

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: P638165

Luminaire Tested: **IFLD-S-SA3C-740-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638165
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-740-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (48) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16292.9 lumens
Efficiency: N/A
Efficacy: 101.3 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

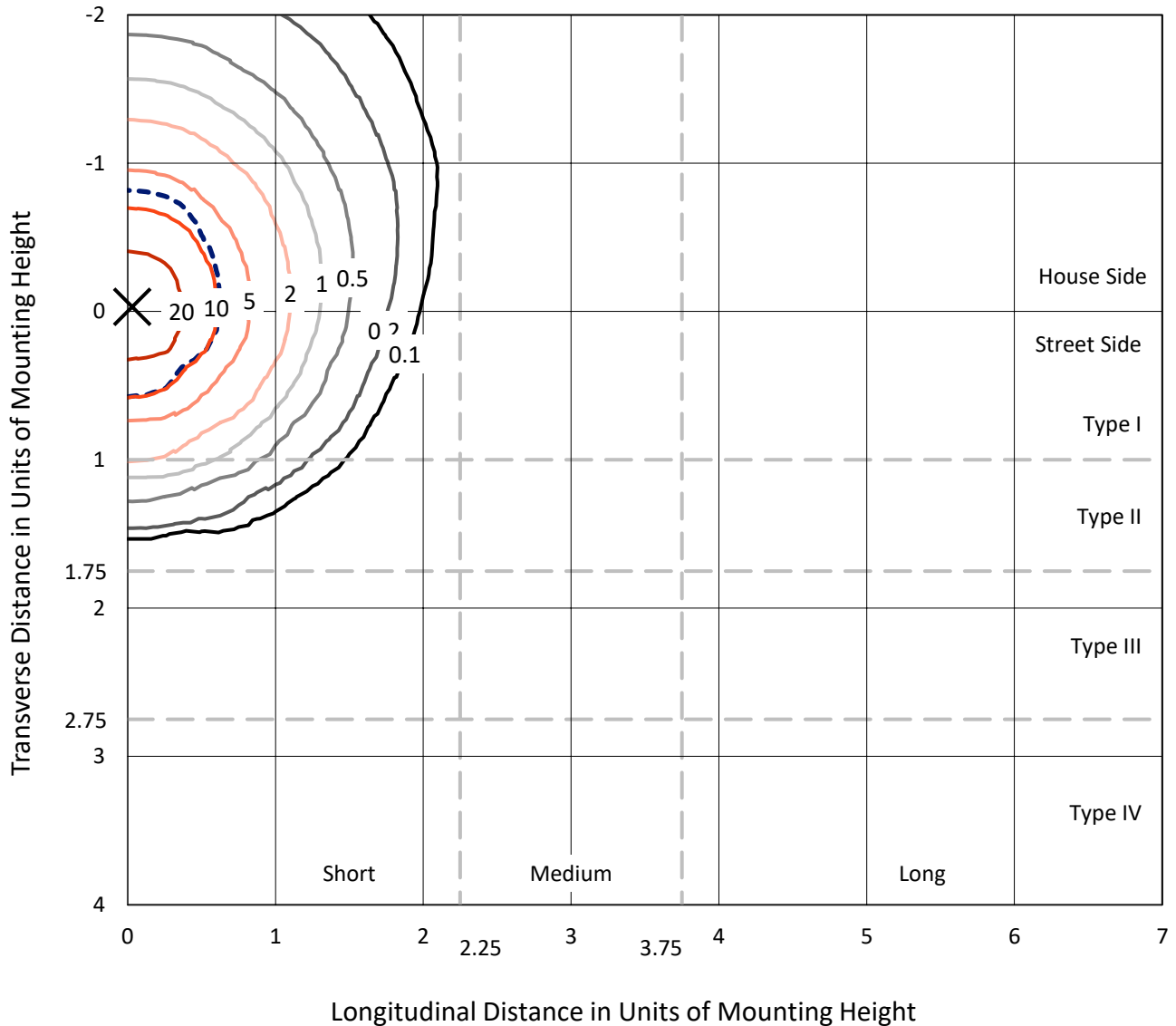
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

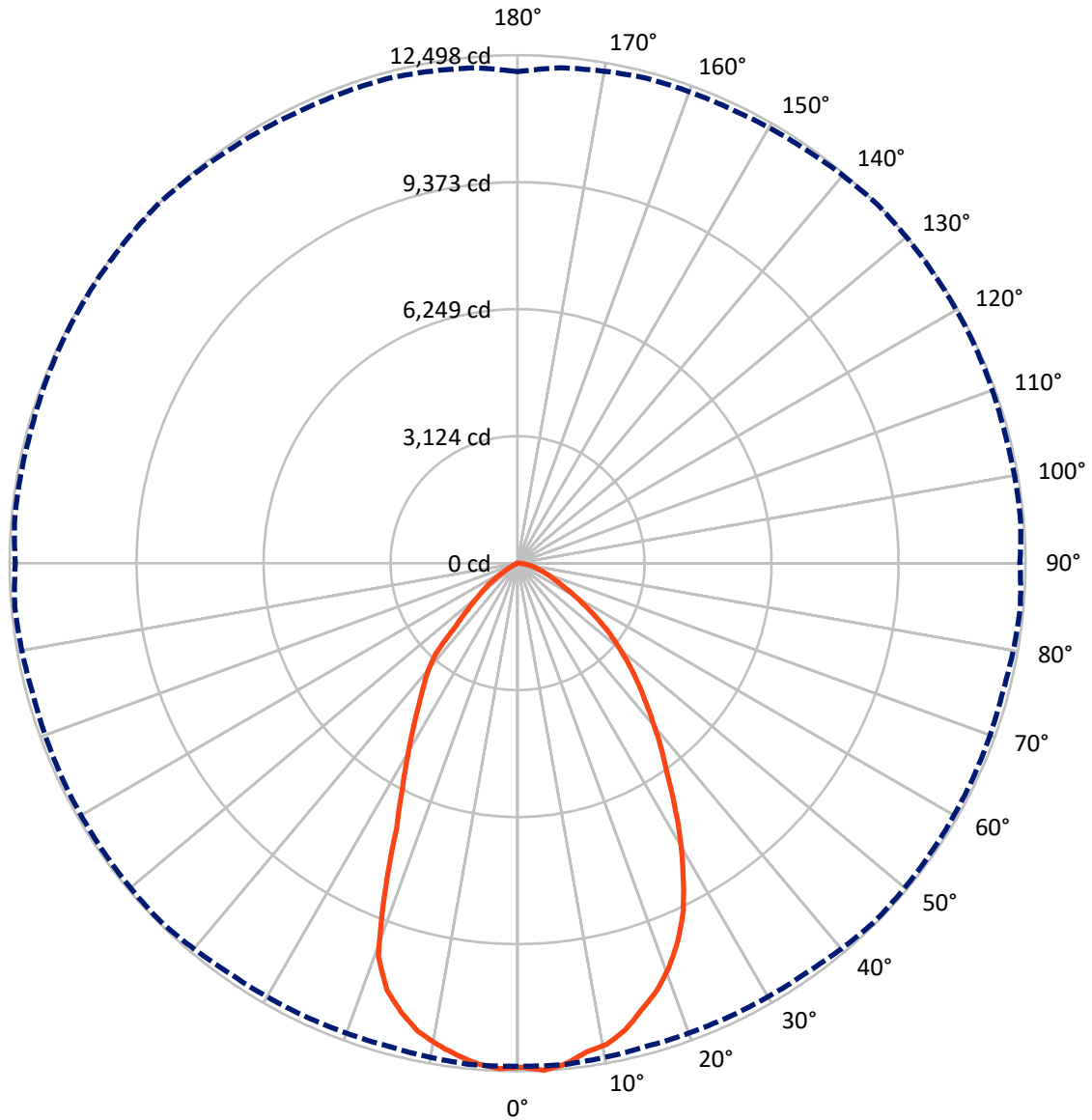
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 31 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	9649.5	0.0	9649.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	6643.4	0.0	6643.4
	% Fixture	40.8	0.0	40.8
Total	Lumens	16292.9	0.0	16292.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1162.8	7.1
10°-20°	3118.2	19.1
20°-30°	3802.8	23.3
30°-40°	3471.9	21.3
40°-50°	2509.0	15.4
50°-60°	1370.0	8.4
60°-70°	566.4	3.5
70°-80°	229.4	1.4
80°-90°	62.4	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°	16292.9	100.0
0°-180°	16292.9	100.0



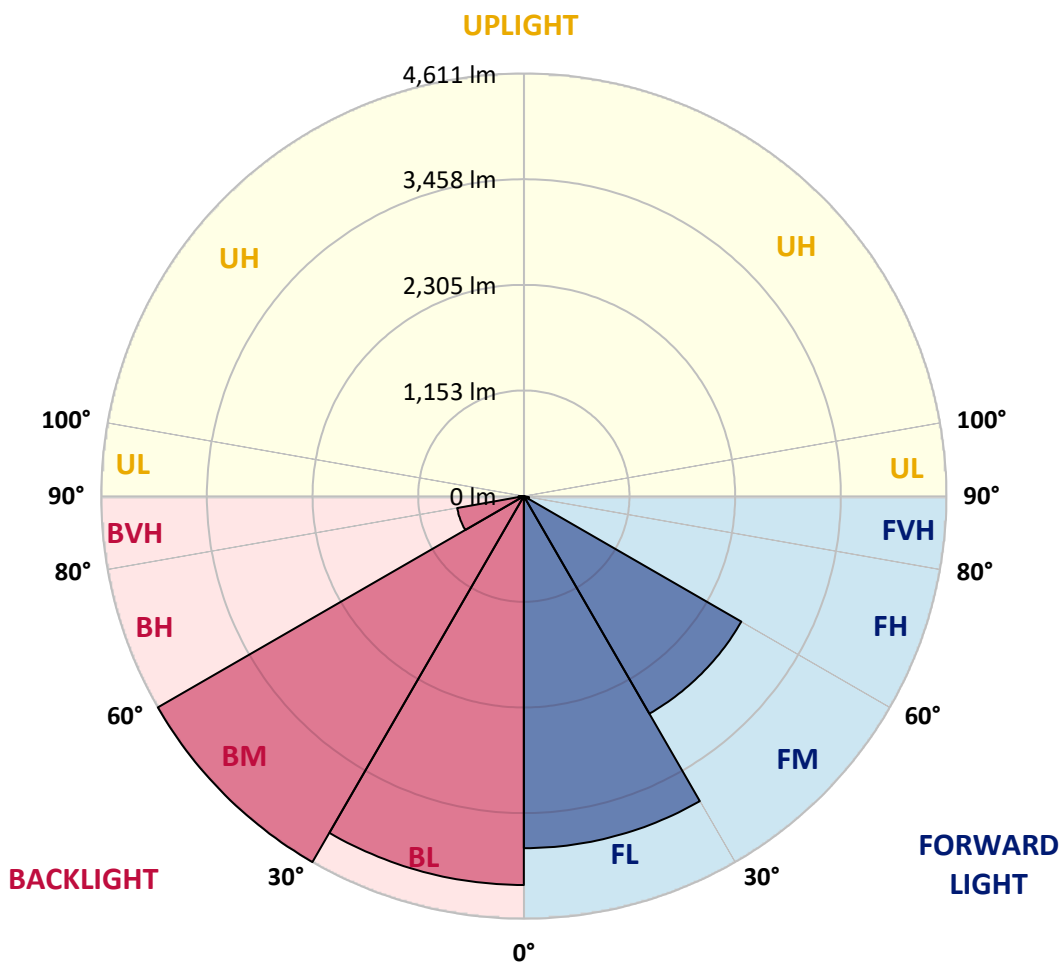
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3840.8	23.6			
FM (30°-60°)	2740.2	16.8			
FH (60°-80°)	57.4	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	4242.9	26.0	B4/5000		
BM (30°-60°)	4610.7	28.3	B3/5000		
BH (60°-80°)	738.4	4.5	B2/1000		G2/1000
BVH (80°-90°)	57.4	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°	12398.8	12398.8	12398.8	12398.8	12398.8	12398.8	12398.8	12398.8	12398.8	12398.8
2.5°	12375.9	12391.9	12304.7	12313.9	12330.0	12447.0	12417.2	12389.6	12350.6	12417.2
5°	12359.8	12369.0	12277.2	12245.1	12258.8	12364.4	12268.0	12268.0	12258.8	12247.4
7.5°	12235.9	12240.5	12169.4	12112.0	12148.7	12196.9	12125.8	12160.2	12109.7	12148.7
10°	12050.1	12020.2	11935.3	11919.3	11960.6	12006.5	11958.3	11990.4	11944.5	11974.3
12.5°	11777.0	11731.1	11662.3	11641.7	11712.8	11774.7	11735.7	11717.4	11657.7	11731.1
15°	10723.9	10689.5	10845.5	11118.5	11364.0	11416.8	11375.5	11393.9	11270.0	11290.6
17.5°	8826.5	8762.2	8929.7	9576.7	10499.1	10985.5	10948.8	10829.5	10645.9	10687.2
20°	8021.1	8002.8	7984.4	8138.1	8782.9	10258.2	10308.6	10005.8	9744.2	9686.9
22.5°	7566.9	7560.0	7541.6	7576.0	7745.8	8693.4	9271.6	8991.7	8817.3	8801.2
25°	7151.6	7140.1	7085.0	7128.6	7128.6	7183.7	7924.8	8094.6	7940.8	7922.5
27.5°	6729.4	6708.8	6699.6	6720.2	6614.7	6243.0	6431.1	7259.4	7179.1	7183.7
30°	6272.8	6265.9	6240.7	6284.3	5958.5	5497.3	5378.0	6502.3	6518.3	6513.7
32.5°	5593.7	5623.5	5738.2	5786.4	5249.5	4868.7	4669.1	5625.8	5953.9	5947.0
35°	4063.3	4063.3	4437.3	5132.5	4600.2	4313.4	4205.6	4770.0	5396.4	5419.3
37.5°	3340.6	3352.1	3425.5	3742.1	3969.3	3868.3	3836.2	4015.2	4680.5	4717.2
40°	3005.6	3005.6	3005.6	2874.9	2868.0	3485.2	3466.8	3409.4	4042.7	4123.0
42.5°	2700.5	2707.4	2712.0	2381.6	2198.0	3012.5	2971.2	2884.0	3471.4	3565.5
45°	2386.2	2397.6	2411.4	1991.5	1911.2	2168.2	2514.6	2418.3	2907.0	3028.6
47.5°	1456.9	1475.3	1787.3	1688.7	1697.8	1672.6	2051.2	2035.1	2383.9	2555.9
50°	984.3	991.2	1021.0	1071.5	1456.9	1314.7	1452.3	1684.1	1810.3	2071.8
52.5°	826.0	837.4	764.0	695.2	956.8	1027.9	1014.1	1250.4	1300.9	1624.4
55°	580.5	617.2	582.8	575.9	543.8	798.4	768.6	961.3	993.5	1234.4
57.5°	59.7	68.8	119.3	429.0	355.6	452.0	548.4	704.4	736.5	910.9
60°	4.6	4.6	11.5	59.7	259.3	270.7	378.6	433.6	495.6	635.5
62.5°	0.0	2.3	4.6	9.2	41.3	144.5	190.4	227.1	298.3	410.7
65°	0.0	0.0	2.3	6.9	9.2	55.1	73.4	119.3	162.9	254.7
67.5°	0.0	0.0	2.3	4.6	6.9	13.8	25.2	43.6	87.2	144.5
70°	0.0	0.0	2.3	4.6	6.9	11.5	18.4	27.5	39.0	78.0
72.5°	0.0	0.0	2.3	2.3	4.6	11.5	13.8	18.4	27.5	39.0
75°	0.0	0.0	2.3	2.3	6.9	13.8	11.5	13.8	18.4	25.2
77.5°	0.0	0.0	2.3	4.6	6.9	13.8	11.5	13.8	13.8	16.1
80°	0.0	0.0	2.3	4.6	9.2	16.1	13.8	13.8	11.5	11.5
82.5°	0.0	0.0	2.3	6.9	9.2	20.6	20.6	18.4	9.2	6.9
85°	0.0	0.0	4.6	9.2	13.8	22.9	22.9	18.4	6.9	4.6
87.5°	0.0	0.0	4.6	6.9	11.5	16.1	22.9	18.4	6.9	2.3
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°
12398.8	0°	12398.8	12398.8	12398.8	12398.8	12398.8	12398.8	12398.8	12398.8	12398.8
12359.8	2.5°	12421.7	12408.0	12453.9	12472.2	12497.5	12401.1	12341.4	12343.7	12233.6
12219.8	5°	12293.3	12295.6	12355.2	12350.6	12375.9	12323.1	12300.1	12261.1	12164.8
12043.2	7.5°	12130.4	12109.7	12167.1	12210.7	12146.4	12183.1	12130.4	12148.7	12091.4
11887.2	10°	12004.2	11956.0	12008.8	12038.6	12040.9	12004.2	11953.7	11905.5	11884.9
11644.0	12.5°	11724.3	11662.3	11751.8	11793.1	11786.2	11715.1	11657.7	11669.2	11602.7
11217.2	15°	11338.8	11341.1	11405.3	11444.3	11407.6	11391.6	11396.2	11368.6	11311.3
10627.5	17.5°	10749.1	10783.6	10953.3	11047.4	11068.1	11035.9	11019.9	10987.8	10930.4
9686.9	20°	9767.2	9973.7	10276.5	10567.9	10625.3	10616.1	10558.7	10544.9	10512.8
8755.3	22.5°	8904.5	9058.2	9409.2	9863.5	10097.5	10120.5	10051.7	10031.0	9996.6
7922.5	25°	8012.0	8177.2	8493.8	8987.1	9471.2	9569.8	9558.4	9496.4	9459.7
7183.7	27.5°	7259.4	7424.6	7711.4	8156.5	8675.0	8991.7	9021.5	8922.8	8920.5
6525.2	30°	6580.3	6807.4	7025.4	7387.9	7890.4	8365.3	8415.8	8346.9	8353.8
5921.8	32.5°	6048.0	6236.1	6422.0	6665.2	7082.7	7635.7	7833.0	7768.8	7743.5
5419.3	35°	5504.2	5632.7	5823.1	6045.7	6330.2	6878.5	7220.4	7172.2	7147.0
4740.2	37.5°	4884.7	5105.0	5242.6	5492.7	5715.3	6151.2	6633.0	6626.2	6573.4
4162.0	40°	4249.2	4480.9	4689.7	4942.1	5114.2	5460.6	5995.2	5992.9	5999.8
3563.2	42.5°	3673.3	3886.7	4139.1	4414.4	4579.6	4832.0	5405.5	5437.7	5476.7
3069.9	45°	3152.5	3345.2	3579.2	3914.2	4113.8	4258.4	4767.7	4914.6	4912.3
2629.4	47.5°	2684.4	2865.7	3063.0	3388.8	3643.5	3774.2	4196.4	4405.2	4391.4
2156.7	50°	2253.1	2413.7	2620.2	2856.5	3198.4	3313.1	3627.4	3902.7	3882.1
1718.5	52.5°	1812.6	2035.1	2209.5	2425.2	2785.4	2897.8	3141.0	3409.4	3393.4
1289.4	55°	1413.3	1629.0	1840.1	2025.9	2328.8	2496.3	2670.7	2946.0	2941.4
1009.5	57.5°	1069.2	1305.5	1505.1	1681.8	1922.7	2129.2	2269.1	2519.2	2551.3
690.6	60°	791.6	972.8	1188.5	1385.8	1576.2	1789.6	1883.7	2129.2	2142.9
472.6	62.5°	539.2	738.8	949.9	1128.8	1271.1	1491.3	1576.2	1778.1	1803.4
302.9	65°	374.0	502.5	743.4	871.9	1046.2	1234.4	1319.3	1479.9	1530.3
174.4	67.5°	247.8	357.9	580.5	697.5	869.6	998.1	1105.9	1236.7	1291.7
110.1	70°	135.4	263.9	415.3	550.7	699.8	823.7	929.2	1034.8	1082.9
50.5	72.5°	91.8	176.7	289.1	435.9	564.4	686.0	780.1	858.1	860.4
29.8	75°	45.9	119.3	220.3	337.3	440.5	559.8	644.7	690.6	635.5
18.4	77.5°	27.5	87.2	179.0	270.7	357.9	452.0	500.2	525.4	435.9
13.8	80°	16.1	61.9	140.0	215.7	247.8	332.7	378.6	385.5	291.4
9.2	82.5°	11.5	45.9	110.1	158.3	151.4	234.0	284.5	275.3	185.8
6.9	85°	6.9	32.1	68.8	98.7	91.8	153.7	165.2	169.8	107.8
4.6	87.5°	4.6	18.4	36.7	52.8	43.6	66.5	66.5	80.3	52.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
12398.8
12091.4
12141.8
11995.0
11793.1
11545.3
11253.9
10905.2
10439.4
9987.4
9420.7
8915.9
8319.4
7745.8
7112.6
6617.0
5999.8
5456.0
4916.8
4396.0
3900.4
3427.8
2952.9
2537.6
2163.6
1808.0
1518.9
1284.9
1064.6
839.7
594.2
419.9
273.0
172.1
98.7
45.9
0.0

(END OF REPORT)