

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: P636716

Luminaire Tested: **IFLD-S-SA3D-927-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636716
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-927-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11349.8 lumens
Efficiency: N/A
Efficacy: 61.7 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

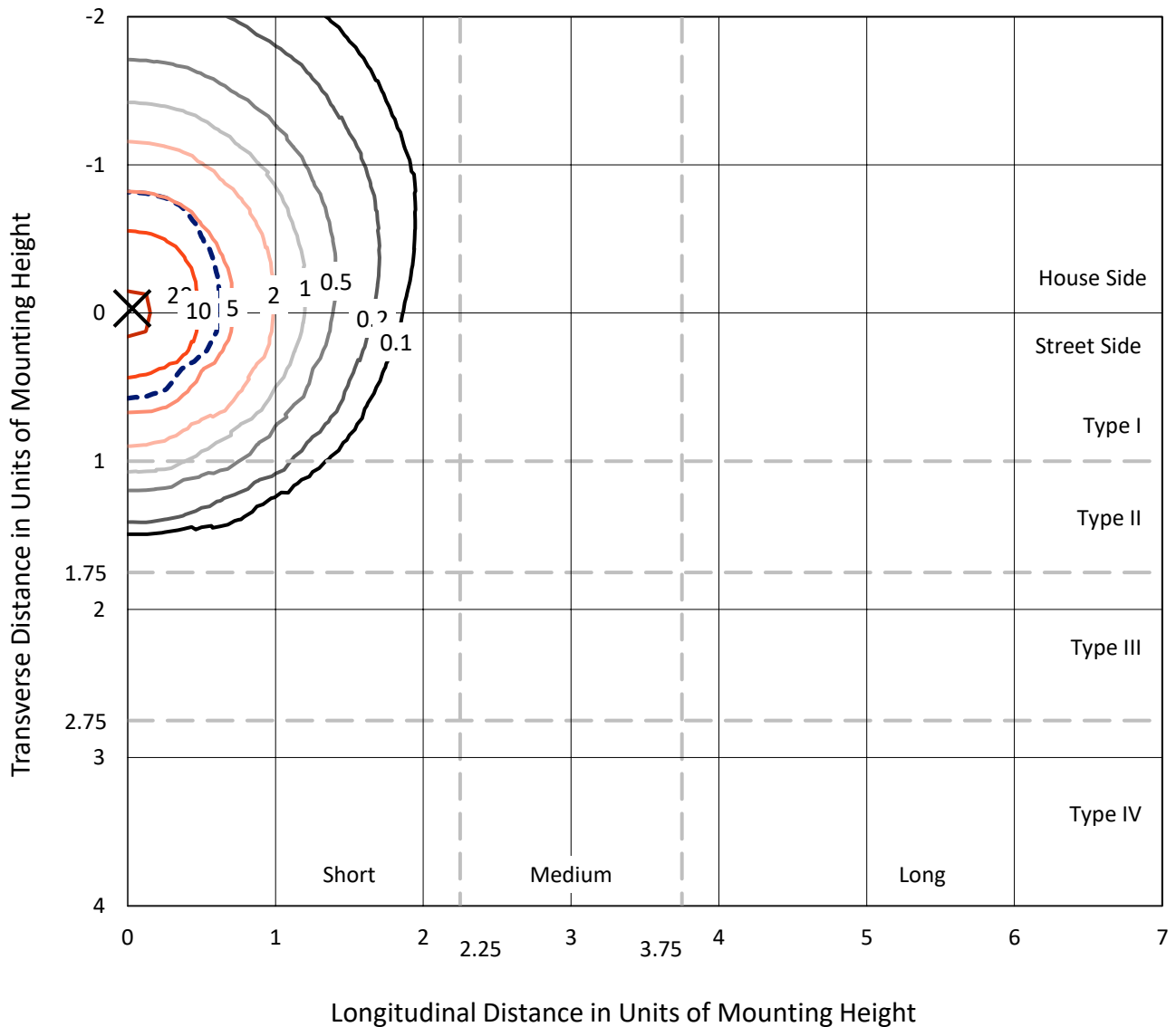
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

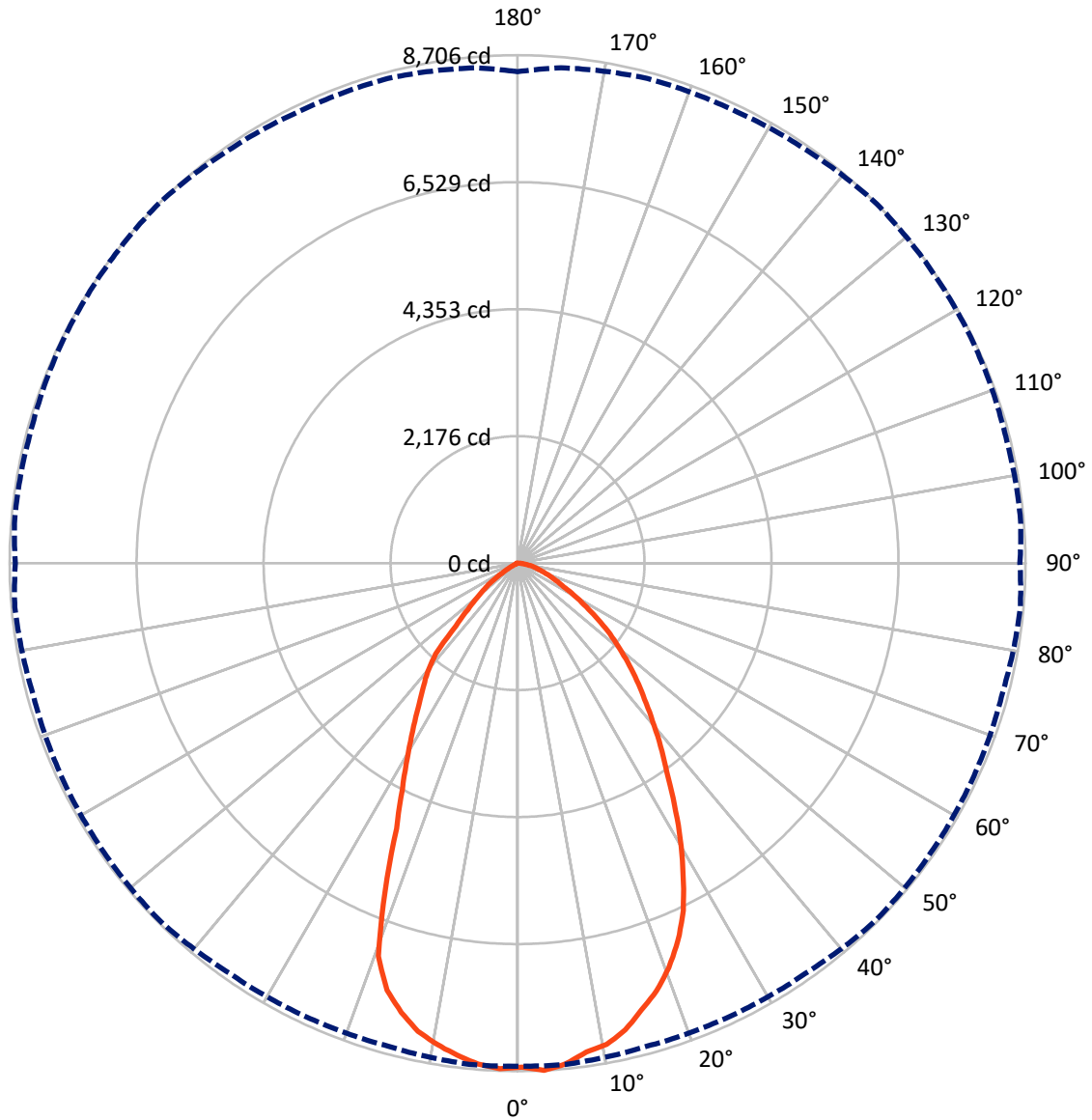
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.6 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	6722.0	0.0	6722.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4627.9	0.0	4627.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	11349.8	0.0	11349.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	810.0	7.1
10°-20°	2172.1	19.1
20°-30°	2649.1	23.3
30°-40°	2418.6	21.3
40°-50°	1747.8	15.4
50°-60°	954.3	8.4
60°-70°	394.6	3.5
70°-80°	159.8	1.4
80°-90°	43.5	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°	11349.8	100.0
0°-180°	11349.8	100.0



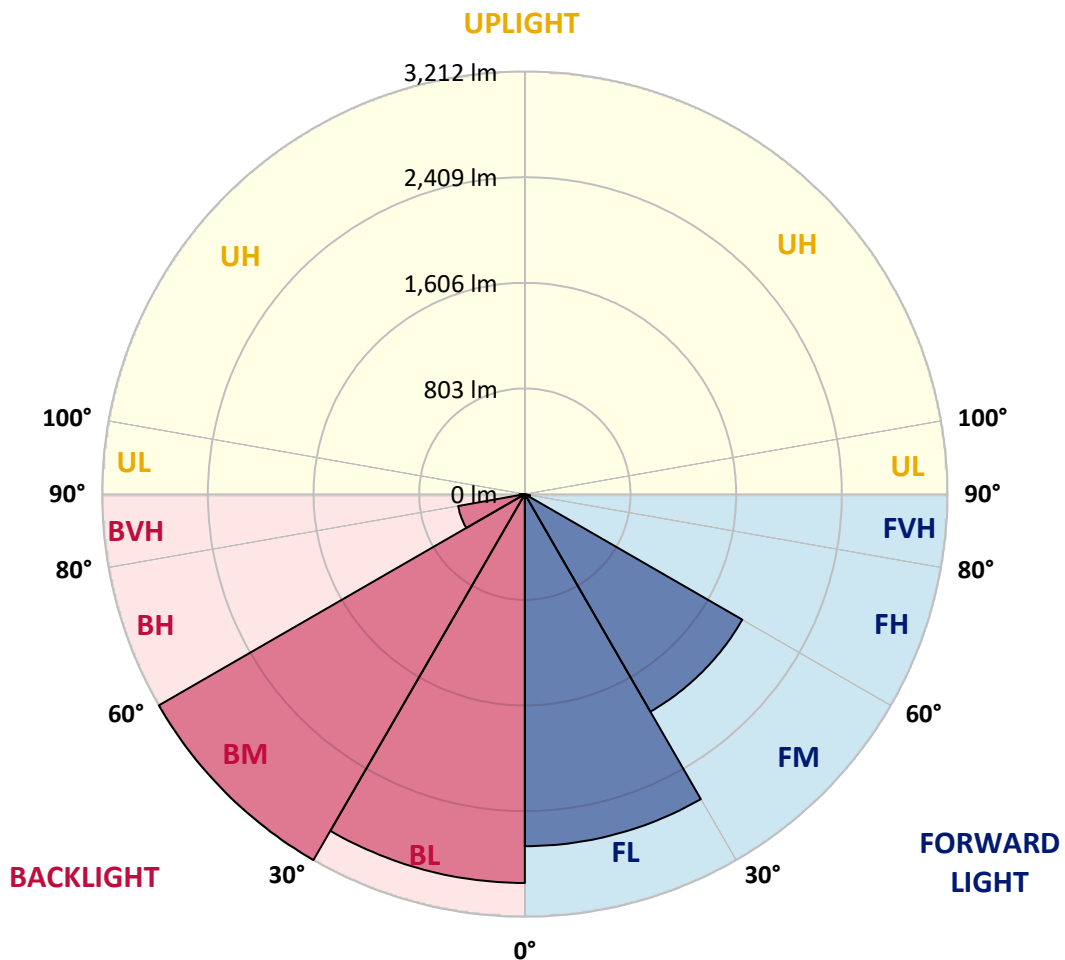
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2675.6	23.6			
FM (30°-60°)	1908.8	16.8			
FH (60°-80°)	40.0	0.4			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	2955.7	26.0	B4/5000		
BM (30°-60°)	3211.9	28.3	B3/5000		
BH (60°-80°)	514.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	40.0	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°	8637.2	8637.2	8637.2	8637.2	8637.2	8637.2	8637.2	8637.2	8637.2	8637.2
2.5°	8621.2	8632.4	8571.7	8578.0	8589.2	8670.7	8650.0	8630.8	8603.6	8650.0
5°	8610.0	8616.4	8552.5	8530.1	8539.7	8613.2	8546.1	8546.1	8539.7	8531.7
7.5°	8523.7	8526.9	8477.4	8437.4	8463.0	8496.5	8447.0	8471.0	8435.8	8463.0
10°	8394.2	8373.5	8314.3	8303.1	8331.9	8363.9	8330.3	8352.7	8320.7	8341.5
12.5°	8204.0	8172.1	8124.1	8109.7	8159.3	8202.4	8175.3	8162.5	8120.9	8172.1
15°	7470.4	7446.5	7555.1	7745.3	7916.4	7953.1	7924.3	7937.1	7850.8	7865.2
17.5°	6148.6	6103.9	6220.6	6671.3	7313.8	7652.6	7627.1	7544.0	7416.1	7444.9
20°	5587.6	5574.9	5562.1	5669.2	6118.3	7146.0	7181.1	6970.2	6788.0	6748.0
22.5°	5271.2	5266.4	5253.6	5277.6	5395.8	6055.9	6458.7	6263.7	6142.2	6131.1
25°	4981.9	4973.9	4935.5	4965.9	4965.9	5004.3	5520.5	5638.8	5531.7	5518.9
27.5°	4687.8	4673.4	4667.0	4681.4	4607.9	4349.0	4480.0	5057.0	5001.1	5004.3
30°	4369.7	4364.9	4347.4	4377.7	4150.8	3829.5	3746.4	4529.6	4540.8	4537.6
32.5°	3896.6	3917.4	3997.3	4030.9	3656.9	3391.6	3252.5	3919.0	4147.6	4142.8
35°	2830.6	2830.6	3091.1	3575.4	3204.6	3004.8	2929.7	3322.9	3759.2	3775.2
37.5°	2327.1	2335.1	2386.3	2606.8	2765.0	2694.7	2672.3	2797.0	3260.5	3286.1
40°	2093.8	2093.8	2093.8	2002.7	1997.9	2427.8	2415.0	2375.1	2816.2	2872.1
42.5°	1881.2	1886.0	1889.2	1659.0	1531.2	2098.6	2069.8	2009.1	2418.2	2483.7
45°	1662.2	1670.2	1679.8	1387.3	1331.4	1510.4	1751.7	1684.6	2025.0	2109.7
47.5°	1014.9	1027.7	1245.1	1176.3	1182.7	1165.2	1428.9	1417.7	1660.6	1780.5
50°	685.7	690.5	711.2	746.4	1014.9	915.8	1011.7	1173.1	1261.1	1443.3
52.5°	575.4	583.4	532.2	484.3	666.5	716.0	706.4	871.1	906.2	1131.6
55°	404.4	429.9	406.0	401.2	378.8	556.2	535.4	669.7	692.1	859.9
57.5°	41.6	47.9	83.1	298.9	247.7	314.9	382.0	490.7	513.1	634.5
60°	3.2	3.2	8.0	41.6	180.6	188.6	263.7	302.1	345.2	442.7
62.5°	0.0	1.6	3.2	6.4	28.8	100.7	132.7	158.2	207.8	286.1
65°	0.0	0.0	1.6	4.8	6.4	38.4	51.1	83.1	113.5	177.4
67.5°	0.0	0.0	1.6	3.2	4.8	9.6	17.6	30.4	60.7	100.7
70°	0.0	0.0	1.6	3.2	4.8	8.0	12.8	19.2	27.2	54.3
72.5°	0.0	0.0	1.6	1.6	3.2	8.0	9.6	12.8	19.2	27.2
75°	0.0	0.0	1.6	1.6	4.8	9.6	8.0	9.6	12.8	17.6
77.5°	0.0	0.0	1.6	3.2	4.8	9.6	8.0	9.6	9.6	11.2
80°	0.0	0.0	1.6	3.2	6.4	11.2	9.6	9.6	8.0	8.0
82.5°	0.0	0.0	1.6	4.8	6.4	14.4	14.4	12.8	6.4	4.8
85°	0.0	0.0	3.2	6.4	9.6	16.0	16.0	12.8	4.8	3.2
87.5°	0.0	0.0	3.2	4.8	8.0	11.2	16.0	12.8	4.8	1.6
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°
8637.2	0°	8637.2	8637.2	8637.2	8637.2	8637.2	8637.2	8637.2	8637.2	8637.2
8610.0	2.5°	8653.2	8643.6	8675.5	8688.3	8705.9	8638.8	8597.2	8598.8	8522.1
8512.5	5°	8563.7	8565.3	8606.8	8603.6	8621.2	8584.4	8568.5	8541.3	8474.2
8389.4	7.5°	8450.2	8435.8	8475.8	8506.1	8461.4	8486.9	8450.2	8463.0	8423.0
8280.8	10°	8362.3	8328.7	8365.5	8386.3	8387.8	8362.3	8327.1	8293.6	8279.2
8111.3	12.5°	8167.3	8124.1	8186.5	8215.2	8210.4	8160.9	8120.9	8128.9	8082.6
7814.1	15°	7898.8	7900.4	7945.1	7972.3	7946.7	7935.5	7938.7	7919.5	7879.6
7403.3	17.5°	7488.0	7512.0	7630.3	7695.8	7710.2	7687.8	7676.6	7654.2	7614.3
6748.0	20°	6803.9	6947.8	7158.8	7361.7	7401.7	7395.3	7355.4	7345.8	7323.4
6099.1	22.5°	6203.0	6310.1	6554.6	6871.1	7034.1	7050.1	7002.1	6987.7	6963.8
5518.9	25°	5581.2	5696.3	5916.9	6260.5	6597.8	6666.5	6658.5	6615.3	6589.8
5004.3	27.5°	5057.0	5172.1	5371.9	5681.9	6043.2	6263.7	6284.5	6215.8	6214.2
4545.5	30°	4583.9	4742.1	4894.0	5146.5	5496.5	5827.4	5862.5	5814.6	5819.4
4125.2	32.5°	4213.1	4344.2	4473.6	4643.0	4933.9	5319.1	5456.6	5411.8	5394.2
3775.2	35°	3834.3	3923.8	4056.5	4211.5	4409.7	4791.7	5029.8	4996.3	4978.7
3302.1	37.5°	3402.8	3556.2	3652.1	3826.3	3981.4	4285.0	4620.7	4615.9	4579.1
2899.3	40°	2960.0	3121.5	3266.9	3442.7	3562.6	3803.9	4176.3	4174.7	4179.5
2482.2	42.5°	2558.9	2707.5	2883.3	3075.1	3190.2	3366.0	3765.6	3788.0	3815.1
2138.5	45°	2196.1	2330.3	2493.3	2726.7	2865.7	2966.4	3321.3	3423.5	3421.9
1831.6	47.5°	1870.0	1996.3	2133.7	2360.7	2538.1	2629.2	2923.3	3068.7	3059.1
1502.4	50°	1569.5	1681.4	1825.3	1989.9	2228.0	2307.9	2526.9	2718.7	2704.3
1197.1	52.5°	1262.7	1417.7	1539.2	1689.4	1940.3	2018.6	2188.1	2375.1	2363.9
898.2	55°	984.5	1134.8	1281.8	1411.3	1622.3	1738.9	1860.4	2052.2	2049.0
703.2	57.5°	744.8	909.4	1048.5	1171.5	1339.4	1483.2	1580.7	1754.9	1777.3
481.1	60°	551.4	677.7	827.9	965.4	1098.0	1246.7	1312.2	1483.2	1492.8
329.2	62.5°	375.6	514.7	661.7	786.4	885.5	1038.9	1098.0	1238.7	1256.3
211.0	65°	260.5	350.0	517.8	607.4	728.8	859.9	919.0	1030.9	1066.1
121.5	67.5°	172.6	249.3	404.4	485.9	605.8	695.3	770.4	861.5	899.8
76.7	70°	94.3	183.8	289.3	383.6	487.5	573.8	647.3	720.8	754.4
35.2	72.5°	63.9	123.1	201.4	303.7	393.2	477.9	543.4	597.8	599.4
20.8	75°	32.0	83.1	153.4	234.9	306.9	390.0	449.1	481.1	442.7
12.8	77.5°	19.2	60.7	124.7	188.6	249.3	314.9	348.4	366.0	303.7
9.6	80°	11.2	43.2	97.5	150.2	172.6	231.8	263.7	268.5	203.0
6.4	82.5°	8.0	32.0	76.7	110.3	105.5	163.0	198.2	191.8	129.5
4.8	85°	4.8	22.4	47.9	68.7	63.9	107.1	115.1	118.3	75.1
3.2	87.5°	3.2	12.8	25.6	36.8	30.4	46.4	46.4	55.9	36.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8637.2
8423.0
8458.2
8355.9
8215.2
8042.6
7839.6
7596.7
7272.2
6957.4
6562.6
6211.0
5795.4
5395.8
4954.7
4609.5
4179.5
3800.7
3425.1
3062.3
2717.1
2387.9
2057.0
1767.7
1507.2
1259.5
1058.1
895.0
741.6
585.0
414.0
292.5
190.2
119.9
68.7
32.0
0.0

(END OF REPORT)