

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: P638044

Luminaire Tested: **IFLD-S-SA2C-722-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638044
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-722-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8053 lumens
Efficiency: N/A
Efficacy: 74.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

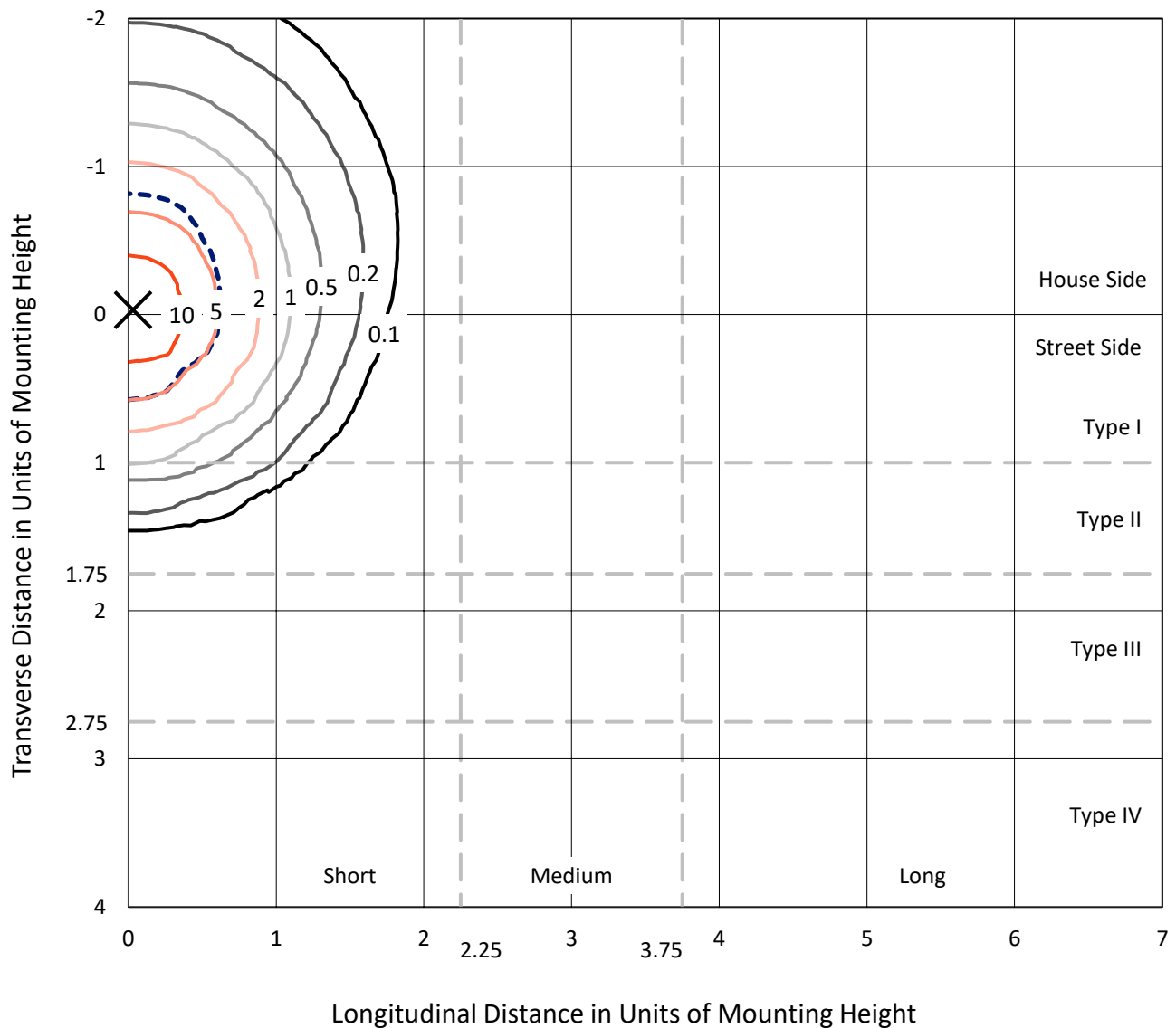
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

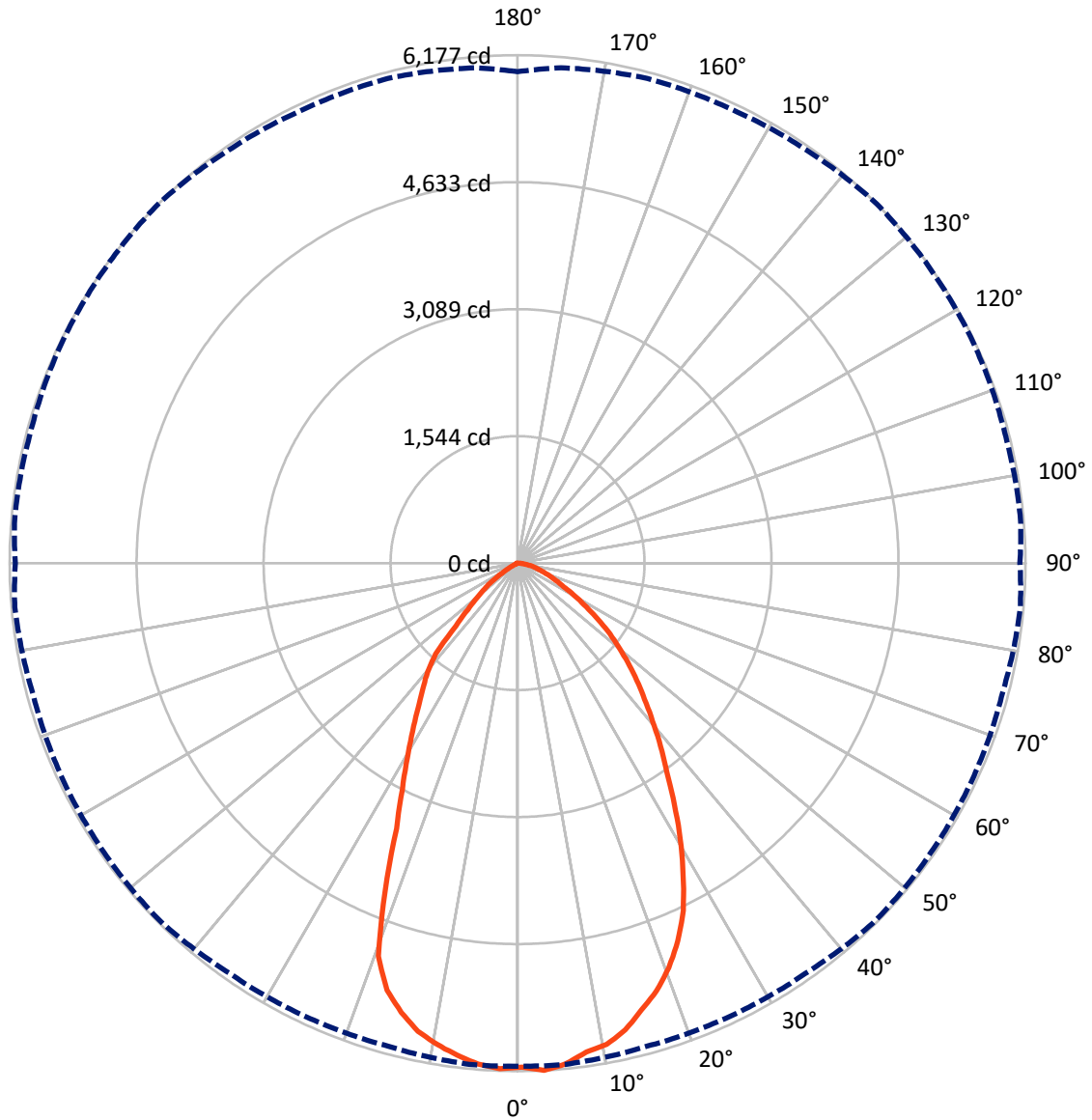
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.3 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	4769.4	0.0	4769.4
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3283.6	0.0	3283.6
	% Fixture	40.8	0.0	40.8
Total	Lumens	8053.0	0.0	8053.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	574.7	7.1
10°-20°	1541.2	19.1
20°-30°	1879.6	23.3
30°-40°	1716.0	21.3
40°-50°	1240.1	15.4
50°-60°	677.1	8.4
60°-70°	280.0	3.5
70°-80°	113.4	1.4
80°-90°	30.8	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°	8053.0	100.0
0°-180°	8053.0	100.0



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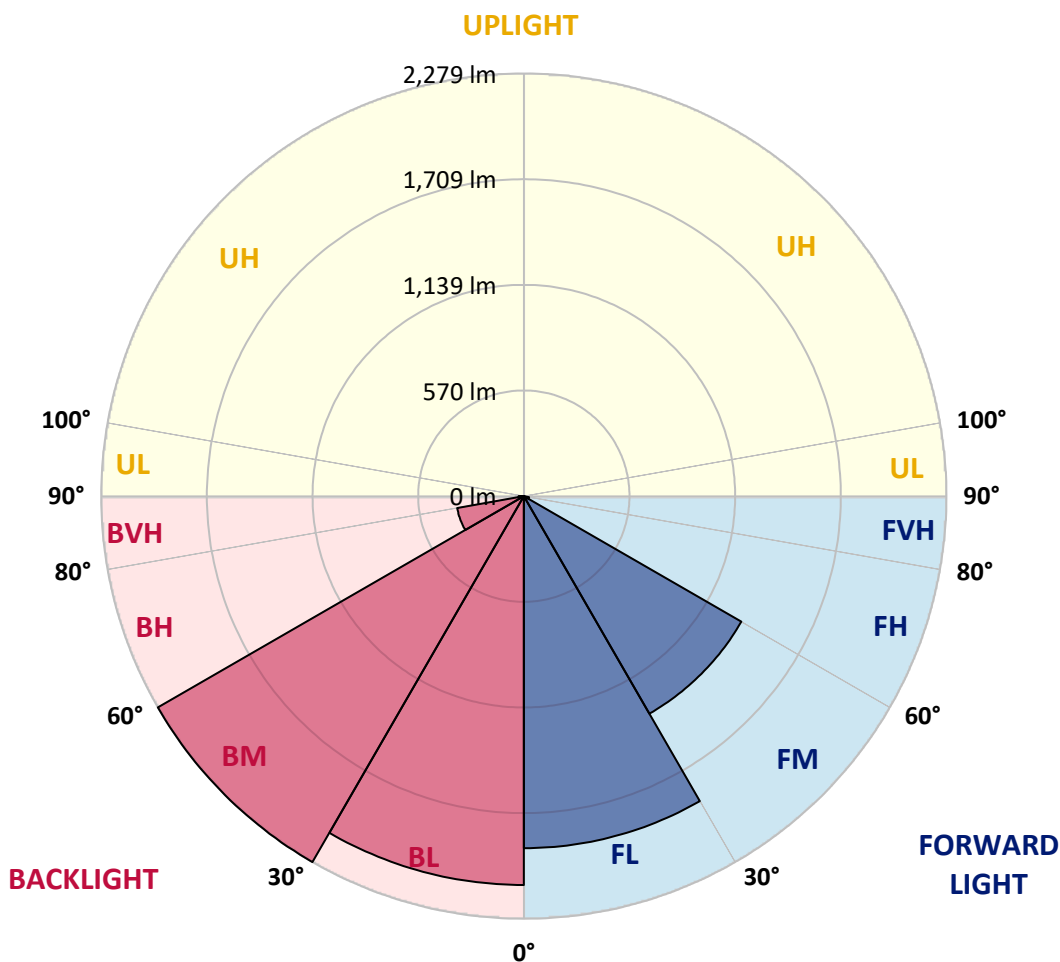
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1898.4	23.6			
FM (30°-60°)	1354.4	16.8			
FH (60°-80°)	28.4	0.4			G0/660
FVH (80°-90°)	2.5	0.0			G0/10
BL (0°-30°)	2097.1	26.0	B3/2500		
BM (30°-60°)	2278.9	28.3	B2/2500		
BH (60°-80°)	365.0	4.5	B1/500		G1/500
BVH (80°-90°)	28.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6128.3	6128.3	6128.3	6128.3	6128.3	6128.3	6128.3	6128.3	6128.3	6128.3
2.5°	6117.0	6124.9	6081.8	6086.4	6094.3	6152.2	6137.4	6123.8	6104.5	6137.4
5°	6109.1	6113.6	6068.2	6052.4	6059.2	6111.3	6063.7	6063.7	6059.2	6053.5
7.5°	6047.8	6050.1	6014.9	5986.6	6004.7	6028.5	5993.4	6010.4	5985.5	6004.7
10°	5956.0	5941.2	5899.3	5891.3	5911.7	5934.4	5910.6	5926.5	5903.8	5918.5
12.5°	5821.0	5798.3	5764.3	5754.1	5789.3	5819.9	5800.6	5791.5	5762.0	5798.3
15°	5300.5	5283.5	5360.6	5495.5	5616.9	5643.0	5622.6	5631.6	5570.4	5580.6
17.5°	4362.6	4330.9	4413.7	4733.5	5189.4	5429.8	5411.6	5352.7	5261.9	5282.3
20°	3964.6	3955.5	3946.5	4022.4	4341.1	5070.3	5095.2	4945.5	4816.3	4787.9
22.5°	3740.1	3736.7	3727.6	3744.6	3828.5	4296.9	4582.6	4444.3	4358.1	4350.2
25°	3534.8	3529.1	3501.9	3523.5	3523.5	3550.7	3917.0	4000.9	3924.9	3915.8
27.5°	3326.1	3315.9	3311.4	3321.6	3269.4	3085.7	3178.7	3588.1	3548.4	3550.7
30°	3100.5	3097.1	3084.6	3106.1	2945.1	2717.2	2658.2	3213.9	3221.8	3219.5
32.5°	2764.8	2779.5	2836.2	2860.0	2594.7	2406.4	2307.8	2780.7	2942.8	2939.4
35°	2008.4	2008.4	2193.2	2536.8	2273.7	2132.0	2078.7	2357.7	2667.3	2678.6
37.5°	1651.2	1656.8	1693.1	1849.6	1961.9	1912.0	1896.1	1984.6	2313.4	2331.6
40°	1485.6	1485.6	1485.6	1420.9	1417.5	1722.6	1713.5	1685.2	1998.2	2037.9
42.5°	1334.8	1338.2	1340.4	1177.1	1086.4	1489.0	1468.6	1425.5	1715.8	1762.3
45°	1179.4	1185.1	1191.9	984.3	944.7	1071.7	1242.9	1195.3	1436.8	1496.9
47.5°	720.1	729.2	883.4	834.7	839.2	826.7	1013.8	1005.9	1178.3	1263.3
50°	486.5	489.9	504.6	529.6	720.1	649.8	717.8	832.4	894.8	1024.0
52.5°	408.3	413.9	377.6	343.6	472.9	508.0	501.2	618.1	643.0	802.9
55°	286.9	305.1	288.0	284.6	268.8	394.6	379.9	475.2	491.0	610.1
57.5°	29.5	34.0	59.0	212.1	175.8	223.4	271.0	348.1	364.0	450.2
60°	2.3	2.3	5.7	29.5	128.1	133.8	187.1	214.3	245.0	314.1
62.5°	0.0	1.1	2.3	4.5	20.4	71.4	94.1	112.3	147.4	203.0
65°	0.0	0.0	1.1	3.4	4.5	27.2	36.3	59.0	80.5	125.9
67.5°	0.0	0.0	1.1	2.3	3.4	6.8	12.5	21.5	43.1	71.4
70°	0.0	0.0	1.1	2.3	3.4	5.7	9.1	13.6	19.3	38.6
72.5°	0.0	0.0	1.1	1.1	2.3	5.7	6.8	9.1	13.6	19.3
75°	0.0	0.0	1.1	1.1	3.4	6.8	5.7	6.8	9.1	12.5
77.5°	0.0	0.0	1.1	2.3	3.4	6.8	5.7	6.8	6.8	7.9
80°	0.0	0.0	1.1	2.3	4.5	7.9	6.8	6.8	5.7	5.7
82.5°	0.0	0.0	1.1	3.4	4.5	10.2	10.2	9.1	4.5	3.4
85°	0.0	0.0	2.3	4.5	6.8	11.3	11.3	9.1	3.4	2.3
87.5°	0.0	0.0	2.3	3.4	5.7	7.9	11.3	9.1	3.4	1.1
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°
6128.3	0°	6128.3	6128.3	6128.3	6128.3	6128.3	6128.3	6128.3	6128.3	6128.3
6109.1	2.5°	6139.7	6132.9	6155.6	6164.6	6177.1	6129.5	6100.0	6101.1	6046.7
6039.9	5°	6076.2	6077.3	6106.8	6104.5	6117.0	6090.9	6079.6	6060.3	6012.7
5952.6	7.5°	5995.7	5985.5	6013.8	6035.4	6003.6	6021.7	5995.7	6004.7	5976.4
5875.5	10°	5933.3	5909.5	5935.6	5950.3	5951.4	5933.3	5908.3	5884.5	5874.3
5755.2	12.5°	5794.9	5764.3	5808.5	5829.0	5825.6	5790.4	5762.0	5767.7	5734.8
5544.3	15°	5604.4	5605.6	5637.3	5656.6	5638.4	5630.5	5632.8	5619.2	5590.8
5252.9	17.5°	5313.0	5330.0	5413.9	5460.4	5470.6	5454.7	5446.8	5430.9	5402.6
4787.9	20°	4827.6	4929.7	5079.4	5223.4	5251.7	5247.2	5218.8	5212.0	5196.2
4327.5	22.5°	4401.2	4477.2	4650.7	4875.2	4990.9	5002.2	4968.2	4958.0	4941.0
3915.8	25°	3960.1	4041.7	4198.2	4442.0	4681.3	4730.1	4724.4	4693.8	4675.6
3550.7	27.5°	3588.1	3669.7	3811.5	4031.5	4287.8	4444.3	4459.0	4410.3	4409.1
3225.2	30°	3252.4	3364.7	3472.4	3651.6	3900.0	4134.7	4159.7	4125.6	4129.0
2927.0	32.5°	2989.3	3082.3	3174.2	3294.4	3500.8	3774.1	3871.6	3839.9	3827.4
2678.6	35°	2720.6	2784.1	2878.2	2988.2	3128.8	3399.8	3568.8	3545.0	3532.5
2342.9	37.5°	2414.4	2523.2	2591.3	2714.9	2824.9	3040.4	3278.5	3275.1	3249.0
2057.1	40°	2100.2	2214.8	2318.0	2442.7	2527.8	2699.0	2963.2	2962.1	2965.5
1761.2	42.5°	1815.6	1921.1	2045.8	2181.9	2263.5	2388.3	2671.8	2687.7	2706.9
1517.3	45°	1558.2	1653.4	1769.1	1934.7	2033.3	2104.8	2356.5	2429.1	2428.0
1299.6	47.5°	1326.8	1416.4	1513.9	1675.0	1800.9	1865.5	2074.2	2177.4	2170.5
1066.0	50°	1113.6	1193.0	1295.1	1411.9	1580.8	1637.6	1792.9	1929.0	1918.8
849.4	52.5°	895.9	1005.9	1092.1	1198.7	1376.7	1432.3	1552.5	1685.2	1677.2
637.3	55°	698.6	805.2	909.5	1001.4	1151.0	1233.8	1320.0	1456.1	1453.8
499.0	57.5°	528.5	645.3	743.9	831.2	950.3	1052.4	1121.6	1245.2	1261.1
341.3	60°	391.2	480.8	587.4	685.0	779.1	884.5	931.0	1052.4	1059.2
233.6	62.5°	266.5	365.2	469.5	557.9	628.3	737.1	779.1	878.9	891.4
149.7	65°	184.8	248.4	367.4	430.9	517.1	610.1	652.1	731.5	756.4
86.2	67.5°	122.5	176.9	286.9	344.7	429.8	493.3	546.6	611.2	638.5
54.4	70°	66.9	130.4	205.3	272.2	345.9	407.1	459.3	511.5	535.3
24.9	72.5°	45.4	87.3	142.9	215.5	279.0	339.1	385.6	424.1	425.3
14.7	75°	22.7	59.0	108.9	166.7	217.7	276.7	318.7	341.3	314.1
9.1	77.5°	13.6	43.1	88.5	133.8	176.9	223.4	247.2	259.7	215.5
6.8	80°	7.9	30.6	69.2	106.6	122.5	164.4	187.1	190.5	144.0
4.5	82.5°	5.7	22.7	54.4	78.2	74.8	115.7	140.6	136.1	91.9
3.4	85°	3.4	15.9	34.0	48.8	45.4	76.0	81.7	83.9	53.3
2.3	87.5°	2.3	9.1	18.1	26.1	21.5	32.9	32.9	39.7	26.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6128.3
5976.4
6001.3
5928.8
5829.0
5706.5
5562.5
5390.1
5159.9
4936.5
4656.4
4406.9
4112.0
3828.5
3515.5
3270.6
2965.5
2696.7
2430.2
2172.8
1927.9
1694.3
1459.5
1254.2
1069.4
893.6
750.7
635.1
526.2
415.1
293.7
207.5
135.0
85.1
48.8
22.7
0.0

(END OF REPORT)