

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: P636752

Luminaire Tested: **IFLD-M-SA4A-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636752
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4A-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (64) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9091.1 lumens
Efficiency: N/A
Efficacy: 70.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

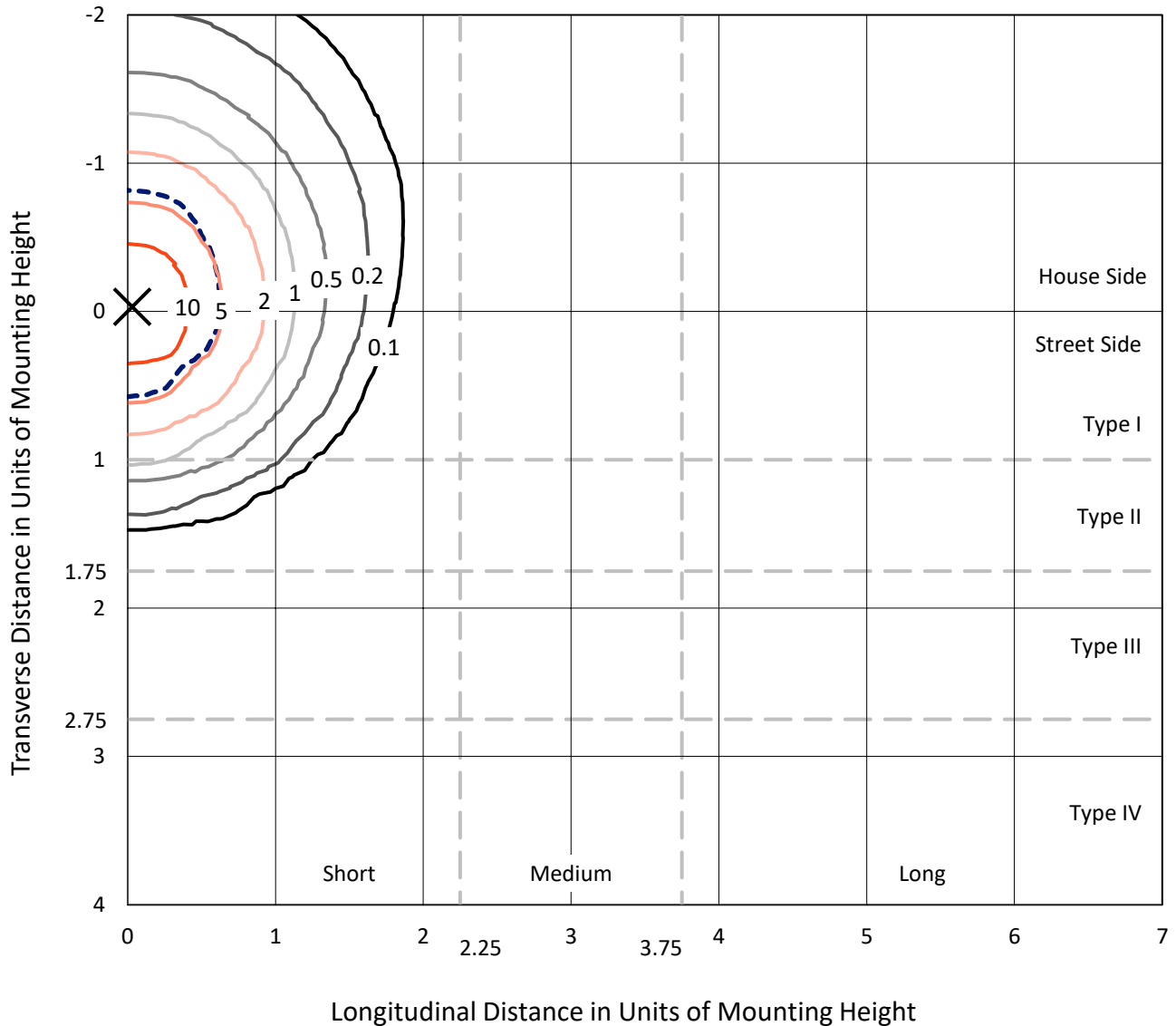
Input Watts (W): 128.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

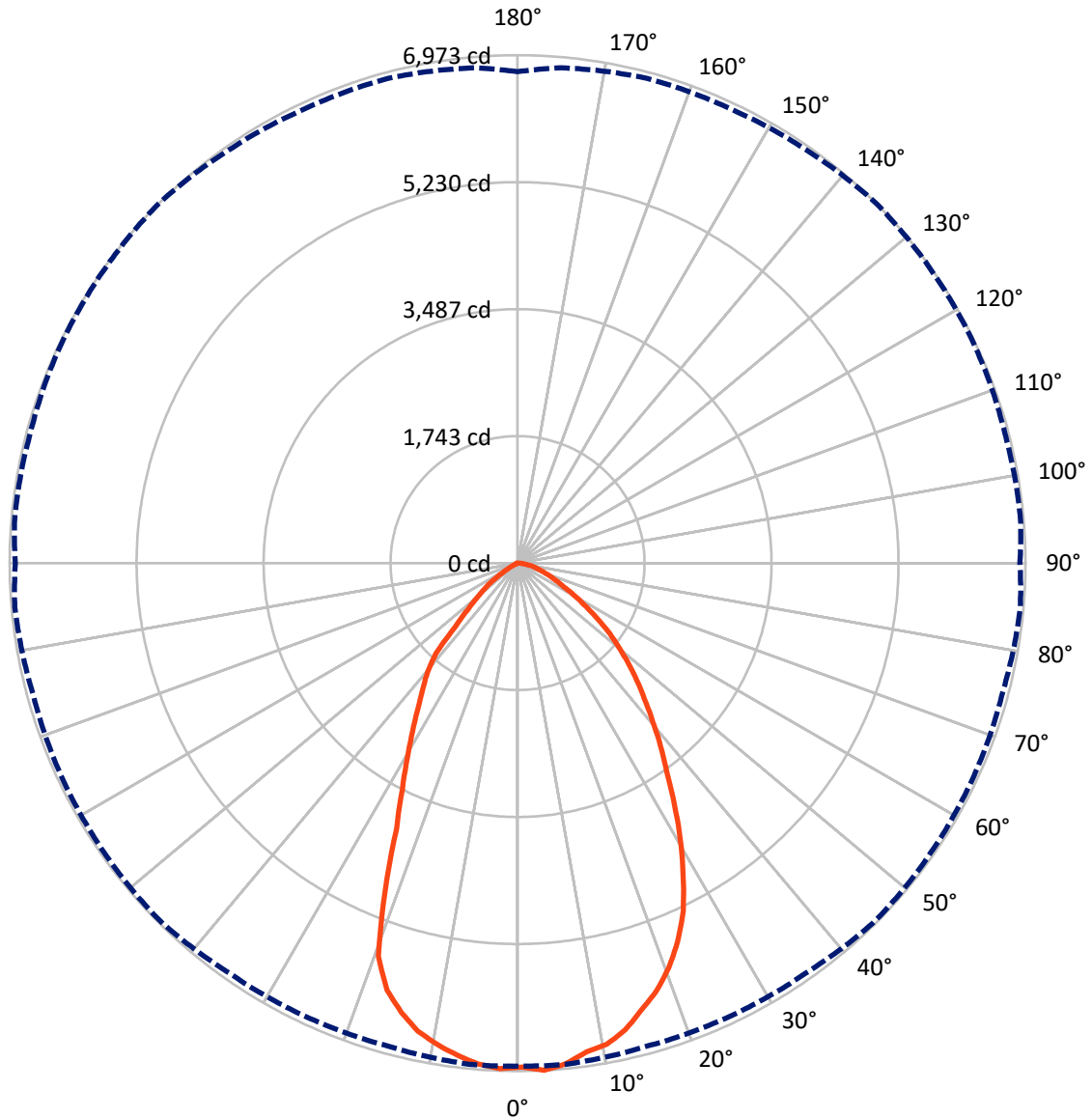
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.3 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	5384.2	0.0	5384.2
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3706.9	0.0	3706.9
	% Fixture	40.8	0.0	40.8
Total	Lumens	9091.1	0.0	9091.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	648.8	7.1
10°-20°	1739.9	19.1
20°-30°	2121.9	23.3
30°-40°	1937.2	21.3
40°-50°	1400.0	15.4
50°-60°	764.4	8.4
60°-70°	316.1	3.5
70°-80°	128.0	1.4
80°-90°	34.8	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°	9091.1	100.0
0°-180°	9091.1	100.0



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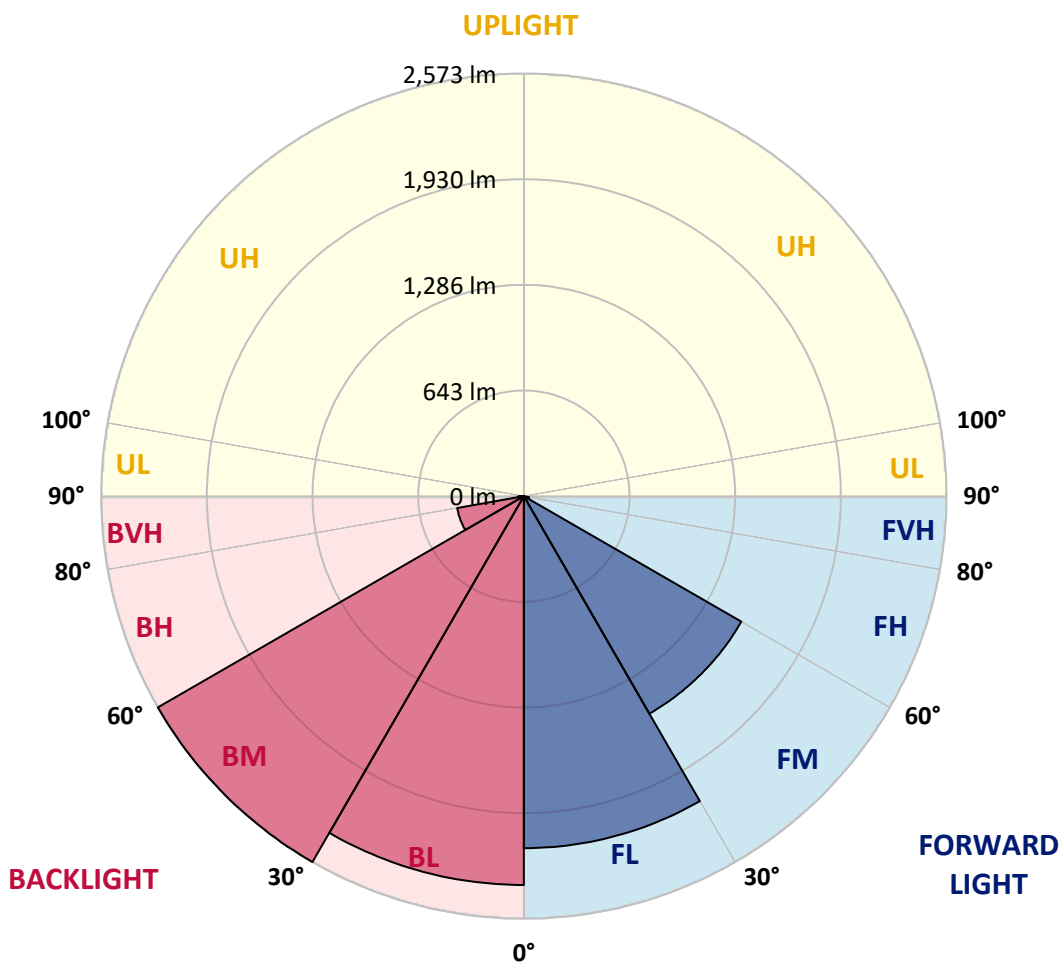
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2143.1	23.6			
FM (30°-60°)	1528.9	16.8			
FH (60°-80°)	32.0	0.4			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	2367.4	26.0	B3/2500		
BM (30°-60°)	2572.7	28.3	B3/5000		
BH (60°-80°)	412.0	4.5	B1/500		G1/500
BVH (80°-90°)	32.0	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6918.3	6918.3	6918.3	6918.3	6918.3	6918.3	6918.3	6918.3	6918.3	6918.3
2.5°	6905.5	6914.4	6865.8	6870.9	6879.9	6945.2	6928.5	6913.2	6891.4	6928.5
5°	6896.5	6901.6	6850.4	6832.5	6840.2	6899.1	6845.3	6845.3	6840.2	6833.8
7.5°	6827.4	6829.9	6790.3	6758.3	6778.7	6805.6	6765.9	6785.1	6757.0	6778.7
10°	6723.7	6707.0	6659.7	6650.7	6673.8	6699.4	6672.5	6690.4	6664.8	6681.4
12.5°	6571.3	6545.7	6507.3	6495.8	6535.5	6570.1	6548.3	6538.1	6504.8	6545.7
15°	5983.7	5964.5	6051.6	6203.9	6340.9	6370.3	6347.3	6357.5	6288.4	6299.9
17.5°	4925.0	4889.1	4982.6	5343.6	5858.3	6129.7	6109.2	6042.6	5940.2	5963.2
20°	4475.6	4465.4	4455.1	4540.9	4900.7	5723.8	5752.0	5583.0	5437.1	5405.1
22.5°	4222.1	4218.3	4208.1	4227.3	4322.0	4850.7	5173.3	5017.2	4919.9	4910.9
25°	3990.4	3984.0	3953.3	3977.6	3977.6	4008.4	4421.9	4516.6	4430.8	4420.6
27.5°	3754.9	3743.3	3738.2	3749.7	3690.9	3483.5	3588.4	4050.6	4005.8	4008.4
30°	3500.1	3496.3	3482.2	3506.5	3324.7	3067.4	3000.8	3628.1	3637.1	3634.5
32.5°	3121.2	3137.8	3201.8	3228.7	2929.1	2716.6	2605.2	3139.1	3322.2	3318.3
35°	2267.3	2267.3	2475.9	2863.8	2566.8	2406.8	2346.6	2661.6	3011.1	3023.9
37.5°	1864.0	1870.4	1911.4	2088.0	2214.8	2158.4	2140.5	2240.4	2611.6	2632.1
40°	1677.1	1677.1	1677.1	1604.1	1600.3	1944.6	1934.4	1902.4	2255.7	2300.5
42.5°	1506.8	1510.7	1513.2	1328.9	1226.4	1680.9	1657.9	1609.2	1937.0	1989.5
45°	1331.4	1337.8	1345.5	1111.2	1066.4	1209.8	1403.1	1349.3	1622.0	1689.9
47.5°	812.9	823.2	997.3	942.2	947.4	933.3	1144.5	1135.6	1330.1	1426.2
50°	549.2	553.1	569.7	597.9	812.9	733.6	810.4	939.7	1010.1	1156.0
52.5°	460.9	467.3	426.3	387.9	533.8	573.5	565.9	697.7	725.9	906.4
55°	323.9	344.4	325.2	321.3	303.4	445.5	428.9	536.4	554.3	688.8
57.5°	33.3	38.4	66.6	239.4	198.4	252.2	306.0	393.0	410.9	508.2
60°	2.6	2.6	6.4	33.3	144.7	151.1	211.2	242.0	276.5	354.6
62.5°	0.0	1.3	2.6	5.1	23.0	80.7	106.3	126.7	166.4	229.2
65°	0.0	0.0	1.3	3.8	5.1	30.7	41.0	66.6	90.9	142.1
67.5°	0.0	0.0	1.3	2.6	3.8	7.7	14.1	24.3	48.6	80.7
70°	0.0	0.0	1.3	2.6	3.8	6.4	10.2	15.4	21.8	43.5
72.5°	0.0	0.0	1.3	1.3	2.6	6.4	7.7	10.2	15.4	21.8
75°	0.0	0.0	1.3	1.3	3.8	7.7	6.4	7.7	10.2	14.1
77.5°	0.0	0.0	1.3	2.6	3.8	7.7	6.4	7.7	7.7	9.0
80°	0.0	0.0	1.3	2.6	5.1	9.0	7.7	7.7	6.4	6.4
82.5°	0.0	0.0	1.3	3.8	5.1	11.5	11.5	10.2	5.1	3.8
85°	0.0	0.0	2.6	5.1	7.7	12.8	12.8	10.2	3.8	2.6
87.5°	0.0	0.0	2.6	3.8	6.4	9.0	12.8	10.2	3.8	1.3
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°
6918.3	0°	6918.3	6918.3	6918.3	6918.3	6918.3	6918.3	6918.3	6918.3	6918.3
6896.5	2.5°	6931.1	6923.4	6949.0	6959.2	6973.3	6919.6	6886.3	6887.6	6826.1
6818.4	5°	6859.4	6860.7	6894.0	6891.4	6905.5	6876.0	6863.2	6841.5	6787.7
6719.8	7.5°	6768.5	6757.0	6789.0	6813.3	6777.5	6797.9	6768.5	6778.7	6746.7
6632.8	10°	6698.1	6671.2	6700.6	6717.3	6718.6	6698.1	6669.9	6643.0	6631.5
6497.1	12.5°	6541.9	6507.3	6557.3	6580.3	6576.5	6536.8	6504.8	6511.2	6474.0
6259.0	15°	6326.8	6328.1	6363.9	6385.7	6365.2	6356.3	6358.8	6343.5	6311.5
5930.0	17.5°	5997.8	6017.0	6111.7	6164.2	6175.8	6157.8	6148.9	6130.9	6098.9
5405.1	20°	5449.9	5565.1	5734.1	5896.7	5928.7	5923.6	5891.5	5883.9	5865.9
4885.3	22.5°	4968.5	5054.3	5250.2	5503.6	5634.2	5647.0	5608.6	5597.1	5577.9
4420.6	25°	4470.5	4562.7	4739.4	5014.6	5284.7	5339.8	5333.4	5298.8	5278.3
4008.4	27.5°	4050.6	4142.8	4302.8	4551.2	4840.5	5017.2	5033.8	4978.8	4977.5
3640.9	30°	3671.7	3798.4	3920.0	4122.3	4402.7	4667.7	4695.8	4657.4	4661.3
3304.2	32.5°	3374.6	3479.6	3583.3	3719.0	3952.0	4260.6	4370.7	4334.8	4320.7
3023.9	35°	3071.2	3142.9	3249.2	3373.4	3532.1	3838.1	4028.8	4002.0	3987.9
2644.9	37.5°	2725.6	2848.5	2925.3	3064.8	3189.0	3432.3	3701.1	3697.3	3667.8
2322.3	40°	2371.0	2500.3	2616.8	2757.6	2853.6	3046.9	3345.2	3343.9	3347.8
1988.2	42.5°	2049.6	2168.7	2309.5	2463.1	2555.3	2696.1	3016.2	3034.1	3055.9
1712.9	45°	1759.0	1866.6	1997.1	2184.0	2295.4	2376.1	2660.3	2742.2	2740.9
1467.1	47.5°	1497.9	1599.0	1709.1	1890.9	2033.0	2106.0	2341.5	2458.0	2450.3
1203.4	50°	1257.2	1346.8	1462.0	1593.9	1784.6	1848.6	2024.0	2177.6	2166.1
958.9	52.5°	1011.4	1135.6	1232.8	1353.2	1554.2	1616.9	1752.6	1902.4	1893.4
719.5	55°	788.6	909.0	1026.7	1130.4	1299.4	1392.9	1490.2	1643.8	1641.2
563.3	57.5°	596.6	728.4	839.8	938.4	1072.8	1188.0	1266.1	1405.7	1423.6
385.3	60°	441.7	542.8	663.2	773.2	879.5	998.6	1051.1	1188.0	1195.7
263.7	62.5°	300.9	412.2	530.0	629.9	709.2	832.1	879.5	992.2	1006.2
169.0	65°	208.7	280.4	414.8	486.5	583.8	688.8	736.1	825.7	853.9
97.3	67.5°	138.3	199.7	323.9	389.2	485.2	556.9	617.1	690.0	720.8
61.5	70°	75.5	147.2	231.7	307.3	390.5	459.6	518.5	577.4	604.3
28.2	72.5°	51.2	98.6	161.3	243.2	314.9	382.8	435.3	478.8	480.1
16.6	75°	25.6	66.6	122.9	188.2	245.8	312.4	359.7	385.3	354.6
10.2	77.5°	15.4	48.6	99.9	151.1	199.7	252.2	279.1	293.2	243.2
7.7	80°	9.0	34.6	78.1	120.3	138.3	185.6	211.2	215.1	162.6
5.1	82.5°	6.4	25.6	61.5	88.3	84.5	130.6	158.7	153.6	103.7
3.8	85°	3.8	17.9	38.4	55.0	51.2	85.8	92.2	94.7	60.2
2.6	87.5°	2.6	10.2	20.5	29.4	24.3	37.1	37.1	44.8	29.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6918.3
6746.7
6774.9
6693.0
6580.3
6442.0
6279.5
6084.9
5825.0
5572.8
5256.6
4974.9
4642.1
4322.0
3968.7
3692.1
3347.8
3044.4
2743.5
2452.9
2176.4
1912.6
1647.6
1415.9
1207.2
1008.8
847.5
716.9
594.0
468.6
331.6
234.3
152.3
96.0
55.0
25.6
0.0

(END OF REPORT)