

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: P638188

Luminaire Tested: **IFLD-S-SA2B-750-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638188
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8983.5 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

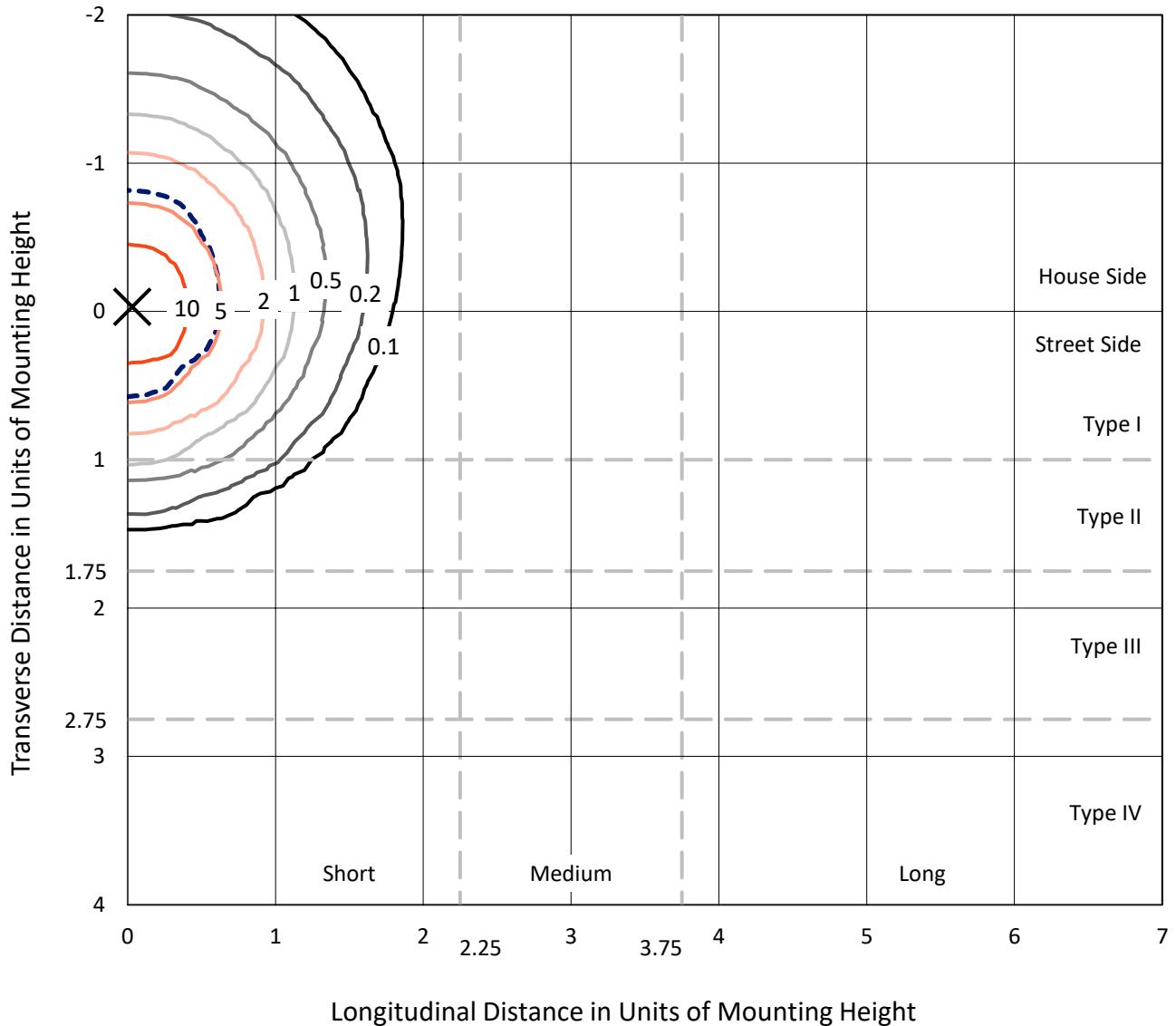
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638188
 CATALOG NUMBER: IFLD-S-SA2B-750-U-77-VI

Iso-Footcandle Lines of Horizontal Illumination

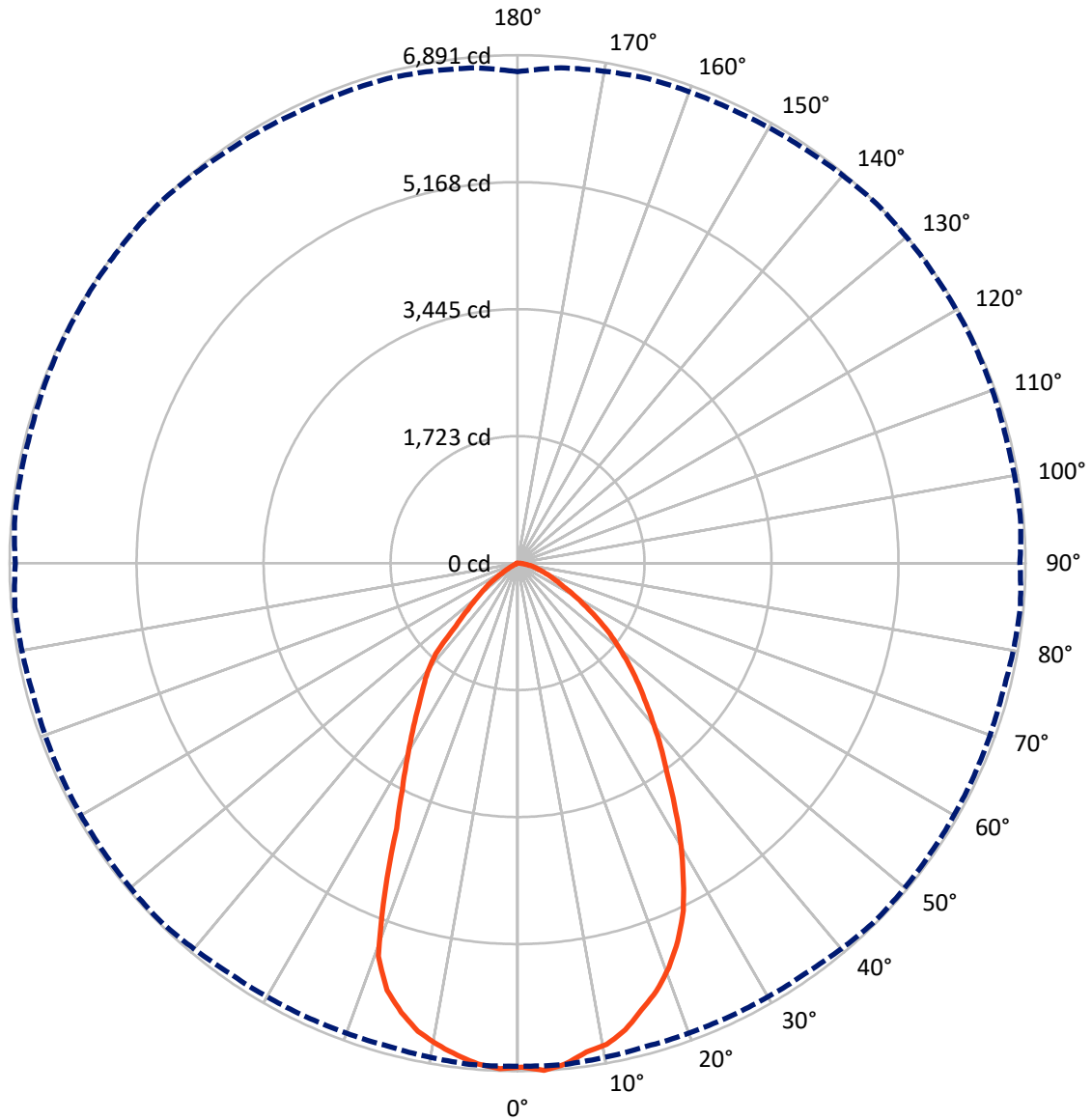
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.1 fc
 Type I - Short - N/A

REPORT NUMBER: P638188
CATALOG NUMBER: IFLD-S-SA2B-750-U-77-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

REPORT NUMBER: P638188

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5320.5	0.0	5320.5
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3663.0	0.0	3663.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	8983.5	0.0	8983.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	641.1	7.1
10°-20°	1719.3	19.1
20°-30°	2096.8	23.3
30°-40°	1914.3	21.3
40°-50°	1383.4	15.4
50°-60°	755.4	8.4
60°-70°	312.3	3.5
70°-80°	126.5	1.4
80°-90°	34.4	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°	8983.5	100.0
0°-180°	8983.5	100.0



REPORT NUMBER: P638188

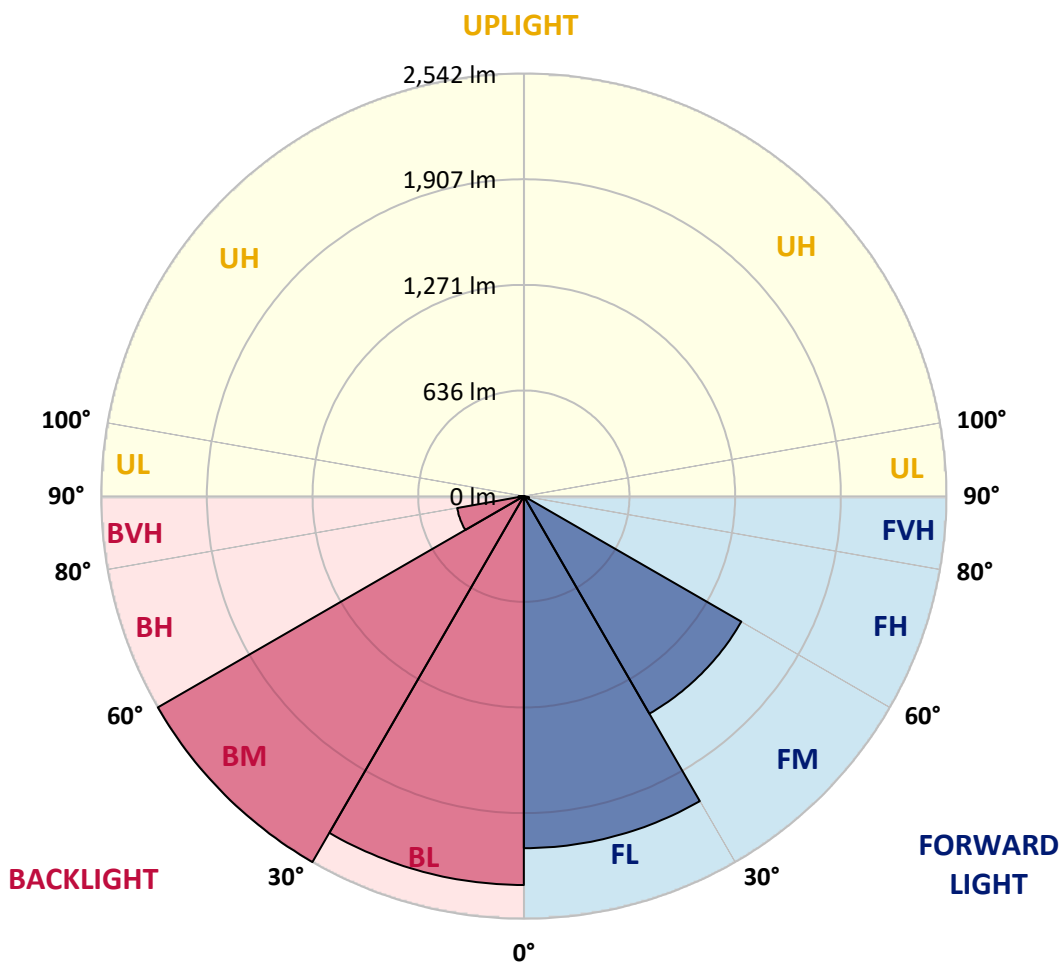
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2117.7	23.6			
FM (30°-60°)	1510.9	16.8			
FH (60°-80°)	31.7	0.4			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	2339.4	26.0	B3/2500		
BM (30°-60°)	2542.3	28.3	B3/5000		
BH (60°-80°)	407.2	4.5	B1/500		G1/500
BVH (80°-90°)	31.7	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





REPORT NUMBER: P638188
 CATALOG NUMBER: IFLD-S-SA2B-750-U-77-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6836.4	6836.4	6836.4	6836.4	6836.4	6836.4	6836.4	6836.4	6836.4	6836.4
2.5°	6823.8	6832.6	6784.5	6789.6	6798.5	6863.0	6846.5	6831.3	6809.8	6846.5
5°	6814.9	6820.0	6769.4	6751.6	6759.2	6817.4	6764.3	6764.3	6759.2	6752.9
7.5°	6746.6	6749.1	6709.9	6678.3	6698.5	6725.1	6685.9	6704.8	6677.0	6698.5
10°	6644.1	6627.7	6580.9	6572.0	6594.8	6620.1	6593.5	6611.2	6585.9	6602.4
12.5°	6493.6	6468.3	6430.3	6418.9	6458.2	6492.3	6470.8	6460.7	6427.8	6468.3
15°	5912.9	5893.9	5980.0	6130.5	6265.9	6295.0	6272.2	6282.3	6214.0	6225.4
17.5°	4866.7	4831.3	4923.6	5280.4	5788.9	6057.1	6036.9	5971.1	5869.9	5892.7
20°	4422.7	4412.5	4402.4	4487.2	4842.7	5656.1	5683.9	5516.9	5372.7	5341.1
22.5°	4172.2	4168.4	4158.3	4177.2	4270.9	4793.3	5112.1	4957.8	4861.6	4852.8
25°	3943.2	3936.9	3906.5	3930.6	3930.6	3960.9	4369.5	4463.1	4378.4	4368.3
27.5°	3710.4	3699.0	3694.0	3705.4	3647.2	3442.2	3546.0	4002.7	3958.4	3960.9
30°	3458.7	3454.9	3441.0	3465.0	3285.4	3031.1	2965.3	3585.2	3594.0	3591.5
32.5°	3084.2	3100.7	3163.9	3190.5	2894.5	2684.5	2574.4	3101.9	3282.8	3279.0
35°	2240.4	2240.4	2446.6	2829.9	2536.5	2378.3	2318.9	2630.1	2975.4	2988.1
37.5°	1841.9	1848.3	1888.7	2063.3	2188.6	2132.9	2115.2	2213.9	2580.7	2601.0
40°	1657.2	1657.2	1657.2	1585.1	1581.3	1921.6	1911.5	1879.9	2229.0	2273.3
42.5°	1489.0	1492.8	1495.3	1313.1	1211.9	1661.0	1638.3	1590.2	1914.0	1965.9
45°	1315.7	1322.0	1329.6	1098.1	1053.8	1195.5	1386.5	1333.4	1602.8	1669.9
47.5°	803.3	813.4	985.5	931.1	936.1	922.2	1131.0	1122.1	1314.4	1409.3
50°	542.7	546.5	563.0	590.8	803.3	724.9	800.8	928.6	998.1	1142.4
52.5°	455.4	461.7	421.3	383.3	527.5	566.7	559.2	689.5	717.3	895.7
55°	320.1	340.3	321.3	317.5	299.8	440.2	423.8	530.1	547.8	680.6
57.5°	32.9	38.0	65.8	236.6	196.1	249.2	302.4	388.4	406.1	502.2
60°	2.5	2.5	6.3	32.9	143.0	149.3	208.7	239.1	273.3	350.4
62.5°	0.0	1.3	2.5	5.1	22.8	79.7	105.0	125.2	164.5	226.4
65°	0.0	0.0	1.3	3.8	5.1	30.4	40.5	65.8	89.8	140.4
67.5°	0.0	0.0	1.3	2.5	3.8	7.6	13.9	24.0	48.1	79.7
70°	0.0	0.0	1.3	2.5	3.8	6.3	10.1	15.2	21.5	43.0
72.5°	0.0	0.0	1.3	1.3	2.5	6.3	7.6	10.1	15.2	21.5
75°	0.0	0.0	1.3	1.3	3.8	7.6	6.3	7.6	10.1	13.9
77.5°	0.0	0.0	1.3	2.5	3.8	7.6	6.3	7.6	7.6	8.9
80°	0.0	0.0	1.3	2.5	5.1	8.9	7.6	7.6	6.3	6.3
82.5°	0.0	0.0	1.3	3.8	5.1	11.4	11.4	10.1	5.1	3.8
85°	0.0	0.0	2.5	5.1	7.6	12.7	12.7	10.1	3.8	2.5
87.5°	0.0	0.0	2.5	3.8	6.3	8.9	12.7	10.1	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



REPORT NUMBER: P638188
 CATALOG NUMBER: IFLD-S-SA2B-750-U-77-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6836.4	0°	6836.4	6836.4	6836.4	6836.4	6836.4	6836.4	6836.4	6836.4	6836.4
6814.9	2.5°	6849.1	6841.5	6866.8	6876.9	6890.8	6837.7	6804.8	6806.0	6745.3
6737.7	5°	6778.2	6779.5	6812.4	6809.8	6823.8	6794.7	6782.0	6760.5	6707.4
6640.3	7.5°	6688.4	6677.0	6708.6	6732.7	6697.2	6717.5	6688.4	6698.5	6666.9
6554.3	10°	6618.8	6592.2	6621.3	6637.8	6639.1	6618.8	6591.0	6564.4	6553.0
6420.2	12.5°	6464.5	6430.3	6479.7	6502.4	6498.6	6459.4	6427.8	6434.1	6397.4
6184.9	15°	6251.9	6253.2	6288.6	6310.1	6289.9	6281.0	6283.6	6268.4	6236.8
5859.8	17.5°	5926.8	5945.8	6039.4	6091.3	6102.7	6085.0	6076.1	6058.4	6026.8
5341.1	20°	5385.4	5499.2	5666.2	5826.9	5858.5	5853.5	5821.8	5814.2	5796.5
4827.5	22.5°	4909.7	4994.5	5188.0	5438.5	5567.5	5580.2	5542.2	5530.9	5511.9
4368.3	25°	4417.6	4508.7	4683.3	4955.3	5222.2	5276.6	5270.3	5236.1	5215.9
3960.9	27.5°	4002.7	4093.7	4251.9	4497.3	4783.2	4957.8	4974.2	4919.8	4918.6
3597.8	30°	3628.2	3753.4	3873.6	4073.5	4350.6	4612.4	4640.3	4602.3	4606.1
3265.1	32.5°	3334.7	3438.4	3540.9	3675.0	3905.3	4210.1	4318.9	4283.5	4269.6
2988.1	35°	3034.9	3105.7	3210.7	3333.4	3490.3	3792.7	3981.2	3954.6	3940.7
2613.6	37.5°	2693.3	2814.8	2890.7	3028.6	3151.3	3391.6	3657.3	3653.5	3624.4
2294.8	40°	2342.9	2470.7	2585.8	2724.9	2819.8	3010.9	3305.6	3304.3	3308.1
1964.6	42.5°	2025.4	2143.0	2282.2	2434.0	2525.1	2664.2	2980.5	2998.2	3019.7
1692.7	45°	1738.2	1844.5	1973.5	2158.2	2268.3	2348.0	2628.8	2709.8	2708.5
1449.8	47.5°	1480.1	1580.1	1688.9	1868.5	2008.9	2081.0	2313.8	2428.9	2421.3
1189.2	50°	1242.3	1330.8	1444.7	1575.0	1763.5	1826.8	2000.1	2151.9	2140.5
947.5	52.5°	999.4	1122.1	1218.3	1337.2	1535.8	1597.8	1731.9	1879.9	1871.0
711.0	55°	779.3	898.2	1014.6	1117.1	1284.0	1376.4	1472.5	1624.3	1621.8
556.6	57.5°	589.5	719.8	829.9	927.3	1060.1	1174.0	1251.1	1389.0	1406.8
380.8	60°	436.4	536.4	655.3	764.1	869.1	986.7	1038.6	1174.0	1181.6
260.6	62.5°	297.3	407.4	523.7	622.4	700.8	822.3	869.1	980.4	994.3
167.0	65°	206.2	277.0	409.9	480.7	576.9	680.6	727.4	816.0	843.8
96.1	67.5°	136.6	197.3	320.1	384.6	479.5	550.3	609.8	681.9	712.2
60.7	70°	74.6	145.5	229.0	303.6	385.8	454.2	512.4	570.5	597.1
27.8	72.5°	50.6	97.4	159.4	240.4	311.2	378.3	430.1	473.1	474.4
16.4	75°	25.3	65.8	121.4	186.0	242.9	308.7	355.5	380.8	350.4
10.1	77.5°	15.2	48.1	98.7	149.3	197.3	249.2	275.8	289.7	240.4
7.6	80°	8.9	34.2	77.2	118.9	136.6	183.4	208.7	212.5	160.7
5.1	82.5°	6.3	25.3	60.7	87.3	83.5	129.0	156.9	151.8	102.5
3.8	85°	3.8	17.7	38.0	54.4	50.6	84.8	91.1	93.6	59.5
2.5	87.5°	2.5	10.1	20.2	29.1	24.0	36.7	36.7	44.3	29.1
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6836.4
6666.9
6694.7
6613.8
6502.4
6365.8
6205.1
6012.8
5756.0
5506.8
5194.4
4916.0
4587.1
4270.9
3921.7
3648.4
3308.1
3008.3
2711.0
2423.9
2150.6
1890.0
1628.1
1399.2
1193.0
996.9
837.5
708.4
587.0
463.0
327.7
231.5
150.5
94.9
54.4
25.3
0.0

(END OF REPORT)