

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: P638366

Luminaire Tested: **IFLD-S-SA3A-730-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638366
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-730-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9234 lumens
Efficiency: N/A
Efficacy: 97.4 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

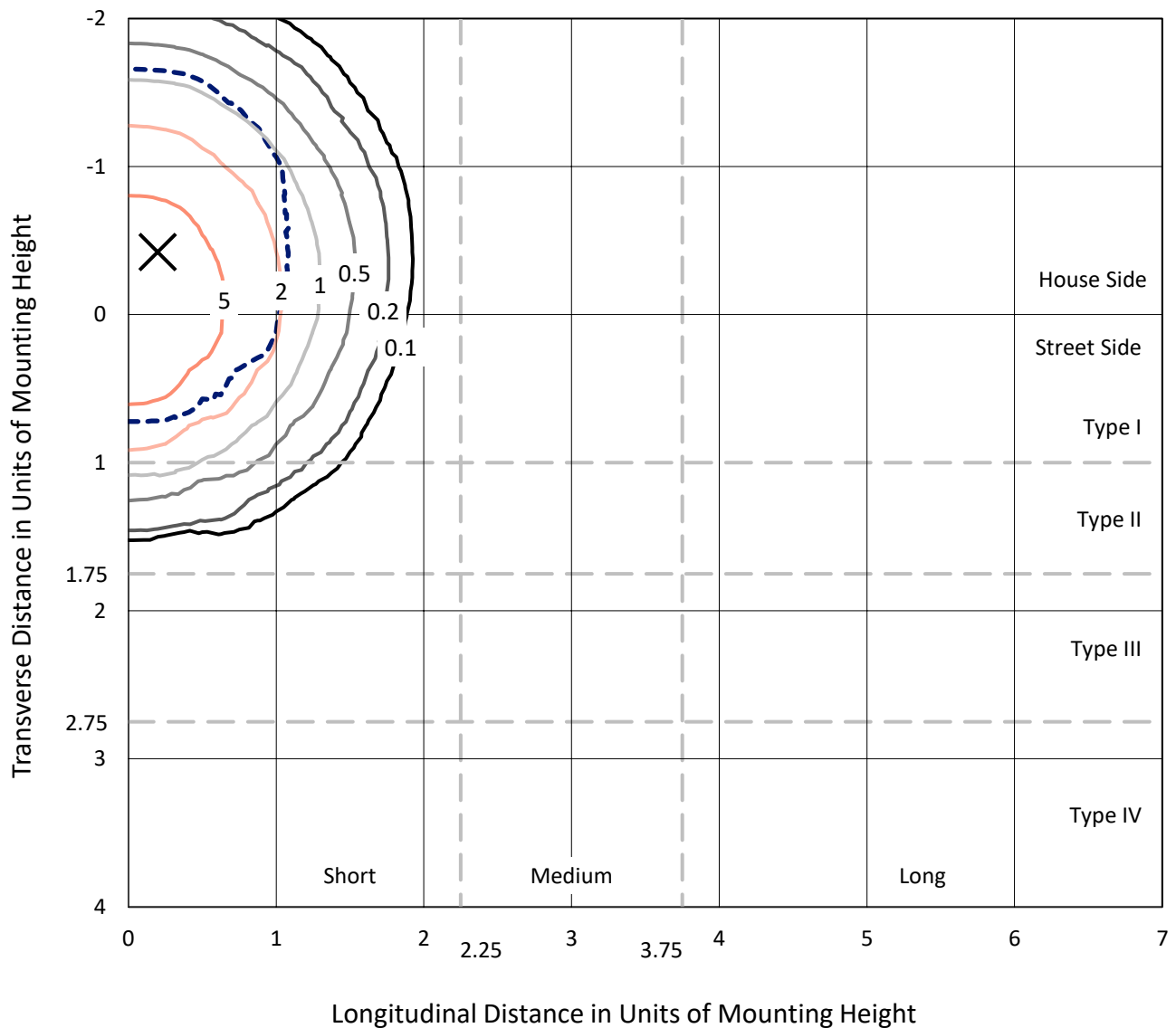
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

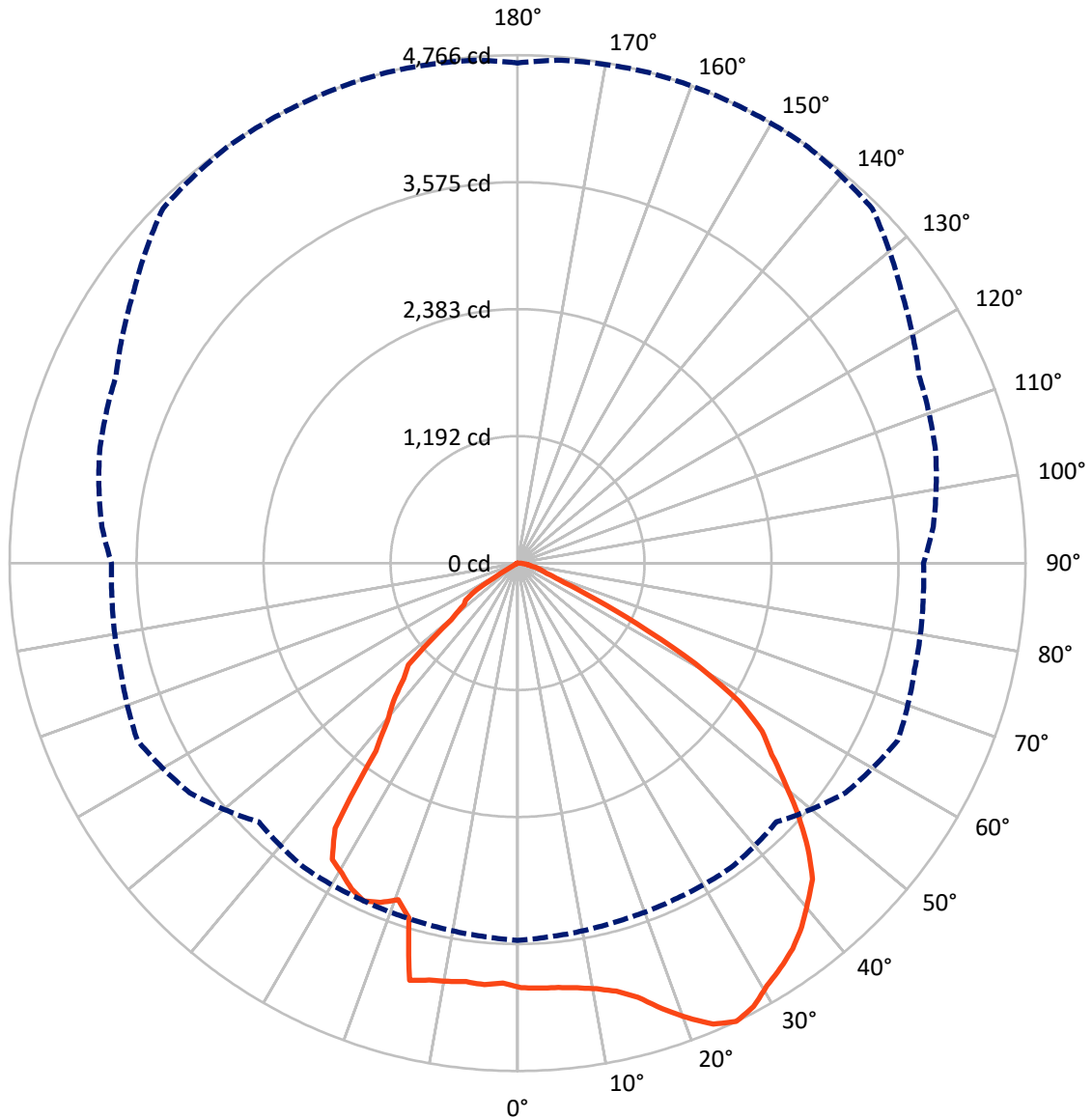
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 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	5716.8	0.0	5716.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3517.2	0.0	3517.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	9234.0	0.0	9234.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	4.1
10°-20°	1167.2	12.6
20°-30°	1845.2	20.0
30°-40°	2084.3	22.6
40°-50°	1952.0	21.1
50°-60°	1345.8	14.6
60°-70°	361.6	3.9
70°-80°	75.4	0.8
80°-90°	20.4	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°	9234.0	100.0
0°-180°	9234.0	100.0



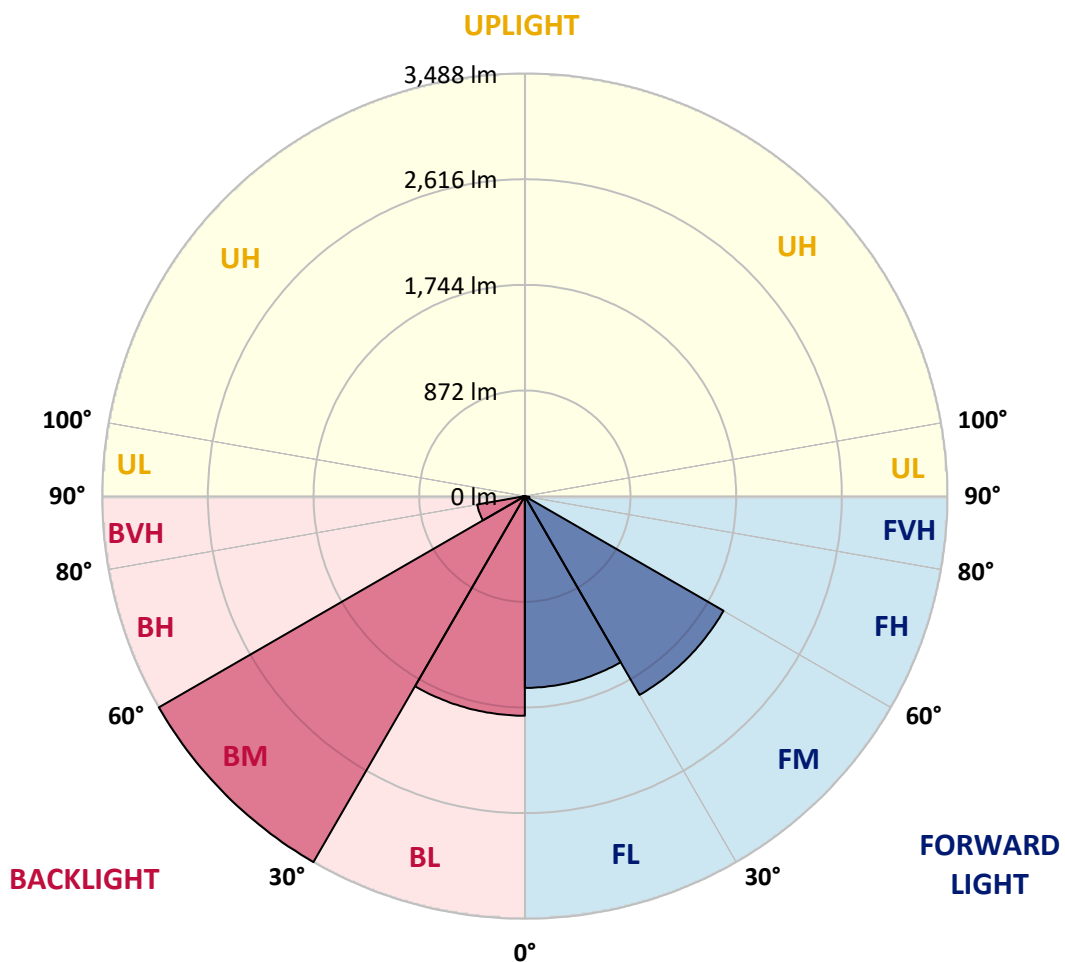
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1582.4	17.1			
FM	(30°-60°)	1894.1	20.5			
FH	(60°-80°)	38.0	0.4			G0/660
FVH	(80°-90°)	2.7	0.0			G0/10
BL	(0°-30°)	1812.2	19.6	B3/2500		
BM	(30°-60°)	3488.0	37.8	B3/5000		
BH	(60°-80°)	399.0	4.3	B1/500		G1/500
BVH	(80°-90°)	17.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3984.3	3984.3	3984.3	3984.3	3984.3	3984.3	3984.3	3984.3	3984.3	3984.3
2.5°	4001.9	3976.2	3951.7	3943.6	3977.5	4014.1	3991.1	3992.4	3984.3	3999.2
5°	4031.8	3996.5	3980.2	3968.0	3973.4	4011.4	3978.9	3991.1	3977.5	3995.2
7.5°	4020.9	3996.5	3980.2	3957.2	3974.8	4019.6	3988.4	3989.7	3982.9	3999.2
10°	4014.1	3996.5	3976.2	3978.9	3999.2	4037.2	4012.8	4026.4	4016.9	4026.4
12.5°	4030.4	4011.4	4000.6	4000.6	4018.2	4061.6	4049.4	4061.6	4057.6	4065.7
15°	3877.1	3894.7	3997.9	4044.0	4079.3	4122.7	4117.3	4129.5	4132.2	4144.4
17.5°	3270.5	3252.8	3244.7	3482.2	4113.2	4247.6	4243.5	4242.1	4228.6	4219.1
20°	3350.6	3343.8	3334.3	3351.9	3422.5	4312.7	4339.8	4172.9	4124.1	4120.0
22.5°	3478.1	3467.3	3432.0	3433.3	3455.0	3749.5	4205.5	4053.5	4037.2	4027.7
25°	3540.5	3518.8	3490.3	3482.2	3489.0	3434.7	3756.3	3936.8	3856.7	3820.1
27.5°	3430.6	3432.0	3408.9	3430.6	3404.8	3160.6	3023.5	3708.8	3706.1	3689.8
30°	3347.8	3343.8	3316.6	3343.8	3166.0	2893.2	2834.9	3459.1	3430.6	3408.9
32.5°	3094.1	3096.8	3175.5	3281.3	2989.6	2773.8	2597.4	3090.0	3360.1	3347.8
35°	2213.3	2218.8	2498.3	3020.8	2722.2	2536.3	2522.8	2670.7	3248.8	3254.2
37.5°	2130.6	2130.6	2123.8	2209.3	2511.9	2440.0	2467.1	2452.2	2976.0	2989.6
40°	2070.9	2058.6	2049.1	1914.8	1746.5	2372.1	2391.1	2323.3	2813.2	2815.9
42.5°	1998.9	1985.4	1988.1	1739.7	1563.3	2203.8	2150.9	2060.0	2541.8	2544.5
45°	1867.3	1890.4	1906.7	1522.6	1509.0	1574.2	1984.0	1927.0	2358.6	2408.8
47.5°	949.9	970.3	1488.7	1400.5	1431.7	1399.1	1676.0	1677.3	1962.3	2129.2
50°	861.7	856.3	857.7	816.9	1321.8	1131.8	1211.8	1537.5	1571.5	1810.3
52.5°	803.4	802.0	719.2	639.2	830.5	996.1	879.4	1112.8	1168.4	1533.5
55°	594.4	637.8	567.2	601.2	519.7	797.9	793.9	1004.2	1023.2	1229.5
57.5°	5.4	6.8	16.3	457.3	359.6	399.0	548.2	685.3	719.2	958.1
60°	1.4	2.7	6.8	13.6	233.4	245.6	366.4	396.3	446.5	571.3
62.5°	0.0	0.0	2.7	6.8	12.2	100.4	116.7	127.6	196.8	291.8
65°	0.0	0.0	1.4	4.1	6.8	16.3	28.5	59.7	85.5	105.8
67.5°	0.0	0.0	1.4	2.7	5.4	8.1	16.3	23.1	36.6	62.4
70°	0.0	0.0	1.4	2.7	4.1	6.8	10.9	16.3	21.7	31.2
72.5°	0.0	0.0	1.4	2.7	2.7	8.1	8.1	12.2	16.3	20.4
75°	0.0	0.0	1.4	1.4	2.7	5.4	8.1	9.5	10.9	16.3
77.5°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	10.9	9.5	9.5
80°	0.0	0.0	1.4	4.1	4.1	6.8	8.1	10.9	6.8	6.8
82.5°	0.0	0.0	1.4	5.4	4.1	13.6	13.6	14.9	5.4	5.4
85°	0.0	0.0	4.1	2.7	8.1	13.6	12.2	8.1	6.8	4.1
87.5°	0.0	0.0	1.4	1.4	2.7	4.1	9.5	8.1	2.7	2.7
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°
3984.3	0°	3984.3	3984.3	3984.3	3984.3	3984.3	3984.3	3984.3	3984.3	3984.3
3959.9	2.5°	4014.1	3996.5	4033.1	4029.1	4011.4	4003.3	3993.8	3985.7	3925.9
3962.6	5°	4015.5	3988.4	4033.1	4025.0	4022.3	4008.7	4000.6	4012.8	3958.5
3973.4	7.5°	4015.5	3988.4	4037.2	4039.9	4035.9	4025.0	4023.6	4031.8	3987.0
3992.4	10°	4042.6	4031.8	4072.5	4076.6	4071.1	4068.4	4061.6	4056.2	4008.7
4057.6	12.5°	4099.6	4077.9	4124.1	4136.3	4132.2	4139.0	4122.7	4130.9	4082.0
4124.1	15°	4168.9	4170.2	4205.5	4232.6	4229.9	4251.6	4227.2	4248.9	4213.6
4200.1	17.5°	4274.7	4289.6	4339.8	4380.6	4395.5	4411.8	4395.5	4402.3	4352.1
4115.9	20°	4163.4	4219.1	4460.6	4535.3	4566.5	4581.4	4554.3	4562.4	4512.2
4012.8	22.5°	4063.0	4134.9	4349.3	4582.8	4679.1	4709.0	4699.5	4698.1	4679.1
3809.2	25°	3915.1	4060.3	4156.6	4403.6	4706.2	4760.5	4766.0	4764.6	4736.1
3684.4	27.5°	3733.2	3765.8	4015.5	4166.1	4516.3	4722.5	4714.4	4675.0	4637.0
3425.2	30°	3501.2	3649.1	3761.7	4001.9	4270.6	4605.8	4605.8	4576.0	4536.6
3332.9	32.5°	3383.1	3574.5	3679.0	3765.8	3995.2	4475.5	4529.8	4498.6	4467.4
3261.0	35°	3320.7	3349.2	3593.5	3672.2	3866.2	4224.5	4444.3	4413.1	4390.1
3069.6	37.5°	3183.6	3250.1	3364.1	3574.5	3634.2	4019.6	4330.3	4314.1	4286.9
2821.3	40°	2878.3	3056.1	3231.1	3430.6	3493.0	3756.3	4191.9	4198.7	4162.1
2556.7	42.5°	2697.8	2818.6	3092.7	3227.1	3395.3	3586.7	4057.6	4068.4	4042.6
2422.3	45°	2486.1	2620.5	2813.2	3057.4	3286.8	3353.3	3820.1	3934.1	3912.4
2155.0	47.5°	2292.1	2400.6	2636.7	2883.7	3137.5	3128.0	3547.3	3761.7	3731.9
1950.1	50°	2016.6	2206.6	2317.8	2544.5	2923.1	2948.9	3256.9	3559.5	3535.1
1657.0	52.5°	1700.4	1939.2	2152.3	2359.9	2706.0	2767.0	2986.9	3353.3	3337.0
1266.1	55°	1486.0	1659.7	1899.9	2066.8	2442.7	2605.5	2784.7	3156.5	3148.4
1040.9	57.5°	1057.1	1392.3	1590.5	1823.9	2022.0	2316.5	2449.5	2756.2	2680.2
576.7	60°	716.5	873.9	1115.5	1366.5	1499.5	1794.0	1917.5	2163.1	2142.8
344.7	62.5°	378.6	523.8	696.2	822.4	918.7	1205.1	1256.6	1521.3	1514.5
138.4	65°	166.9	221.2	377.3	442.4	541.5	674.5	719.2	814.2	791.2
67.9	67.5°	86.9	131.6	213.1	261.9	329.8	380.0	416.6	446.5	465.5
44.8	70°	52.9	96.4	131.6	181.8	226.6	267.3	295.8	336.5	361.0
23.1	72.5°	39.4	61.1	90.9	139.8	164.2	211.7	240.2	270.1	291.8
19.0	75°	21.7	40.7	73.3	109.9	131.6	172.3	198.1	218.5	225.3
10.9	77.5°	13.6	31.2	61.1	85.5	103.1	139.8	133.0	152.0	168.3
8.1	80°	9.5	23.1	47.5	70.6	71.9	89.6	105.8	122.1	133.0
5.4	82.5°	6.8	19.0	35.3	54.3	47.5	69.2	82.8	95.0	69.2
4.1	85°	5.4	13.6	17.6	32.6	27.1	48.9	42.1	40.7	27.1
2.7	87.5°	4.1	6.8	12.2	14.9	10.9	10.9	13.6	16.3	13.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3984.3
3885.2
3912.4
3935.4
3969.4
4038.6
4155.3
4308.6
4476.9
4618.0
4692.7
4607.2
4521.7
4441.6
4357.5
4259.8
4153.9
4039.9
3915.1
3753.6
3539.2
3347.8
3157.9
2672.0
2144.1
1515.8
781.7
465.5
362.3
295.8
221.2
171.0
134.3
50.2
27.1
13.6
0.0

(END OF REPORT)