

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: P638421

Luminaire Tested: **IFLD-S-SA2C-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638421
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10475.8 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

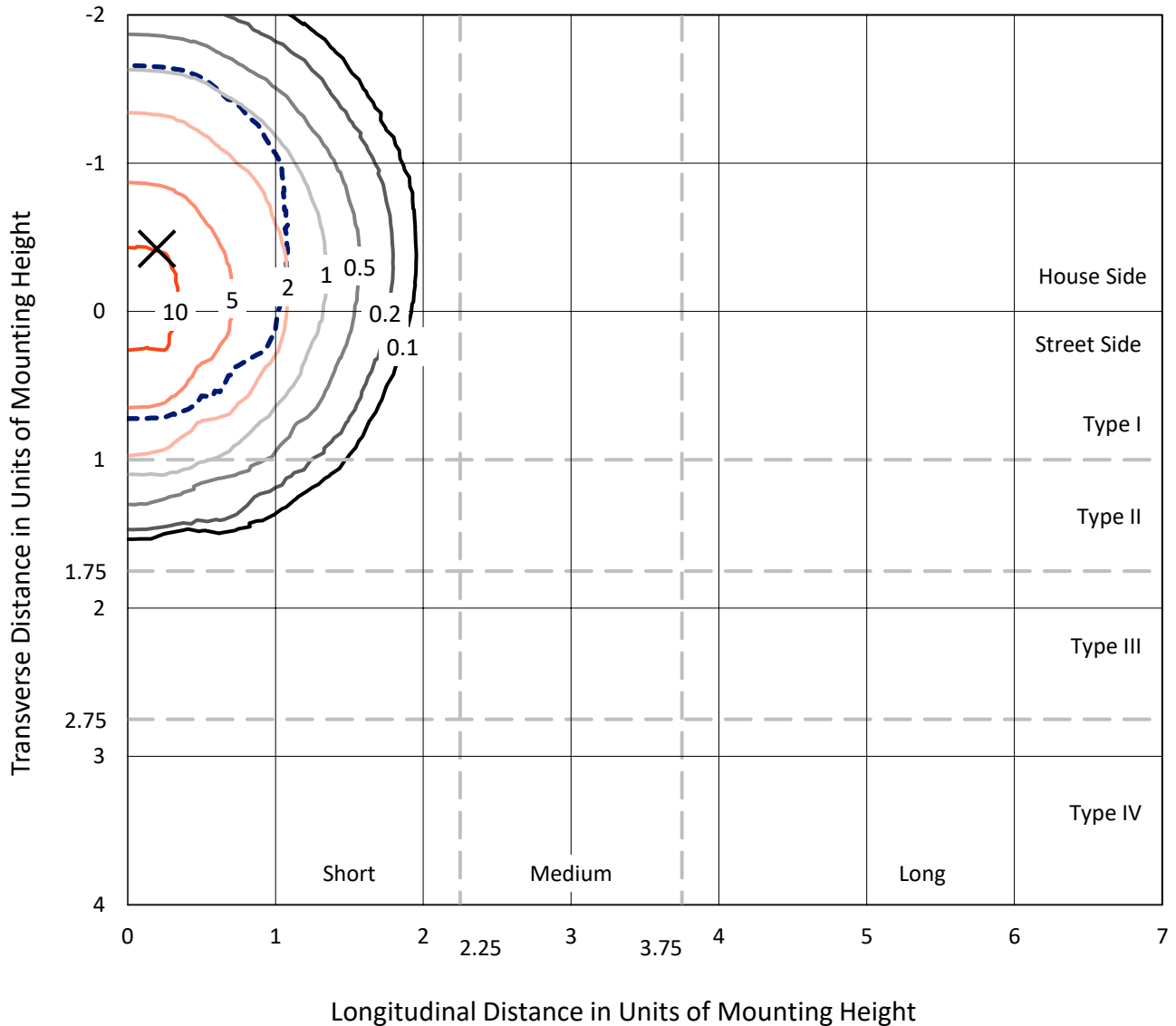
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

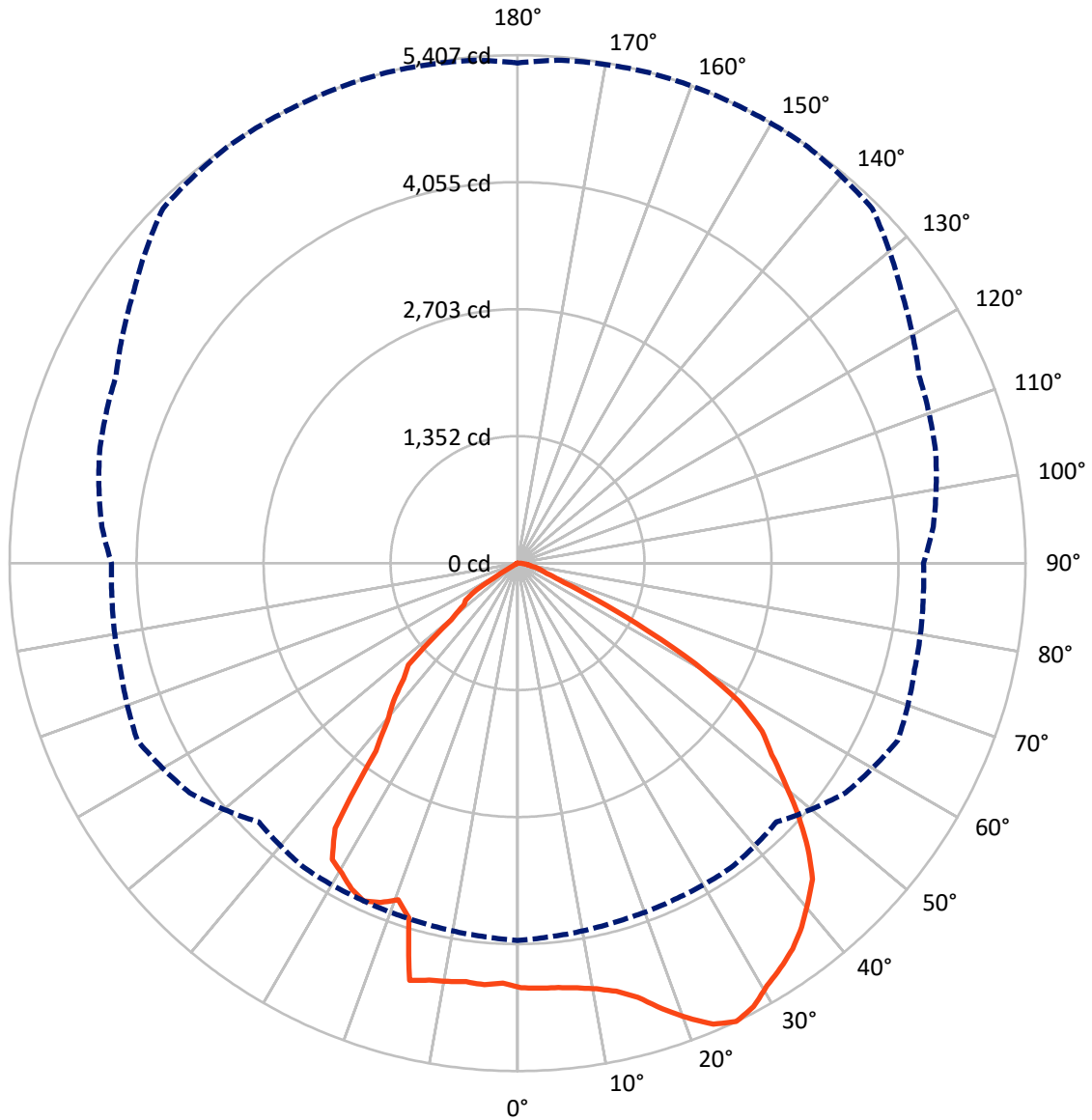
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.3 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	6485.6	0.0	6485.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3990.2	0.0	3990.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	10475.8	0.0	10475.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.6	4.1
10°-20°	1324.1	12.6
20°-30°	2093.4	20.0
30°-40°	2364.6	22.6
40°-50°	2214.5	21.1
50°-60°	1526.8	14.6
60°-70°	410.2	3.9
70°-80°	85.5	0.8
80°-90°	23.1	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°	10475.8	100.0
0°-180°	10475.8	100.0



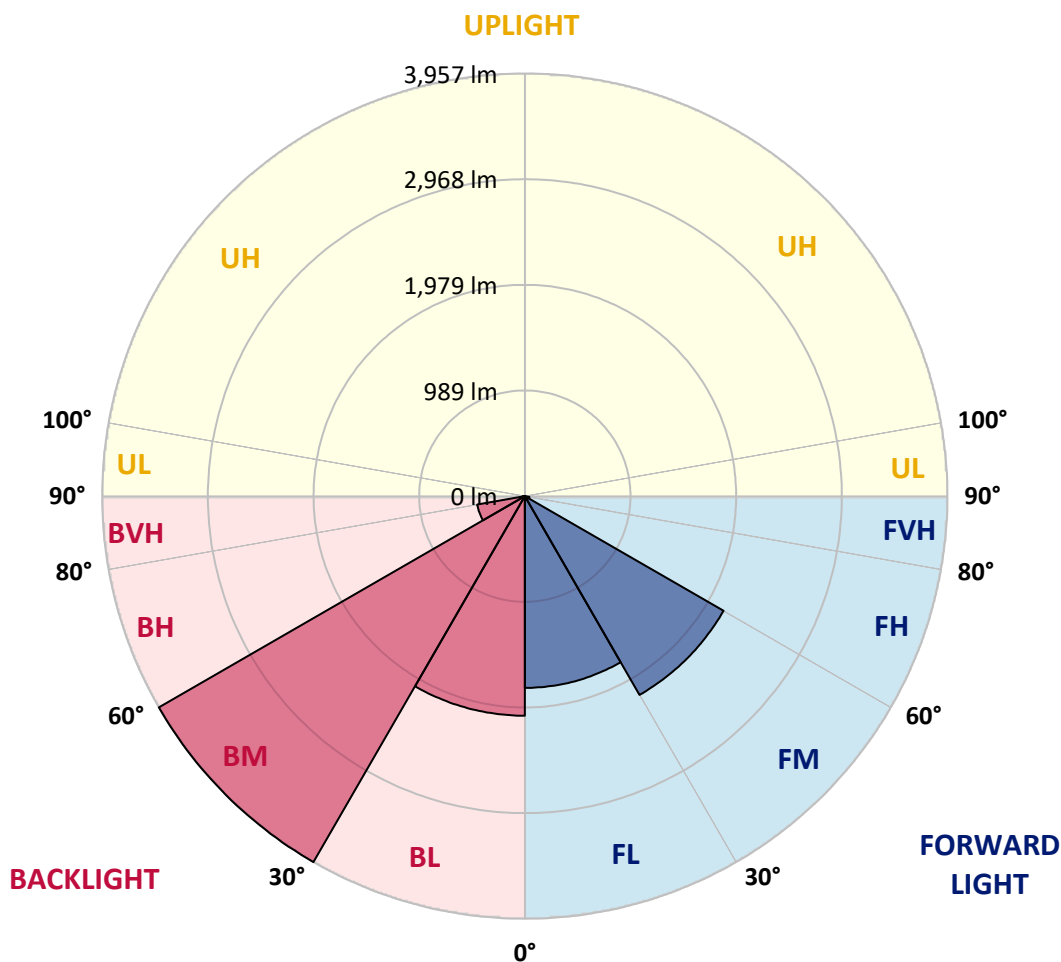
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1795.2	17.1			
FM (30°-60°)	2148.8	20.5			
FH (60°-80°)	43.1	0.4			G0/660
FVH (80°-90°)	3.1	0.0			G0/10
BL (0°-30°)	2055.9	19.6	B3/2500		
BM (30°-60°)	3957.1	37.8	B3/5000		
BH (60°-80°)	452.6	4.3	B1/500		G1/500
BVH (80°-90°)	20.0	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°	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1
2.5°	4540.1	4510.9	4483.2	4473.9	4512.4	4554.0	4527.8	4529.4	4520.1	4537.1
5°	4574.0	4534.0	4515.5	4501.6	4507.8	4550.9	4514.0	4527.8	4512.4	4532.4
7.5°	4561.7	4534.0	4515.5	4489.3	4509.3	4560.1	4524.7	4526.3	4518.6	4537.1
10°	4554.0	4534.0	4510.9	4514.0	4537.1	4580.2	4552.5	4567.8	4557.1	4567.8
12.5°	4572.5	4550.9	4538.6	4538.6	4558.6	4607.9	4594.0	4607.9	4603.3	4612.5
15°	4398.5	4418.5	4535.5	4587.9	4627.9	4677.2	4671.0	4684.9	4687.9	4701.8
17.5°	3710.3	3690.3	3681.1	3950.5	4666.4	4818.8	4814.2	4812.6	4797.2	4786.5
20°	3801.1	3793.5	3782.7	3802.7	3882.7	4892.7	4923.5	4734.1	4678.7	4674.1
22.5°	3945.9	3933.6	3893.5	3895.1	3919.7	4253.8	4771.1	4598.6	4580.2	4569.4
25°	4016.7	3992.1	3959.7	3950.5	3958.2	3896.6	4261.5	4466.2	4375.4	4333.8
27.5°	3892.0	3893.5	3867.4	3892.0	3862.7	3585.6	3430.1	4207.6	4204.5	4186.0
30°	3798.1	3793.5	3762.7	3793.5	3591.8	3282.3	3216.1	3924.3	3892.0	3867.4
32.5°	3510.2	3513.3	3602.5	3722.6	3391.6	3146.8	2946.7	3505.6	3811.9	3798.1
35°	2511.0	2517.2	2834.3	3427.0	3088.3	2877.4	2862.0	3029.8	3685.7	3691.8
37.5°	2417.1	2417.1	2409.4	2506.4	2849.7	2768.1	2798.9	2782.0	3376.2	3391.6
40°	2349.4	2335.5	2324.7	2172.3	1981.4	2691.1	2712.7	2635.7	3191.5	3194.6
42.5°	2267.8	2252.4	2255.4	1973.7	1773.6	2500.2	2440.2	2337.0	2883.6	2886.7
45°	2118.4	2144.6	2163.1	1727.4	1712.0	1785.9	2250.8	2186.2	2675.7	2732.7
47.5°	1077.7	1100.8	1688.9	1588.8	1624.2	1587.3	1901.3	1902.9	2226.2	2415.6
50°	977.6	971.5	973.0	926.8	1499.5	1284.0	1374.8	1744.3	1782.8	2053.8
52.5°	911.4	909.9	816.0	725.1	942.2	1130.0	997.6	1262.4	1325.6	1739.7
55°	674.3	723.6	643.5	682.0	589.6	905.3	900.6	1139.3	1160.8	1394.8
57.5°	6.2	7.7	18.5	518.8	408.0	452.6	622.0	777.5	816.0	1086.9
60°	1.5	3.1	7.7	15.4	264.8	278.7	415.7	449.5	506.5	648.2
62.5°	0.0	0.0	3.1	7.7	13.9	113.9	132.4	144.7	223.2	331.0
65°	0.0	0.0	1.5	4.6	7.7	18.5	32.3	67.7	97.0	120.1
67.5°	0.0	0.0	1.5	3.1	6.2	9.2	18.5	26.2	41.6	70.8
70°	0.0	0.0	1.5	3.1	4.6	7.7	12.3	18.5	24.6	35.4
72.5°	0.0	0.0	1.5	3.1	3.1	9.2	9.2	13.9	18.5	23.1
75°	0.0	0.0	1.5	1.5	3.1	6.2	9.2	10.8	12.3	18.5
77.5°	0.0	0.0	1.5	3.1	4.6	6.2	7.7	12.3	10.8	10.8
80°	0.0	0.0	1.5	4.6	4.6	7.7	9.2	12.3	7.7	7.7
82.5°	0.0	0.0	1.5	6.2	4.6	15.4	15.4	16.9	6.2	6.2
85°	0.0	0.0	4.6	3.1	9.2	15.4	13.9	9.2	7.7	4.6
87.5°	0.0	0.0	1.5	1.5	3.1	4.6	10.8	9.2	3.1	3.1
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°
4520.1	0°	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1	4520.1
4492.4	2.5°	4554.0	4534.0	4575.5	4570.9	4550.9	4541.7	4530.9	4521.7	4453.9
4495.5	5°	4555.5	4524.7	4575.5	4566.3	4563.2	4547.8	4538.6	4552.5	4490.9
4507.8	7.5°	4555.5	4524.7	4580.2	4583.2	4578.6	4566.3	4564.8	4574.0	4523.2
4529.4	10°	4586.3	4574.0	4620.2	4624.8	4618.7	4615.6	4607.9	4601.7	4547.8
4603.3	12.5°	4651.0	4626.3	4678.7	4692.5	4687.9	4695.6	4677.2	4686.4	4631.0
4678.7	15°	4729.5	4731.0	4771.1	4801.9	4798.8	4823.4	4795.7	4820.3	4780.3
4764.9	17.5°	4849.6	4866.5	4923.5	4969.7	4986.6	5005.1	4986.6	4994.3	4937.3
4669.5	20°	4723.3	4786.5	5060.5	5145.2	5180.6	5197.5	5166.7	5176.0	5119.0
4552.5	22.5°	4609.4	4691.0	4934.3	5199.1	5308.4	5342.2	5331.5	5329.9	5308.4
4321.5	25°	4441.6	4606.3	4715.6	4995.8	5339.2	5400.7	5406.9	5405.4	5373.0
4179.9	27.5°	4235.3	4272.3	4555.5	4726.4	5123.6	5357.6	5348.4	5303.8	5260.6
3885.8	30°	3972.0	4139.9	4267.6	4540.1	4845.0	5225.2	5225.2	5191.4	5146.7
3781.1	32.5°	3838.1	4055.2	4173.7	4272.3	4532.4	5077.4	5139.0	5103.6	5068.2
3699.5	35°	3767.3	3799.6	4076.7	4166.0	4386.2	4792.6	5042.0	5006.6	4980.4
3482.5	37.5°	3611.8	3687.2	3816.5	4055.2	4122.9	4560.1	4912.7	4894.2	4863.4
3200.7	40°	3265.4	3467.1	3665.7	3892.0	3962.8	4261.5	4755.7	4763.4	4721.8
2900.5	42.5°	3060.6	3197.6	3508.6	3661.1	3852.0	4069.0	4603.3	4615.6	4586.3
2748.1	45°	2820.5	2972.9	3191.5	3468.6	3728.8	3804.2	4333.8	4463.2	4438.5
2444.8	47.5°	2600.3	2723.5	2991.3	3271.5	3559.4	3548.7	4024.4	4267.6	4233.8
2212.3	50°	2287.8	2503.3	2629.6	2886.7	3316.2	3345.4	3694.9	4038.2	4010.5
1879.8	52.5°	1929.1	2200.0	2441.7	2677.3	3069.9	3139.1	3388.6	3804.2	3785.8
1436.4	55°	1685.8	1882.9	2155.4	2344.7	2771.2	2955.9	3159.2	3581.0	3571.8
1180.8	57.5°	1199.3	1579.6	1804.4	2069.2	2293.9	2628.0	2778.9	3126.8	3040.6
654.3	60°	812.9	991.5	1265.5	1550.3	1701.2	2035.3	2175.4	2454.0	2430.9
391.0	62.5°	429.5	594.3	789.8	933.0	1042.3	1367.1	1425.6	1725.8	1718.1
157.0	65°	189.4	250.9	428.0	501.9	614.3	765.2	816.0	923.7	897.6
77.0	67.5°	98.5	149.3	241.7	297.1	374.1	431.1	472.6	506.5	528.1
50.8	70°	60.0	109.3	149.3	206.3	257.1	303.3	335.6	381.8	409.5
26.2	72.5°	44.6	69.3	103.1	158.6	186.3	240.2	272.5	306.4	331.0
21.6	75°	24.6	46.2	83.1	124.7	149.3	195.5	224.8	247.9	255.6
12.3	77.5°	15.4	35.4	69.3	97.0	117.0	158.6	150.9	172.4	190.9
9.2	80°	10.8	26.2	53.9	80.1	81.6	101.6	120.1	138.6	150.9
6.2	82.5°	7.7	21.6	40.0	61.6	53.9	78.5	93.9	107.8	78.5
4.6	85°	6.2	15.4	20.0	36.9	30.8	55.4	47.7	46.2	30.8
3.1	87.5°	4.6	7.7	13.9	16.9	12.3	12.3	15.4	18.5	15.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4520.1
4407.7
4438.5
4464.7
4503.2
4581.7
4714.1
4888.1
5079.0
5239.1
5323.8
5226.8
5129.8
5038.9
4943.5
4832.6
4712.6
4583.2
4441.6
4258.4
4015.1
3798.1
3582.5
3031.4
2432.5
1719.7
886.8
528.1
411.1
335.6
250.9
194.0
152.4
57.0
30.8
15.4
0.0

(END OF REPORT)