.9	4369.9	4665.9	5122.7	5120.8	5126.6
3044.6	42.5°	3138.7	3321.0	3536.7	3772.0	3913.1	4128.8	4618.9	4646.3	4679.7
2623.1	45°	2693.7	2858.4	3058.3	3344.6	3515.1	3638.6	4073.9	4199.3	4197.4
2246.7	47.5°	2293.8	2448.6	2617.2	2895.6	3113.2	3225.0	3585.7	3764.1	3752.3
1842.8	50°	1925.2	2062.4	2238.9	2440.8	2732.9	2830.9	3099.5	3334.8	3317.1
1468.4	52.5°	1548.8	1738.9	1887.9	2072.2	2380.0	2476.1	2683.9	2913.3	2899.5
1101.8	55°	1207.7	1391.9	1572.3	1731.1	1989.9	2133.0	2282.0	2517.3	2513.3
862.6	57.5°	913.6	1115.5	1286.1	1437.0	1642.9	1819.3	1938.9	2152.6	2180.0
590.1	60°	676.4	831.2	1015.5	1184.1	1346.8	1529.2	1609.6	1819.3	1831.1
403.9	62.5°	460.7	631.3	811.6	964.6	1086.1	1274.3	1346.8	1519.4	1540.9
258.8	65°	319.6	429.3	635.2	745.0	894.0	1054.7	1127.3	1264.5	1307.6
149.0	67.5°	211.7	305.8	496.0	596.0	743.0	852.8	944.9	1056.7	1103.7
94.1	70°	115.7	225.5	354.8	470.5	597.9	703.8	794.0	884.2	925.3
43.1	72.5°	78.4	151.0	247.0	372.5	482.3	586.2	666.6	733.2	735.2
25.5	75°	39.2	101.9	188.2	288.2	376.4	478.4	550.9	590.1	543.1
15.7	77.5°	23.5	74.5	152.9	231.3	305.8	386.2	427.4	448.9	372.5
11.8	80°	13.7	52.9	119.6	184.3	211.7	284.3	323.5	329.4	249.0
7.8	82.5°	9.8	39.2	94.1	135.3	129.4	200.0	243.1	235.3	158.8
5.9	85°	5.9	27.4	58.8	84.3	78.4	131.4	141.2	145.1	92.1
3.9	87.5°	3.9	15.7	31.4	45.1	37.2	56.9	56.9	68.6	45.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
10594.4
10331.7
10374.8
10249.4
10076.8
9865.1
9616.1
9318.1
8920.2
8533.9
8049.7
7618.4
7108.7
6618.6
6077.5
5654.0
5126.6
4662.0
4201.3
3756.3
3332.8
2928.9
2523.1
2168.3
1848.7
1544.9
1297.8
1097.9
909.7
717.5
507.8
358.8
233.3
147.0
84.3
39.2
0.0

(END OF REPORT)