

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: P638311

Luminaire Tested: **IFLD-S-SA3D-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638311
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12653.4 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G2

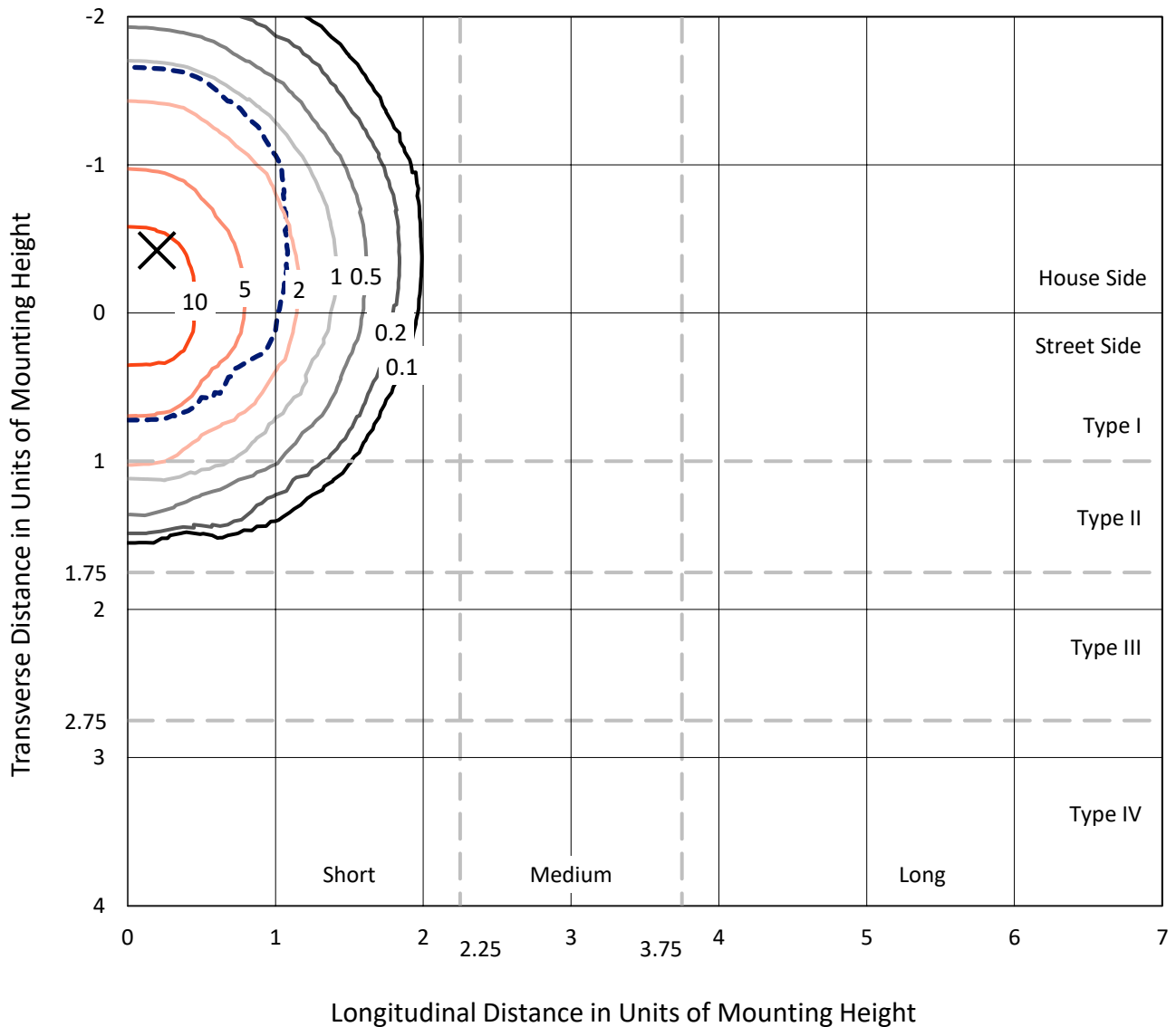
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

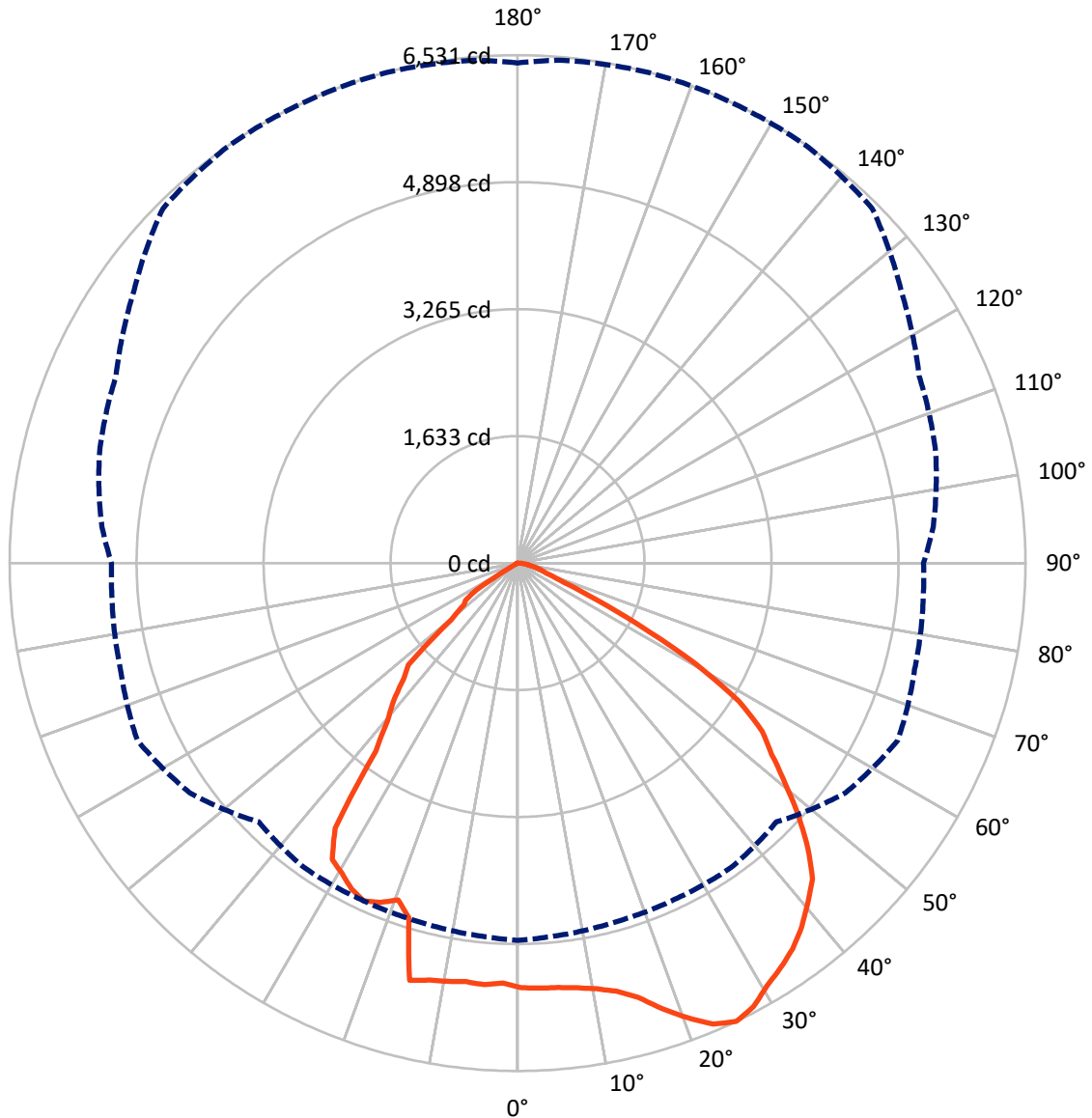
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7833.8	0.0	7833.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4819.7	0.0	4819.7
	% Fixture	38.1	0.0	38.1
Total	Lumens	12653.4	0.0	12653.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.8	4.1
10°-20°	1599.4	12.6
20°-30°	2528.5	20.0
30°-40°	2856.2	22.6
40°-50°	2674.8	21.1
50°-60°	1844.1	14.6
60°-70°	495.5	3.9
70°-80°	103.3	0.8
80°-90°	27.9	0.2
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°	12653.4	100.0
0°-180°	12653.4	100.0



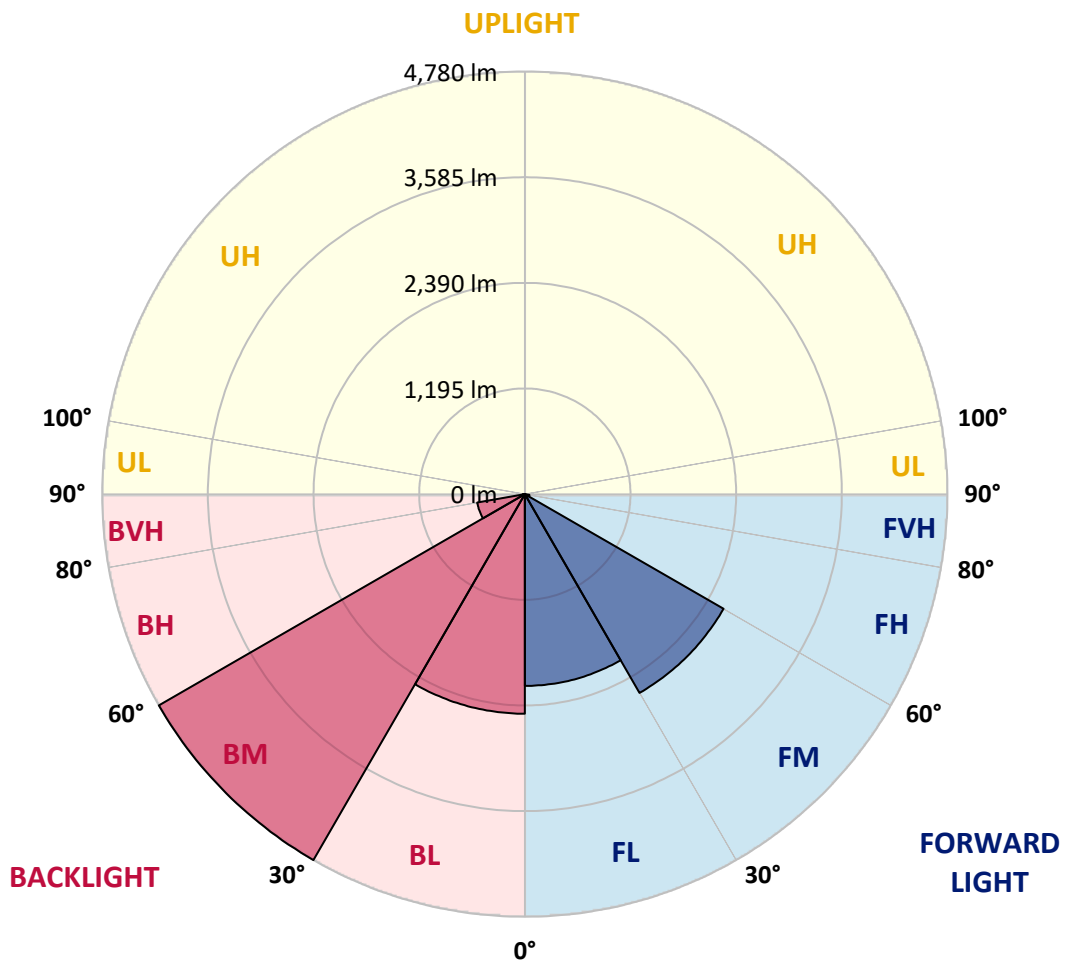
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2168.4	17.1			
FM	(30°-60°)	2595.5	20.5			
FH	(60°-80°)	52.0	0.4			G0/660
FVH	(80°-90°)	3.8	0.0			G0/10
BL	(0°-30°)	2483.3	19.6	B3/2500		
BM	(30°-60°)	4779.6	37.8	B3/5000		
BH	(60°-80°)	546.7	4.3	B2/1000		G2/1000
BVH	(80°-90°)	24.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5459.7	5459.7	5459.7	5459.7	5459.7	5459.7	5459.7	5459.7	5459.7	5459.7
2.5°	5483.9	5448.6	5415.1	5403.9	5450.4	5500.6	5469.0	5470.9	5459.7	5480.2
5°	5524.8	5476.5	5454.1	5437.4	5444.8	5496.9	5452.3	5469.0	5450.4	5474.6
7.5°	5509.9	5476.5	5454.1	5422.5	5446.7	5508.1	5465.3	5467.2	5457.9	5480.2
10°	5500.6	5476.5	5448.6	5452.3	5480.2	5532.2	5498.8	5517.4	5504.3	5517.4
12.5°	5522.9	5496.9	5482.0	5482.0	5506.2	5565.7	5549.0	5565.7	5560.1	5571.3
15°	5312.8	5337.0	5478.3	5541.5	5589.9	5649.4	5642.0	5658.7	5662.4	5679.1
17.5°	4481.6	4457.4	4446.2	4771.7	5636.4	5820.5	5814.9	5813.0	5794.4	5781.4
20°	4591.3	4582.0	4569.0	4593.2	4689.9	5909.7	5946.9	5718.2	5651.3	5645.7
22.5°	4766.1	4751.2	4702.9	4704.7	4734.5	5138.0	5762.8	5554.6	5532.2	5519.2
25°	4851.6	4821.9	4782.8	4771.7	4781.0	4706.6	5147.3	5394.6	5284.9	5234.7
27.5°	4701.0	4702.9	4671.3	4701.0	4665.7	4331.0	4143.1	5082.2	5078.5	5056.2
30°	4587.6	4582.0	4544.8	4582.0	4338.4	3964.6	3884.7	4740.1	4701.0	4671.3
32.5°	4239.8	4243.6	4351.4	4496.5	4096.6	3801.0	3559.2	4234.3	4604.3	4587.6
35°	3033.0	3040.4	3423.5	4139.4	3730.3	3475.5	3457.0	3659.6	4451.8	4459.3
37.5°	2919.5	2919.5	2910.2	3027.4	3442.1	3343.5	3380.7	3360.3	4078.1	4096.6
40°	2837.7	2821.0	2808.0	2623.9	2393.3	3250.5	3276.6	3183.6	3854.9	3858.6
42.5°	2739.2	2720.6	2724.3	2384.0	2142.2	3020.0	2947.4	2822.8	3483.0	3486.7
45°	2558.8	2590.4	2612.7	2086.4	2067.8	2157.1	2718.7	2640.6	3231.9	3300.7
47.5°	1301.7	1329.6	2040.0	1919.1	1961.9	1917.2	2296.6	2298.4	2688.9	2917.7
50°	1180.8	1173.4	1175.3	1119.5	1811.2	1550.9	1660.6	2106.9	2153.4	2480.7
52.5°	1100.9	1099.0	985.6	875.9	1138.1	1364.9	1205.0	1524.9	1601.1	2101.3
55°	814.5	874.0	777.3	823.8	712.2	1093.4	1087.9	1376.1	1402.1	1684.8
57.5°	7.4	9.3	22.3	626.7	492.8	546.7	751.3	939.1	985.6	1312.9
60°	1.9	3.7	9.3	18.6	319.8	336.6	502.1	543.0	611.8	782.9
62.5°	0.0	0.0	3.7	9.3	16.7	137.6	159.9	174.8	269.6	399.8
65°	0.0	0.0	1.9	5.6	9.3	22.3	39.1	81.8	117.2	145.0
67.5°	0.0	0.0	1.9	3.7	7.4	11.2	22.3	31.6	50.2	85.5
70°	0.0	0.0	1.9	3.7	5.6	9.3	14.9	22.3	29.8	42.8
72.5°	0.0	0.0	1.9	3.7	3.7	11.2	11.2	16.7	22.3	27.9
75°	0.0	0.0	1.9	1.9	3.7	7.4	11.2	13.0	14.9	22.3
77.5°	0.0	0.0	1.9	3.7	5.6	7.4	9.3	14.9	13.0	13.0
80°	0.0	0.0	1.9	5.6	5.6	9.3	11.2	14.9	9.3	9.3
82.5°	0.0	0.0	1.9	7.4	5.6	18.6	18.6	20.5	7.4	7.4
85°	0.0	0.0	5.6	3.7	11.2	18.6	16.7	11.2	9.3	5.6
87.5°	0.0	0.0	1.9	1.9	3.7	5.6	13.0	11.2	3.7	3.7
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°
5459.7	0°	5459.7	5459.7	5459.7	5459.7	5459.7	5459.7	5459.7	5459.7	5459.7
5426.2	2.5°	5500.6	5476.5	5526.7	5521.1	5496.9	5485.8	5472.7	5461.6	5379.8
5430.0	5°	5502.5	5465.3	5526.7	5515.5	5511.8	5493.2	5482.0	5498.8	5424.4
5444.8	7.5°	5502.5	5465.3	5532.2	5536.0	5530.4	5515.5	5513.6	5524.8	5463.4
5470.9	10°	5539.7	5524.8	5580.6	5586.2	5578.7	5575.0	5565.7	5558.3	5493.2
5560.1	12.5°	5617.8	5588.0	5651.3	5668.0	5662.4	5671.7	5649.4	5660.6	5593.6
5651.3	15°	5712.6	5714.5	5762.8	5800.0	5796.3	5826.1	5792.6	5822.3	5774.0
5755.4	17.5°	5857.7	5878.1	5946.9	6002.7	6023.2	6045.5	6023.2	6032.5	5963.7
5640.1	20°	5705.2	5781.4	6112.4	6214.7	6257.5	6277.9	6240.7	6251.9	6183.1
5498.8	22.5°	5567.6	5666.1	5959.9	6279.8	6411.8	6452.7	6439.7	6437.9	6411.8
5219.8	25°	5364.9	5563.9	5695.9	6034.3	6449.0	6523.4	6530.8	6529.0	6489.9
5048.8	27.5°	5115.7	5160.3	5502.5	5708.9	6188.7	6471.3	6460.2	6406.2	6354.2
4693.6	30°	4797.7	5000.4	5154.7	5483.9	5852.1	6311.4	6311.4	6270.5	6216.6
4567.1	32.5°	4635.9	4898.1	5041.3	5160.3	5474.6	6132.9	6207.3	6164.5	6121.7
4468.6	35°	4550.4	4589.4	4924.2	5032.0	5297.9	5788.9	6090.1	6047.3	6015.7
4206.4	37.5°	4362.6	4453.7	4609.9	4898.1	4979.9	5508.1	5933.9	5911.6	5874.4
3866.1	40°	3944.2	4187.8	4427.7	4701.0	4786.6	5147.3	5744.2	5753.5	5703.3
3503.4	42.5°	3696.8	3862.3	4238.0	4422.1	4652.7	4914.9	5560.1	5575.0	5539.7
3319.3	45°	3406.7	3590.8	3854.9	4189.6	4503.9	4595.0	5234.7	5390.9	5361.2
2953.0	47.5°	3140.8	3289.6	3613.2	3951.6	4299.3	4286.3	4860.9	5154.7	5113.8
2672.2	50°	2763.3	3023.7	3176.2	3486.7	4005.5	4040.9	4463.0	4877.7	4844.2
2270.5	52.5°	2330.0	2657.3	2949.3	3233.8	3708.0	3791.7	4092.9	4595.0	4572.7
1735.0	55°	2036.2	2274.3	2603.4	2832.1	3347.2	3570.4	3815.9	4325.4	4314.2
1426.3	57.5°	1448.6	1907.9	2179.4	2499.3	2770.8	3174.3	3356.5	3776.8	3672.7
790.3	60°	981.9	1197.6	1528.6	1872.6	2054.8	2458.4	2627.6	2964.2	2936.3
472.3	62.5°	518.8	717.8	954.0	1126.9	1258.9	1651.3	1722.0	2084.6	2075.3
189.7	65°	228.7	303.1	517.0	606.2	742.0	924.2	985.6	1115.7	1084.1
93.0	67.5°	119.0	180.4	292.0	358.9	451.9	520.7	570.9	611.8	637.8
61.4	70°	72.5	132.0	180.4	249.2	310.5	366.3	405.4	461.2	494.6
31.6	72.5°	53.9	83.7	124.6	191.5	225.0	290.1	329.1	370.1	399.8
26.0	75°	29.8	55.8	100.4	150.6	180.4	236.2	271.5	299.4	308.7
14.9	77.5°	18.6	42.8	83.7	117.2	141.3	191.5	182.2	208.3	230.6
11.2	80°	13.0	31.6	65.1	96.7	98.6	122.7	145.0	167.4	182.2
7.4	82.5°	9.3	26.0	48.3	74.4	65.1	94.8	113.4	130.2	94.8
5.6	85°	7.4	18.6	24.2	44.6	37.2	66.9	57.6	55.8	37.2
3.7	87.5°	5.6	9.3	16.7	20.5	14.9	14.9	18.6	22.3	18.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5459.7
5324.0
5361.2
5392.8
5439.3
5534.1
5694.0
5904.2
6134.7
6328.1
6430.4
6313.3
6196.1
6086.4
5971.1
5837.2
5692.2
5536.0
5364.9
5143.6
4849.8
4587.6
4327.2
3661.5
2938.1
2077.1
1071.1
637.8
496.5
405.4
303.1
234.3
184.1
68.8
37.2
18.6
0.0

(END OF REPORT)