

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: P638072

Luminaire Tested: **IFLD-S-SA2B-727-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638072
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7344.7 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: B3 - U0 - G1

Input Watts (W): 82.4
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

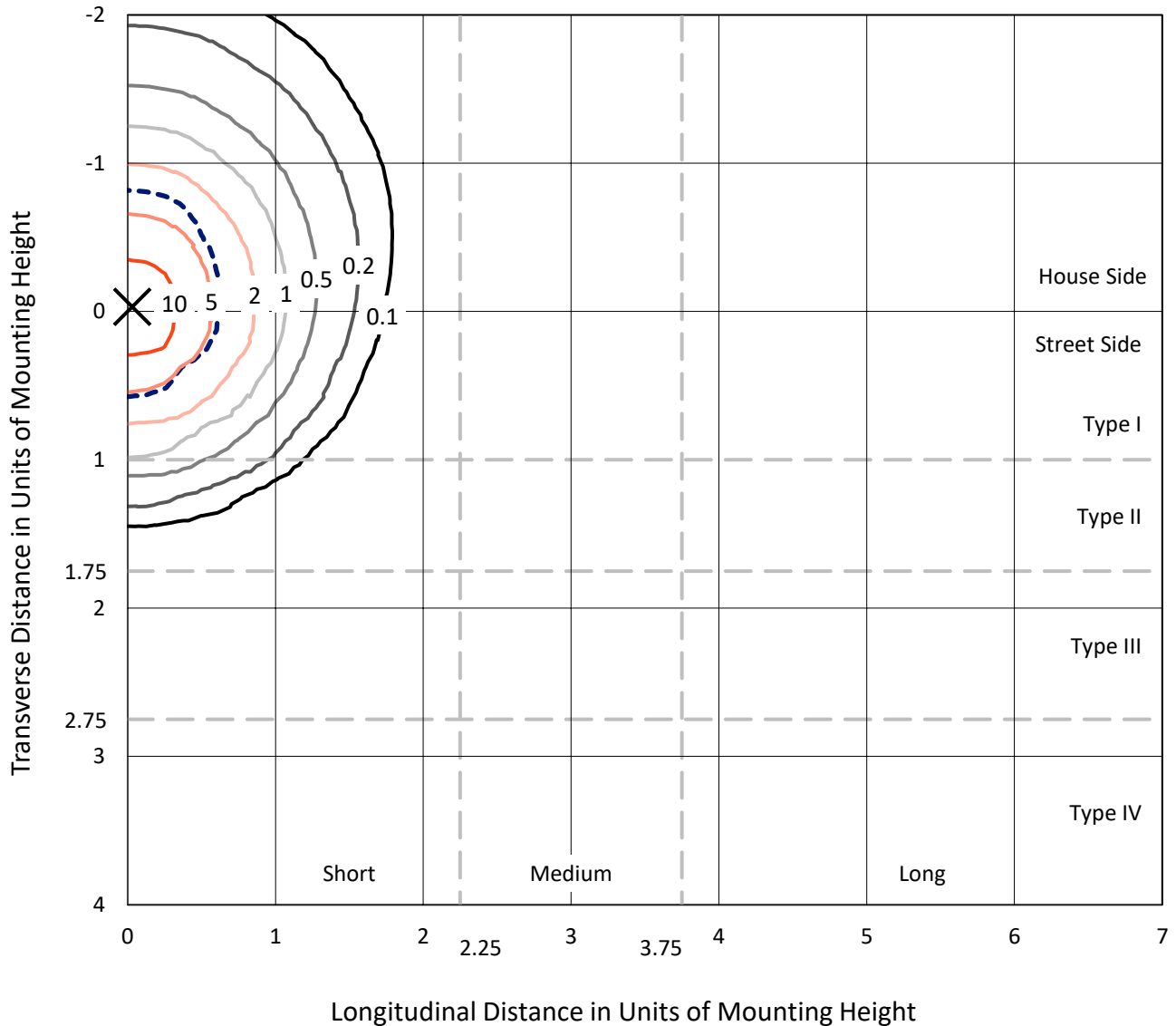




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Iso-Footcandle Lines of Horizontal Illumination

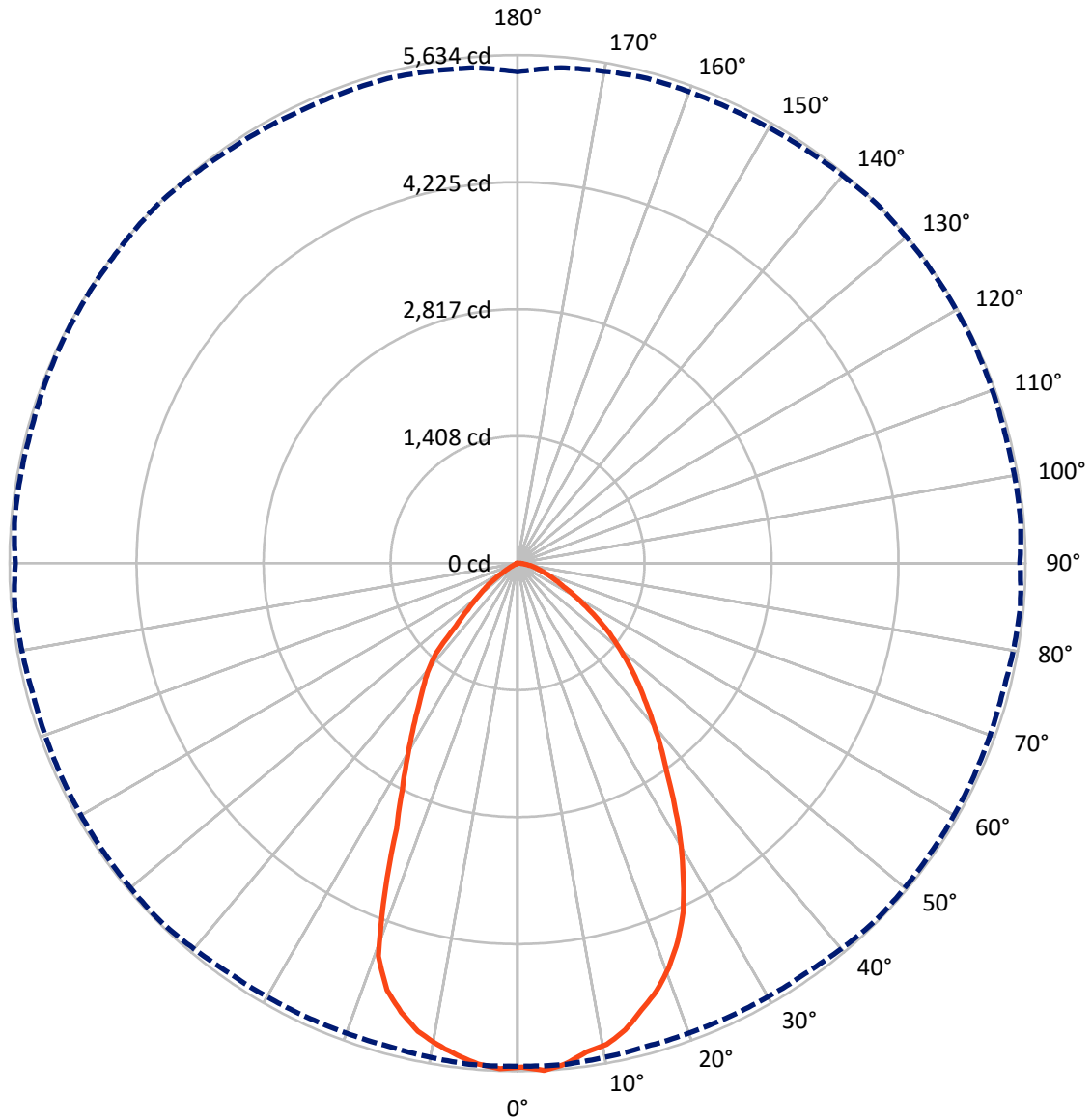
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 14 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	4349.9	0.0	4349.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2994.8	0.0	2994.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	7344.7	0.0	7344.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	524.2	7.1
10°-20°	1405.6	19.1
20°-30°	1714.3	23.3
30°-40°	1565.1	21.3
40°-50°	1131.1	15.4
50°-60°	617.6	8.4
60°-70°	255.3	3.5
70°-80°	103.4	1.4
80°-90°	28.1	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°	7344.7	100.0
0°-180°	7344.7	100.0



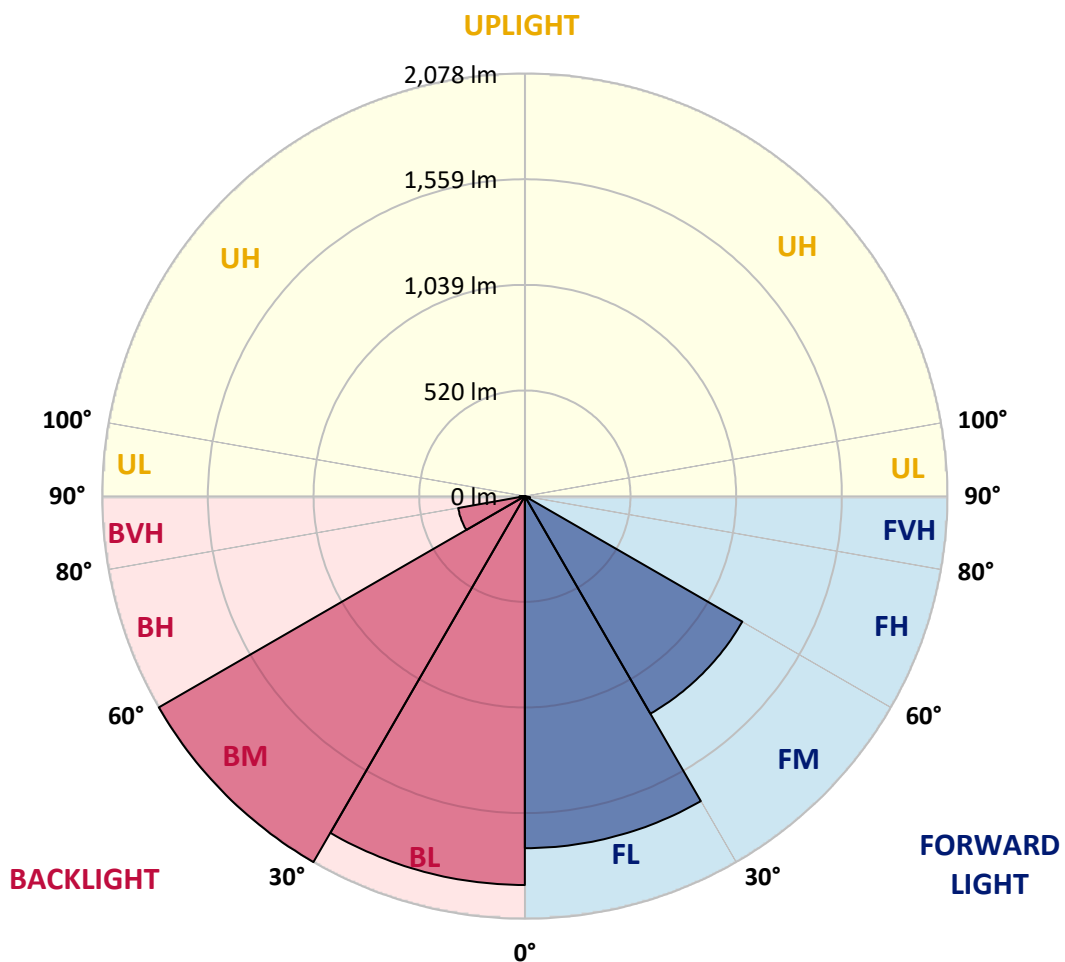
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1731.4	23.6			
FM (30°-60°)	1235.2	16.8			
FH (60°-80°)	25.9	0.4			G0/660
FVH (80°-90°)	2.3	0.0			G0/10
BL (0°-30°)	1912.7	26.0	B3/2500		
BM (30°-60°)	2078.5	28.3	B2/2500		
BH (60°-80°)	332.9	4.5	B1/500		G1/500
BVH (80°-90°)	25.9	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5589.3	5589.3	5589.3	5589.3	5589.3	5589.3	5589.3	5589.3	5589.3	5589.3
2.5°	5578.9	5586.2	5546.9	5551.0	5558.3	5611.0	5597.6	5585.2	5567.6	5597.6
5°	5571.7	5575.8	5534.5	5520.0	5526.2	5573.8	5530.3	5530.3	5526.2	5521.0
7.5°	5515.9	5517.9	5485.9	5460.0	5476.6	5498.3	5466.2	5481.7	5459.0	5476.6
10°	5432.1	5418.6	5380.4	5373.1	5391.7	5412.4	5390.7	5405.2	5384.5	5397.9
12.5°	5309.0	5288.3	5257.3	5248.0	5280.0	5308.0	5290.4	5282.1	5255.2	5288.3
15°	4834.3	4818.7	4889.1	5012.2	5122.8	5146.6	5128.0	5136.3	5080.4	5089.7
17.5°	3978.9	3949.9	4025.4	4317.1	4732.9	4952.2	4935.6	4881.8	4799.1	4817.7
20°	3615.9	3607.6	3599.3	3668.6	3959.3	4624.3	4647.1	4510.5	4392.6	4366.8
22.5°	3411.1	3408.0	3399.7	3415.2	3491.8	3918.9	4179.6	4053.4	3974.8	3967.5
25°	3223.9	3218.7	3193.9	3213.5	3213.5	3238.4	3572.4	3649.0	3579.7	3571.4
27.5°	3033.6	3024.3	3020.1	3029.4	2981.9	2814.3	2899.1	3272.5	3236.3	3238.4
30°	2827.7	2824.6	2813.3	2832.9	2686.0	2478.2	2424.4	2931.2	2938.4	2936.3
32.5°	2521.6	2535.0	2586.8	2608.5	2366.5	2194.8	2104.8	2536.1	2684.0	2680.9
35°	1831.7	1831.7	2000.3	2313.7	2073.7	1944.5	1895.8	2150.3	2432.6	2443.0
37.5°	1505.9	1511.1	1544.2	1686.9	1789.3	1743.8	1729.3	1810.0	2109.9	2126.5
40°	1354.9	1354.9	1354.9	1296.0	1292.9	1571.1	1562.8	1537.0	1822.4	1858.6
42.5°	1217.4	1220.5	1222.5	1073.6	990.8	1358.0	1339.4	1300.1	1564.9	1607.3
45°	1075.7	1080.8	1087.0	897.8	861.6	977.4	1133.6	1090.1	1310.4	1365.3
47.5°	656.8	665.0	805.7	761.2	765.4	754.0	924.7	917.4	1074.6	1152.2
50°	443.7	446.8	460.3	483.0	656.8	592.6	654.7	759.2	816.1	934.0
52.5°	372.3	377.5	344.4	313.4	431.3	463.4	457.2	563.7	586.4	732.3
55°	261.7	278.2	262.7	259.6	245.1	359.9	346.5	433.4	447.8	556.4
57.5°	26.9	31.0	53.8	193.4	160.3	203.8	247.2	317.5	332.0	410.6
60°	2.1	2.1	5.2	26.9	116.9	122.0	170.7	195.5	223.4	286.5
62.5°	0.0	1.0	2.1	4.1	18.6	65.2	85.8	102.4	134.5	185.1
65°	0.0	0.0	1.0	3.1	4.1	24.8	33.1	53.8	73.4	114.8
67.5°	0.0	0.0	1.0	2.1	3.1	6.2	11.4	19.7	39.3	65.2
70°	0.0	0.0	1.0	2.1	3.1	5.2	8.3	12.4	17.6	35.2
72.5°	0.0	0.0	1.0	1.0	2.1	5.2	6.2	8.3	12.4	17.6
75°	0.0	0.0	1.0	1.0	3.1	6.2	5.2	6.2	8.3	11.4
77.5°	0.0	0.0	1.0	2.1	3.1	6.2	5.2	6.2	6.2	7.2
80°	0.0	0.0	1.0	2.1	4.1	7.2	6.2	6.2	5.2	5.2
82.5°	0.0	0.0	1.0	3.1	4.1	9.3	9.3	8.3	4.1	3.1
85°	0.0	0.0	2.1	4.1	6.2	10.3	10.3	8.3	3.1	2.1
87.5°	0.0	0.0	2.1	3.1	5.2	7.2	10.3	8.3	3.1	1.0
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°
5589.3	0°	5589.3	5589.3	5589.3	5589.3	5589.3	5589.3	5589.3	5589.3	5589.3
5571.7	2.5°	5599.6	5593.4	5614.1	5622.4	5633.8	5590.3	5563.4	5564.5	5514.8
5508.6	5°	5541.7	5542.7	5569.6	5567.6	5578.9	5555.2	5544.8	5527.2	5483.8
5429.0	7.5°	5468.3	5459.0	5484.8	5504.5	5475.5	5492.1	5468.3	5476.6	5450.7
5358.6	10°	5411.4	5389.7	5413.5	5426.9	5427.9	5411.4	5388.6	5366.9	5357.6
5249.0	12.5°	5285.2	5257.3	5297.6	5316.2	5313.1	5281.1	5255.2	5260.4	5230.4
5056.6	15°	5111.4	5112.5	5141.4	5159.0	5142.5	5135.2	5137.3	5124.9	5099.0
4790.8	17.5°	4845.6	4861.2	4937.7	4980.1	4989.4	4974.9	4967.7	4953.2	4927.3
4366.8	20°	4403.0	4496.0	4632.6	4763.9	4789.8	4785.6	4759.8	4753.6	4739.1
3946.8	22.5°	4014.1	4083.4	4241.6	4446.4	4551.9	4562.2	4531.2	4521.9	4506.4
3571.4	25°	3611.7	3686.2	3828.9	4051.3	4269.5	4314.0	4308.8	4280.9	4264.4
3238.4	27.5°	3272.5	3347.0	3476.2	3676.9	3910.6	4053.4	4066.8	4022.3	4021.3
2941.5	30°	2966.3	3068.7	3167.0	3330.4	3556.9	3771.0	3793.8	3762.7	3765.8
2669.5	32.5°	2726.4	2811.2	2895.0	3004.6	3192.8	3442.1	3531.1	3502.1	3490.7
2443.0	35°	2481.3	2539.2	2625.0	2725.3	2853.6	3100.8	3254.9	3233.2	3221.8
2136.8	37.5°	2202.0	2301.3	2363.3	2476.1	2576.4	2772.9	2990.1	2987.0	2963.2
1876.2	40°	1915.5	2020.0	2114.1	2227.9	2305.4	2461.6	2702.6	2701.6	2704.7
1606.2	42.5°	1655.9	1752.1	1865.9	1990.0	2064.4	2178.2	2436.8	2451.3	2468.8
1383.9	45°	1421.1	1508.0	1613.5	1764.5	1854.5	1919.6	2149.2	2215.4	2214.4
1185.3	47.5°	1210.1	1291.8	1380.8	1527.6	1642.4	1701.4	1891.7	1985.8	1979.6
972.2	50°	1015.7	1088.1	1181.2	1287.7	1441.8	1493.5	1635.2	1759.3	1750.0
774.7	52.5°	817.1	917.4	996.0	1093.2	1255.6	1306.3	1415.9	1537.0	1529.7
581.3	55°	637.1	734.3	829.5	913.3	1049.8	1125.3	1203.9	1328.0	1326.0
455.1	57.5°	482.0	588.5	678.5	758.1	866.7	959.8	1022.9	1135.6	1150.1
311.3	60°	356.8	438.5	535.8	624.7	710.6	806.7	849.2	959.8	966.0
213.1	62.5°	243.1	333.0	428.2	508.9	573.0	672.3	710.6	801.6	813.0
136.5	65°	168.6	226.5	335.1	393.0	471.6	556.4	594.7	667.1	689.9
78.6	67.5°	111.7	161.3	261.7	314.4	392.0	449.9	498.5	557.5	582.3
49.6	70°	61.0	118.9	187.2	248.2	315.5	371.3	418.9	466.5	488.2
22.8	72.5°	41.4	79.6	130.3	196.5	254.4	309.3	351.7	386.8	387.9
13.4	75°	20.7	53.8	99.3	152.0	198.6	252.4	290.6	311.3	286.5
8.3	77.5°	12.4	39.3	80.7	122.0	161.3	203.8	225.5	236.9	196.5
6.2	80°	7.2	27.9	63.1	97.2	111.7	150.0	170.7	173.8	131.4
4.1	82.5°	5.2	20.7	49.6	71.4	68.3	105.5	128.3	124.1	83.8
3.1	85°	3.1	14.5	31.0	44.5	41.4	69.3	74.5	76.5	48.6
2.1	87.5°	2.1	8.3	16.5	23.8	19.7	30.0	30.0	36.2	23.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5589.3
5450.7
5473.5
5407.3
5316.2
5204.5
5073.2
4916.0
4706.0
4502.3
4246.8
4019.2
3750.3
3491.8
3206.3
2982.9
2704.7
2459.5
2216.5
1981.7
1758.3
1545.2
1331.1
1143.9
975.3
815.0
684.7
579.2
479.9
378.5
267.9
189.3
123.1
77.6
44.5
20.7
0.0

(END OF REPORT)