

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: P636745

Luminaire Tested: **IFLD-S-SA3D-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636745
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11473.5 lumens
Efficiency: N/A
Efficacy: 62.3 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

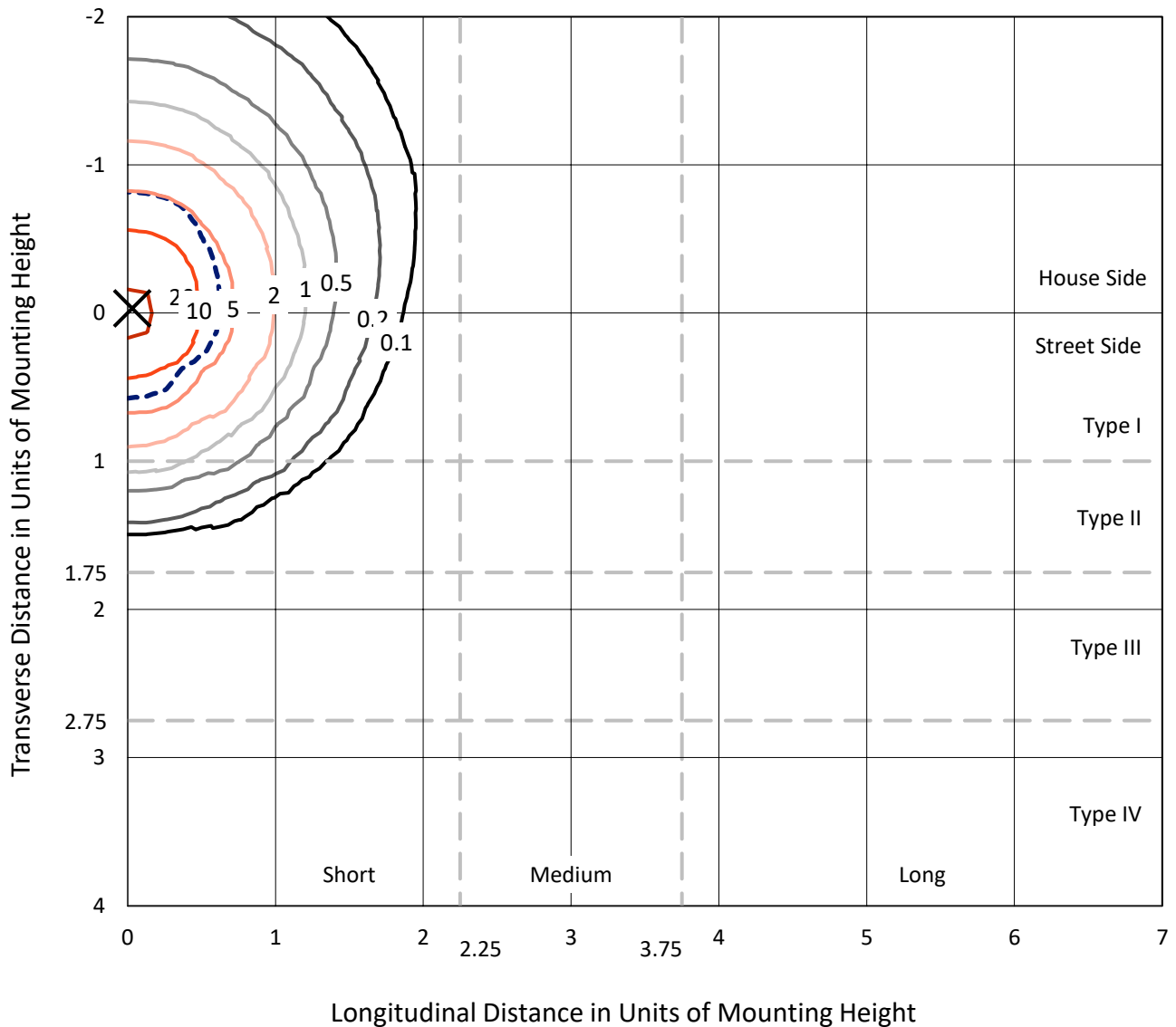
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

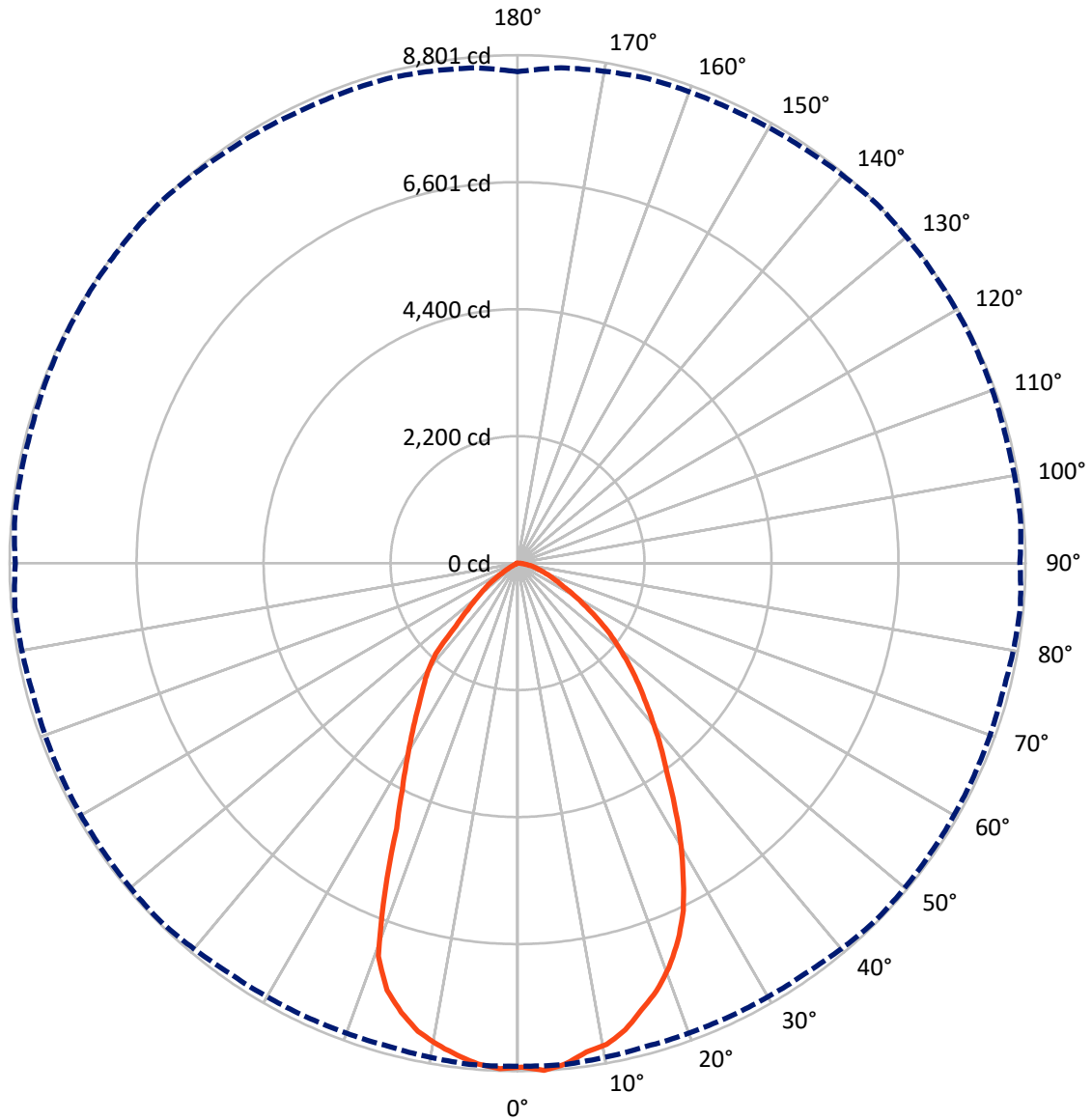
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 21.8 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	6795.2	0.0	6795.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	4678.3	0.0	4678.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	11473.5	0.0	11473.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	818.9	7.1
10°-20°	2195.8	19.1
20°-30°	2677.9	23.3
30°-40°	2444.9	21.3
40°-50°	1766.9	15.4
50°-60°	964.7	8.4
60°-70°	398.9	3.5
70°-80°	161.5	1.4
80°-90°	43.9	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°	11473.5	100.0
0°-180°	11473.5	100.0



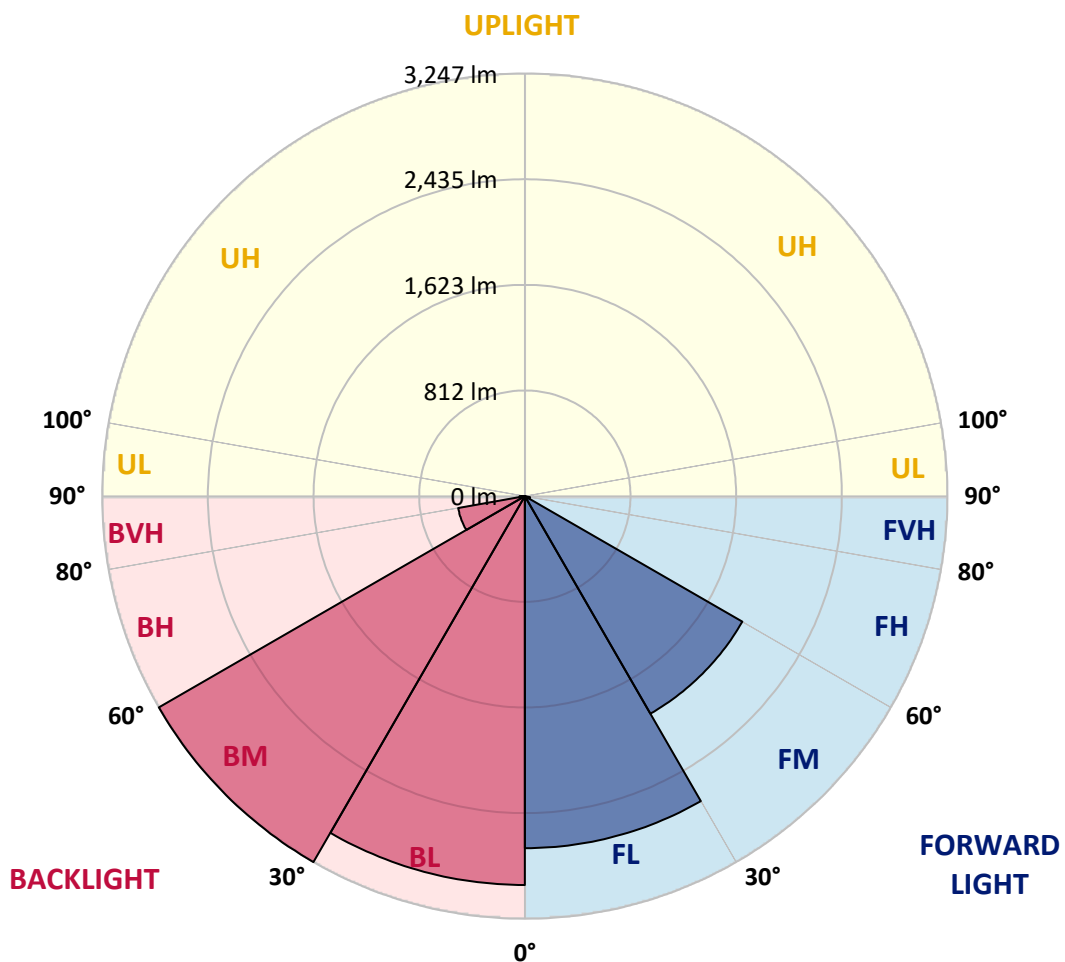
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2704.7	23.6			
FM (30°-60°)	1929.6	16.8			
FH (60°-80°)	40.4	0.4			G0/660
FVH (80°-90°)	3.5	0.0			G0/10
BL (0°-30°)	2987.9	26.0	B4/5000		
BM (30°-60°)	3246.9	28.3	B3/5000		
BH (60°-80°)	520.0	4.5	B2/1000		G2/1000
BVH (80°-90°)	40.4	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°	8731.3	8731.3	8731.3	8731.3	8731.3	8731.3	8731.3	8731.3	8731.3	8731.3
2.5°	8715.2	8726.5	8665.1	8671.5	8682.8	8765.2	8744.2	8724.9	8697.4	8744.2
5°	8703.9	8710.3	8645.7	8623.1	8632.8	8707.1	8639.2	8639.2	8632.8	8624.7
7.5°	8616.6	8619.8	8569.7	8529.4	8555.2	8589.1	8539.0	8563.3	8527.7	8555.2
10°	8485.7	8464.7	8404.9	8393.6	8422.7	8455.0	8421.1	8443.7	8411.4	8432.4
12.5°	8293.5	8261.1	8212.7	8198.1	8248.2	8291.8	8264.4	8251.5	8209.4	8261.1
15°	7551.8	7527.6	7637.5	7829.7	8002.6	8039.8	8010.7	8023.6	7936.4	7950.9
17.5°	6215.7	6170.4	6288.4	6744.0	7393.5	7736.0	7710.2	7626.2	7496.9	7526.0
20°	5648.5	5635.6	5622.7	5730.9	6185.0	7223.9	7259.4	7046.1	6861.9	6821.5
22.5°	5328.6	5323.8	5310.9	5335.1	5454.7	6121.9	6529.1	6332.0	6209.2	6197.9
25°	5036.2	5028.1	4989.3	5020.0	5020.0	5058.8	5580.7	5700.2	5592.0	5579.1
27.5°	4738.9	4724.3	4717.9	4732.4	4658.1	4396.4	4528.8	5112.1	5055.6	5058.8
30°	4417.4	4412.5	4394.7	4425.4	4196.0	3871.3	3787.2	4578.9	4590.2	4587.0
32.5°	3939.1	3960.1	4040.9	4074.8	3696.8	3428.5	3288.0	3961.7	4192.8	4187.9
35°	2861.4	2861.4	3124.8	3614.4	3239.5	3037.5	2961.6	3359.1	3800.2	3816.3
37.5°	2352.5	2360.6	2412.3	2635.2	2795.2	2724.1	2701.5	2827.5	3296.1	3321.9
40°	2116.6	2116.6	2116.6	2024.5	2019.6	2454.3	2441.3	2401.0	2846.9	2903.4
42.5°	1901.7	1906.5	1909.8	1677.1	1547.9	2121.4	2092.3	2031.0	2444.6	2510.8
45°	1680.3	1688.4	1698.1	1402.4	1345.9	1526.8	1770.8	1703.0	2047.1	2132.7
47.5°	1026.0	1038.9	1258.6	1189.2	1195.6	1177.9	1444.4	1433.1	1678.7	1799.9
50°	693.1	698.0	719.0	754.5	1026.0	925.8	1022.7	1185.9	1274.8	1459.0
52.5°	581.7	589.7	538.0	489.6	673.8	723.8	714.1	880.6	916.1	1143.9
55°	408.8	434.6	410.4	405.5	382.9	562.3	541.3	677.0	699.6	869.3
57.5°	42.0	48.5	84.0	302.1	250.4	318.3	386.2	496.0	518.6	641.4
60°	3.2	3.2	8.1	42.0	182.6	190.7	266.6	305.4	349.0	447.6
62.5°	0.0	1.6	3.2	6.5	29.1	101.8	134.1	160.0	210.0	289.2
65°	0.0	0.0	1.6	4.8	6.5	38.8	51.7	84.0	114.7	179.3
67.5°	0.0	0.0	1.6	3.2	4.8	9.7	17.8	30.7	61.4	101.8
70°	0.0	0.0	1.6	3.2	4.8	8.1	12.9	19.4	27.5	54.9
72.5°	0.0	0.0	1.6	1.6	3.2	8.1	9.7	12.9	19.4	27.5
75°	0.0	0.0	1.6	1.6	4.8	9.7	8.1	9.7	12.9	17.8
77.5°	0.0	0.0	1.6	3.2	4.8	9.7	8.1	9.7	9.7	11.3
80°	0.0	0.0	1.6	3.2	6.5	11.3	9.7	9.7	8.1	8.1
82.5°	0.0	0.0	1.6	4.8	6.5	14.5	14.5	12.9	6.5	4.8
85°	0.0	0.0	3.2	6.5	9.7	16.2	16.2	12.9	4.8	3.2
87.5°	0.0	0.0	3.2	4.8	8.1	11.3	16.2	12.9	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°
8731.3	0°	8731.3	8731.3	8731.3	8731.3	8731.3	8731.3	8731.3	8731.3	8731.3
8703.9	2.5°	8747.5	8737.8	8770.1	8783.0	8800.8	8732.9	8690.9	8692.5	8615.0
8605.3	5°	8657.0	8658.6	8700.6	8697.4	8715.2	8678.0	8661.8	8634.4	8566.5
8480.9	7.5°	8542.3	8527.7	8568.1	8598.8	8553.6	8579.4	8542.3	8555.2	8514.8
8371.0	10°	8453.4	8419.5	8456.6	8477.7	8479.3	8453.4	8417.9	8383.9	8369.4
8199.7	12.5°	8256.3	8212.7	8275.7	8304.8	8299.9	8249.8	8209.4	8217.5	8170.7
7899.2	15°	7984.9	7986.5	8031.7	8059.2	8033.3	8022.0	8025.3	8005.9	7965.5
7484.0	17.5°	7569.6	7593.9	7713.4	7779.7	7794.2	7771.6	7760.3	7737.7	7697.3
6821.5	20°	6878.1	7023.5	7236.8	7442.0	7482.4	7475.9	7435.5	7425.8	7403.2
6165.6	22.5°	6270.6	6378.8	6626.0	6946.0	7110.8	7126.9	7078.4	7063.9	7039.7
5579.1	25°	5642.1	5758.4	5981.4	6328.8	6669.7	6739.1	6731.1	6687.4	6661.6
5058.8	27.5°	5112.1	5228.5	5430.4	5743.9	6109.0	6332.0	6353.0	6283.5	6281.9
4595.1	30°	4633.9	4793.8	4947.3	5202.6	5556.4	5890.9	5926.4	5878.0	5882.8
4170.2	32.5°	4259.0	4391.5	4522.4	4693.6	4987.7	5377.1	5516.0	5470.8	5453.0
3816.3	35°	3876.1	3966.6	4100.7	4257.4	4457.8	4843.9	5084.7	5050.7	5032.9
3338.1	37.5°	3439.9	3595.0	3691.9	3868.0	4024.7	4331.7	4671.0	4666.2	4629.0
2930.9	40°	2992.3	3155.5	3302.5	3480.2	3601.4	3845.4	4221.9	4220.2	4225.1
2509.2	42.5°	2586.8	2737.0	2914.7	3108.6	3225.0	3402.7	3806.6	3829.2	3856.7
2161.8	45°	2220.0	2355.7	2520.5	2756.4	2897.0	2998.8	3357.5	3460.9	3459.2
1851.6	47.5°	1890.4	2018.0	2157.0	2386.4	2565.8	2657.8	2955.1	3102.2	3092.5
1518.8	50°	1586.6	1699.7	1845.1	2011.6	2252.3	2333.1	2554.4	2748.3	2733.8
1210.2	52.5°	1276.4	1433.1	1555.9	1707.8	1961.5	2040.6	2211.9	2401.0	2389.6
908.0	55°	995.3	1147.2	1295.8	1426.7	1639.9	1757.9	1880.7	2074.6	2071.3
710.9	57.5°	752.9	919.3	1059.9	1184.3	1354.0	1499.4	1597.9	1774.1	1796.7
486.3	60°	557.4	685.1	836.9	975.9	1110.0	1260.3	1326.5	1499.4	1509.1
332.8	62.5°	379.7	520.3	668.9	794.9	895.1	1050.2	1110.0	1252.2	1270.0
213.3	65°	263.4	353.8	523.5	614.0	736.8	869.3	929.0	1042.1	1077.7
122.8	67.5°	174.5	252.1	408.8	491.2	612.4	702.8	778.8	870.9	909.6
77.6	70°	95.3	185.8	292.4	387.8	492.8	580.0	654.4	728.7	762.6
35.5	72.5°	64.6	124.4	203.6	307.0	397.5	483.1	549.3	604.3	605.9
21.0	75°	32.3	84.0	155.1	237.5	310.2	394.2	454.0	486.3	447.6
12.9	77.5°	19.4	61.4	126.0	190.7	252.1	318.3	352.2	370.0	307.0
9.7	80°	11.3	43.6	98.6	151.9	174.5	234.3	266.6	271.4	205.2
6.5	82.5°	8.1	32.3	77.6	111.5	106.6	164.8	200.3	193.9	130.9
4.8	85°	4.8	22.6	48.5	69.5	64.6	108.3	116.3	119.6	75.9
3.2	87.5°	3.2	12.9	25.9	37.2	30.7	46.9	46.9	56.5	37.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8731.3
8514.8
8550.4
8447.0
8304.8
8130.3
7925.1
7679.5
7351.5
7033.2
6634.1
6278.7
5858.6
5454.7
5008.7
4659.7
4225.1
3842.2
3462.5
3095.7
2746.7
2413.9
2079.4
1787.0
1523.6
1273.2
1069.6
904.8
749.7
591.4
418.5
295.7
192.3
121.2
69.5
32.3
0.0

(END OF REPORT)