

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: P638395

Luminaire Tested: **IFLD-S-SA3A-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638395
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10001.6 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

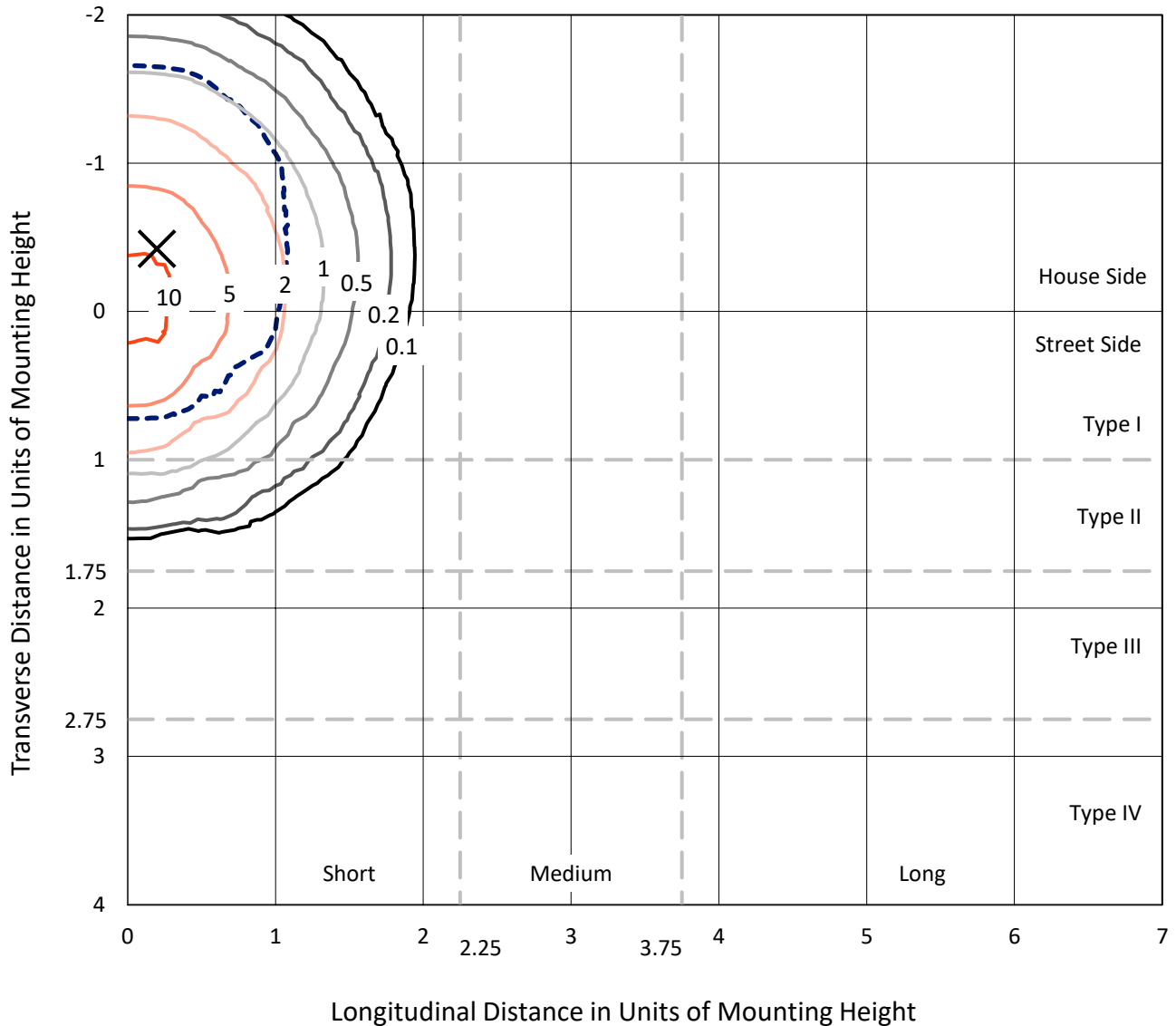
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638395
 CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

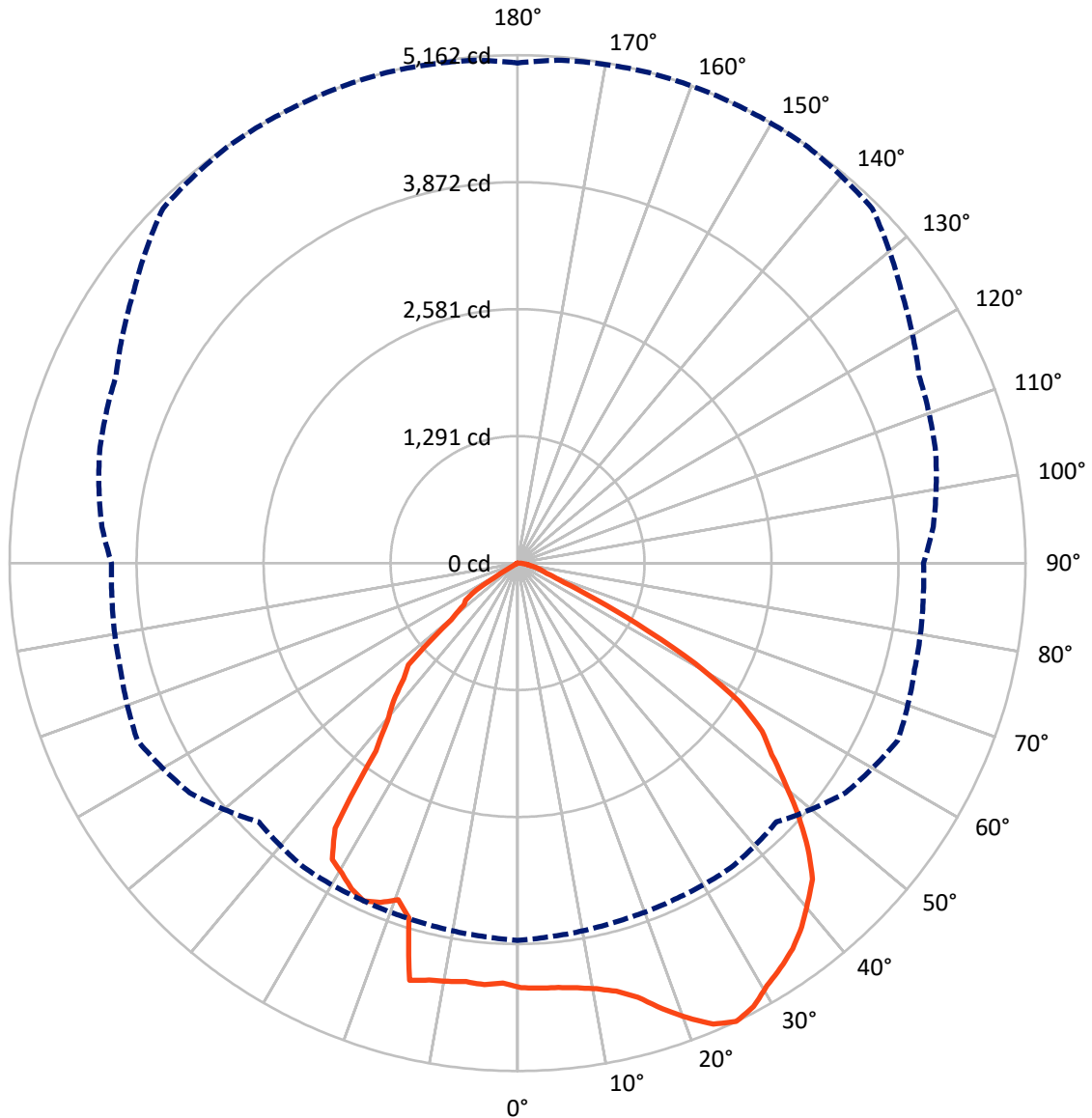
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 fc
 Type I - Short - N/A

REPORT NUMBER: P638395
CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638395
 CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6192.0	0.0	6192.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3809.6	0.0	3809.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	10001.6	0.0	10001.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	414.0	4.1
10°-20°	1264.2	12.6
20°-30°	1998.6	20.0
30°-40°	2257.6	22.6
40°-50°	2114.3	21.1
50°-60°	1457.6	14.6
60°-70°	391.6	3.9
70°-80°	81.6	0.8
80°-90°	22.1	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°	10001.6	100.0
0°-180°	10001.6	100.0



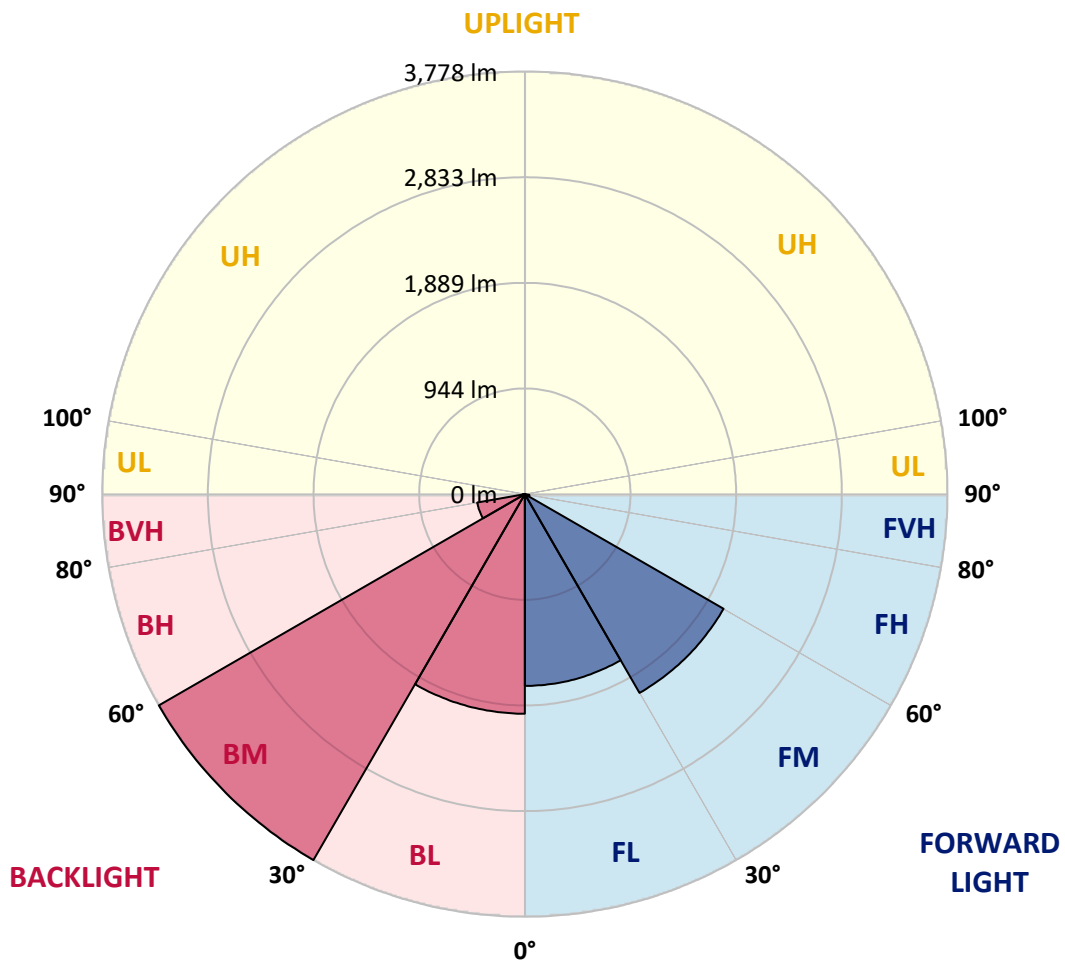
REPORT NUMBER: P638395
 CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1714.0	17.1			
FM (30°-60°)	2051.6	20.5			
FH (60°-80°)	41.1	0.4			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	1962.8	19.6	B3/2500		
BM (30°-60°)	3778.0	37.8	B3/5000		
BH (60°-80°)	432.1	4.3	B1/500		G1/500
BVH (80°-90°)	19.1	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-G1

Type I Short





REPORT NUMBER: P638395
 CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5
2.5°	4334.6	4306.7	4280.2	4271.4	4308.2	4347.9	4322.9	4324.3	4315.5	4331.7
5°	4367.0	4328.7	4311.1	4297.9	4303.8	4344.9	4309.6	4322.9	4308.2	4327.3
7.5°	4355.2	4328.7	4311.1	4286.1	4305.2	4353.7	4319.9	4321.4	4314.0	4331.7
10°	4347.9	4328.7	4306.7	4309.6	4331.7	4372.8	4346.4	4361.1	4350.8	4361.1
12.5°	4365.5	4344.9	4333.2	4333.2	4352.3	4399.3	4386.1	4399.3	4394.9	4403.7
15°	4199.4	4218.5	4330.2	4380.2	4418.4	4465.4	4459.6	4472.8	4475.7	4489.0
17.5°	3542.4	3523.3	3514.4	3771.7	4455.2	4600.7	4596.3	4594.8	4580.1	4569.8
20°	3629.1	3621.7	3611.5	3630.6	3707.0	4671.2	4700.6	4519.8	4466.9	4462.5
22.5°	3767.3	3755.5	3717.3	3718.8	3742.3	4061.2	4555.1	4390.5	4372.8	4362.6
25°	3834.9	3811.4	3780.5	3771.7	3779.0	3720.2	4068.6	4264.1	4177.3	4137.7
27.5°	3715.8	3717.3	3692.3	3715.8	3687.9	3423.3	3274.9	4017.1	4014.2	3996.6
30°	3626.2	3621.7	3592.3	3621.7	3429.2	3133.7	3070.5	3746.7	3715.8	3692.3
32.5°	3351.3	3354.2	3439.5	3554.1	3238.1	3004.4	2813.3	3346.9	3639.4	3626.2
35°	2397.3	2403.2	2706.0	3271.9	2948.5	2747.2	2732.5	2892.7	3518.9	3524.7
37.5°	2307.7	2307.7	2300.3	2392.9	2720.7	2642.8	2672.2	2656.0	3223.4	3238.1
40°	2243.0	2229.8	2219.5	2074.0	1891.7	2569.3	2589.9	2516.4	3047.0	3050.0
42.5°	2165.1	2150.4	2153.3	1884.4	1693.3	2387.1	2329.7	2231.3	2753.1	2756.0
45°	2022.5	2047.5	2065.2	1649.2	1634.5	1705.0	2148.9	2087.2	2554.6	2609.0
47.5°	1028.9	1051.0	1612.4	1516.9	1550.7	1515.4	1815.3	1816.8	2125.4	2306.2
50°	933.4	927.5	929.0	884.9	1431.6	1225.9	1312.6	1665.4	1702.1	1960.8
52.5°	870.2	868.7	779.0	692.3	899.6	1078.9	952.5	1205.3	1265.6	1660.9
55°	643.8	690.8	614.4	651.1	563.0	864.3	859.9	1087.7	1108.3	1331.7
57.5°	5.9	7.3	17.6	495.3	389.5	432.1	593.8	742.3	779.0	1037.7
60°	1.5	2.9	7.3	14.7	252.8	266.0	396.9	429.2	483.6	618.8
62.5°	0.0	0.0	2.9	7.3	13.2	108.8	126.4	138.2	213.1	316.0
65°	0.0	0.0	1.5	4.4	7.3	17.6	30.9	64.7	92.6	114.6
67.5°	0.0	0.0	1.5	2.9	5.9	8.8	17.6	25.0	39.7	67.6
70°	0.0	0.0	1.5	2.9	4.4	7.3	11.8	17.6	23.5	33.8
72.5°	0.0	0.0	1.5	2.9	2.9	8.8	8.8	13.2	17.6	22.0
75°	0.0	0.0	1.5	1.5	2.9	5.9	8.8	10.3	11.8	17.6
77.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.3	11.8	10.3	10.3
80°	0.0	0.0	1.5	4.4	4.4	7.3	8.8	11.8	7.3	7.3
82.5°	0.0	0.0	1.5	5.9	4.4	14.7	14.7	16.2	5.9	5.9
85°	0.0	0.0	4.4	2.9	8.8	14.7	13.2	8.8	7.3	4.4
87.5°	0.0	0.0	1.5	1.5	2.9	4.4	10.3	8.8	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638395

CATALOG NUMBER: IFLD-S-SA3A-735-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4315.5	0°	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5	4315.5
4289.1	2.5°	4347.9	4328.7	4368.4	4364.0	4344.9	4336.1	4325.8	4317.0	4252.3
4292.0	5°	4349.3	4319.9	4368.4	4359.6	4356.7	4342.0	4333.2	4346.4	4287.6
4303.8	7.5°	4349.3	4319.9	4372.8	4375.8	4371.4	4359.6	4358.1	4367.0	4318.5
4324.3	10°	4378.7	4367.0	4411.1	4415.5	4409.6	4406.6	4399.3	4393.4	4342.0
4394.9	12.5°	4440.5	4416.9	4466.9	4480.1	4475.7	4483.1	4465.4	4474.3	4421.3
4466.9	15°	4515.4	4516.9	4555.1	4584.5	4581.6	4605.1	4578.6	4602.1	4563.9
4549.2	17.5°	4630.1	4646.2	4700.6	4744.7	4760.9	4778.5	4760.9	4768.2	4713.8
4458.1	20°	4509.5	4569.8	4831.4	4912.3	4946.1	4962.3	4932.9	4941.7	4887.3
4346.4	22.5°	4400.8	4478.7	4710.9	4963.7	5068.1	5100.4	5090.1	5088.7	5068.1
4125.9	25°	4240.6	4397.8	4502.2	4769.7	5097.5	5156.3	5162.2	5160.7	5129.8
3990.7	27.5°	4043.6	4078.9	4349.3	4512.5	4891.7	5115.1	5106.3	5063.7	5022.5
3709.9	30°	3792.2	3952.5	4074.5	4334.6	4625.7	4988.7	4988.7	4956.4	4913.8
3610.0	32.5°	3664.4	3871.6	3984.8	4078.9	4327.3	4847.6	4906.4	4872.6	4838.8
3532.1	35°	3596.8	3627.6	3892.2	3977.4	4187.6	4575.7	4813.8	4780.0	4755.0
3324.8	37.5°	3448.3	3520.3	3643.8	3871.6	3936.3	4353.7	4690.3	4672.7	4643.3
3055.8	40°	3117.6	3310.1	3499.7	3715.8	3783.4	4068.6	4540.4	4547.8	4508.1
2769.2	42.5°	2922.1	3052.9	3349.8	3495.3	3677.6	3884.8	4394.9	4406.6	4378.7
2623.7	45°	2692.8	2838.3	3047.0	3311.6	3560.0	3632.0	4137.7	4261.1	4237.6
2334.1	47.5°	2482.6	2600.2	2855.9	3123.5	3398.3	3388.0	3842.2	4074.5	4042.1
2112.2	50°	2184.2	2390.0	2510.5	2756.0	3166.1	3194.0	3527.7	3855.4	3829.0
1794.7	52.5°	1841.7	2100.4	2331.2	2556.1	2930.9	2997.1	3235.2	3632.0	3614.4
1371.4	55°	1609.5	1797.6	2057.8	2238.6	2645.8	2822.1	3016.2	3418.9	3410.1
1127.4	57.5°	1145.0	1508.1	1722.7	1975.5	2190.1	2509.1	2653.1	2985.3	2903.0
624.7	60°	776.1	946.6	1208.2	1480.2	1624.2	1943.2	2076.9	2343.0	2320.9
373.3	62.5°	410.1	567.4	754.0	890.7	995.1	1305.2	1361.1	1647.7	1640.4
149.9	65°	180.8	239.6	408.6	479.2	586.5	730.5	779.0	881.9	856.9
73.5	67.5°	94.1	142.6	230.8	283.7	357.2	411.6	451.2	483.6	504.2
48.5	70°	57.3	104.4	142.6	197.0	245.5	289.6	320.4	364.5	391.0
25.0	72.5°	42.6	66.1	98.5	151.4	177.9	229.3	260.2	292.5	316.0
20.6	75°	23.5	44.1	79.4	119.1	142.6	186.7	214.6	236.6	244.0
11.8	77.5°	14.7	33.8	66.1	92.6	111.7	151.4	144.0	164.6	182.3
8.8	80°	10.3	25.0	51.4	76.4	77.9	97.0	114.6	132.3	144.0
5.9	82.5°	7.3	20.6	38.2	58.8	51.4	75.0	89.7	102.9	75.0
4.4	85°	5.9	14.7	19.1	35.3	29.4	52.9	45.6	44.1	29.4
2.9	87.5°	4.4	7.3	13.2	16.2	11.8	11.8	14.7	17.6	14.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4315.5
4208.2
4237.6
4262.6
4299.3
4374.3
4500.7
4666.8
4849.1
5001.9
5082.8
4990.2
4897.6
4810.9
4719.7
4613.9
4499.2
4375.8
4240.6
4065.6
3833.4
3626.2
3420.4
2894.2
2322.4
1641.8
846.6
504.2
392.5
320.4
239.6
185.2
145.5
54.4
29.4
14.7
0.0

(END OF REPORT)