

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: P636946

Luminaire Tested: **IFLD-S-SA3B-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636946
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9062.4 lumens
Efficiency: N/A
Efficacy: 74.0 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

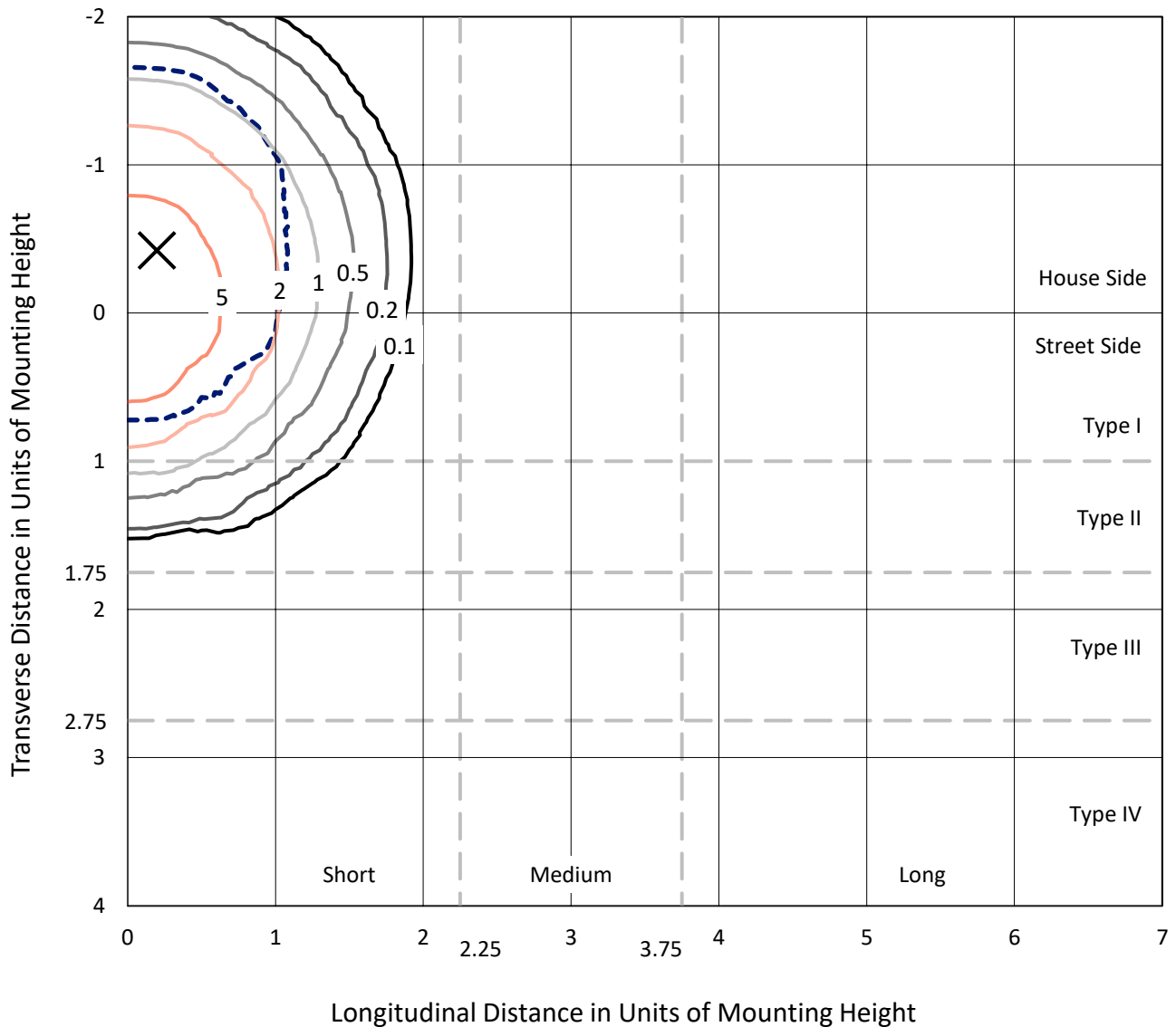
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

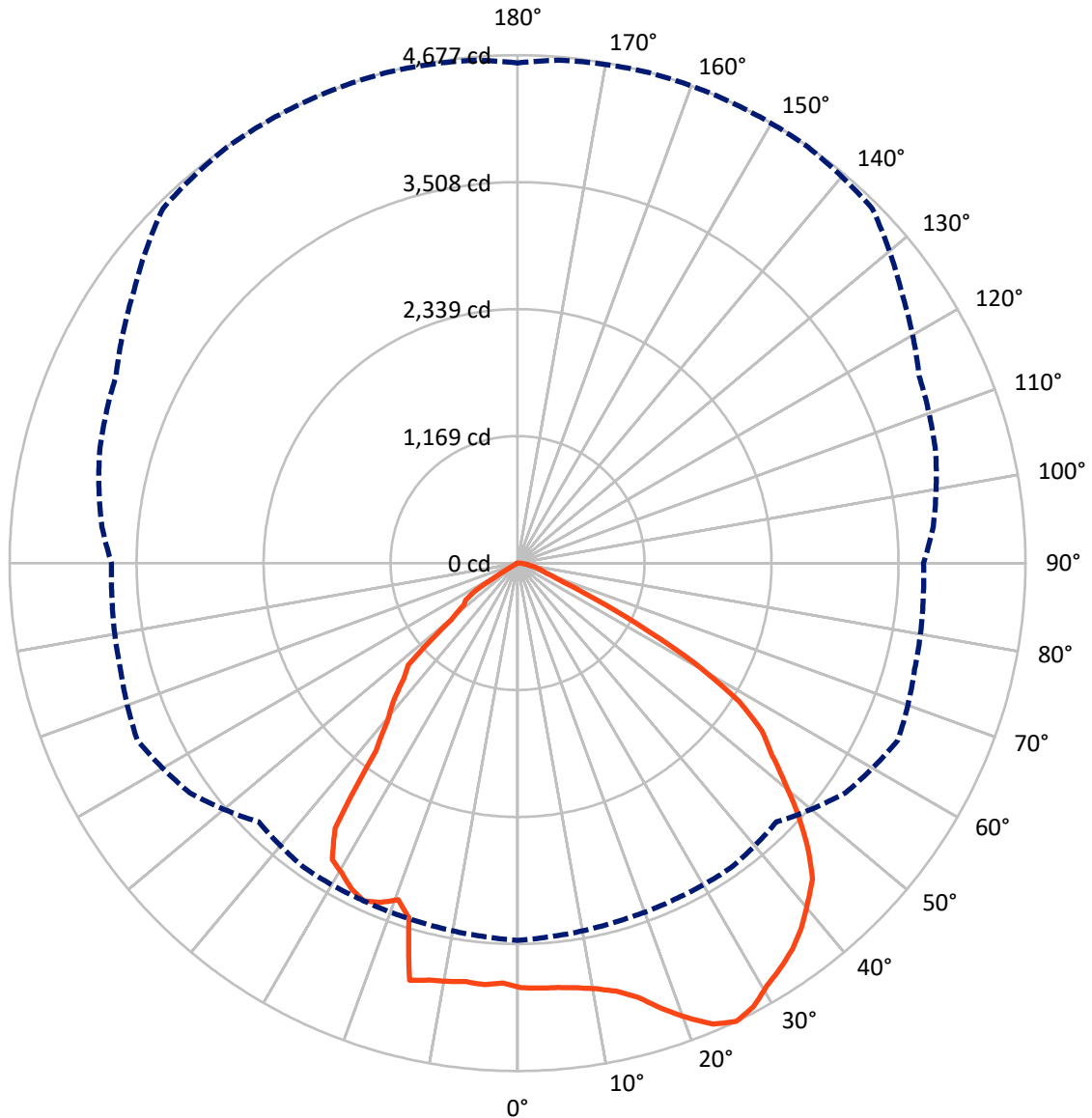
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 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	5610.5	0.0	5610.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3451.8	0.0	3451.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	9062.4	0.0	9062.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	375.1	4.1
10°-20°	1145.5	12.6
20°-30°	1810.9	20.0
30°-40°	2045.6	22.6
40°-50°	1915.7	21.1
50°-60°	1320.8	14.6
60°-70°	354.8	3.9
70°-80°	73.9	0.8
80°-90°	20.0	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°	9062.4	100.0
0°-180°	9062.4	100.0



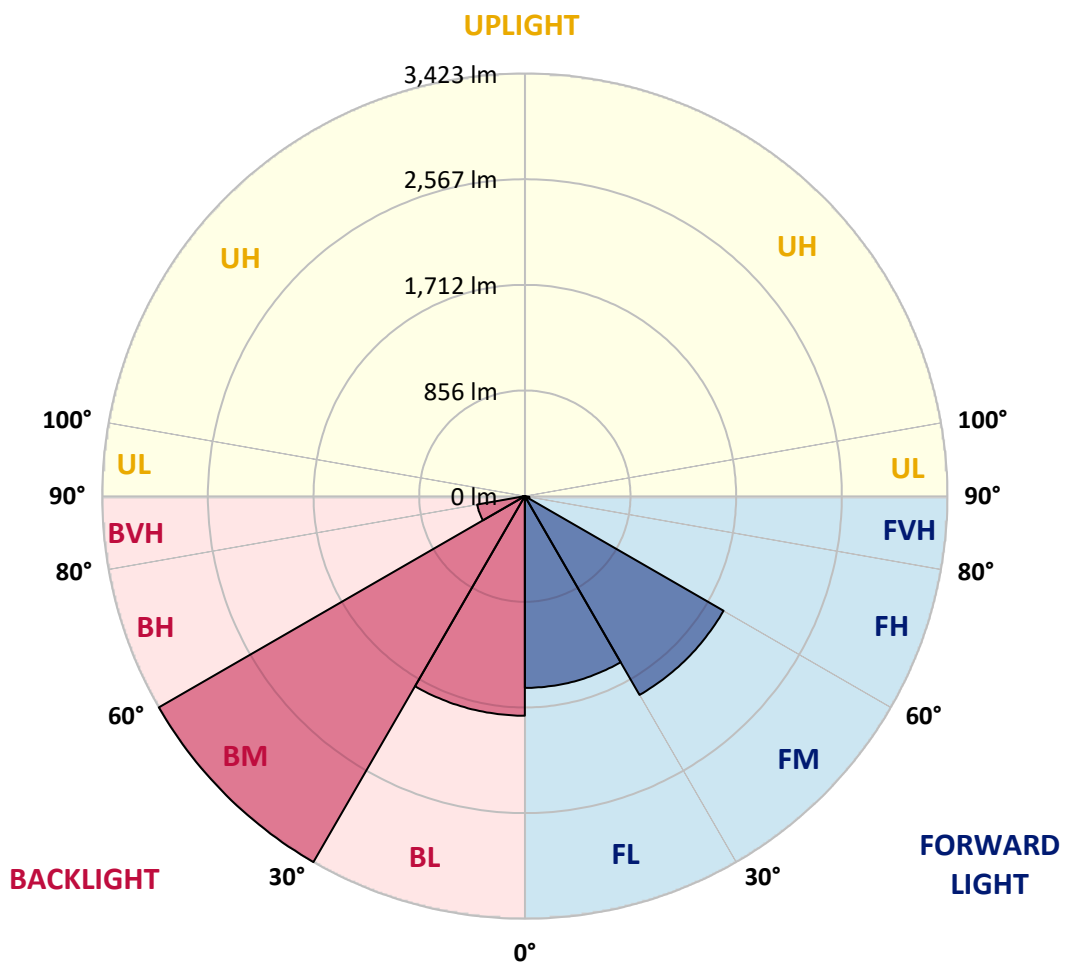
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1553.0	17.1			
FM (30°-60°)	1858.9	20.5			
FH (60°-80°)	37.3	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	1778.5	19.6	B3/2500		
BM (30°-60°)	3423.2	37.8	B3/5000		
BH (60°-80°)	391.5	4.3	B1/500		G1/500
BVH (80°-90°)	17.3	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°	3910.2	3910.2	3910.2	3910.2	3910.2	3910.2	3910.2	3910.2	3910.2	3910.2
2.5°	3927.6	3902.3	3878.3	3870.3	3903.6	3939.5	3916.9	3918.2	3910.2	3924.9
5°	3956.9	3922.2	3906.2	3894.3	3899.6	3936.9	3904.9	3916.9	3903.6	3920.9
7.5°	3946.2	3922.2	3906.2	3883.6	3900.9	3944.9	3914.2	3915.6	3908.9	3924.9
10°	3939.5	3922.2	3902.3	3904.9	3924.9	3962.2	3938.2	3951.5	3942.2	3951.5
12.5°	3955.5	3936.9	3926.2	3926.2	3943.5	3986.2	3974.2	3986.2	3982.2	3990.2
15°	3805.0	3822.3	3923.6	3968.8	4003.5	4046.1	4040.8	4052.7	4055.4	4067.4
17.5°	3209.7	3192.4	3184.4	3417.5	4036.8	4168.6	4164.6	4163.3	4150.0	4140.7
20°	3288.3	3281.6	3272.3	3289.6	3358.9	4232.5	4259.2	4095.4	4047.4	4043.4
22.5°	3413.5	3402.8	3368.2	3369.5	3390.8	3679.8	4127.3	3978.2	3962.2	3952.9
25°	3474.7	3453.4	3425.5	3417.5	3424.1	3370.9	3686.5	3863.6	3785.1	3749.1
27.5°	3366.9	3368.2	3345.5	3366.9	3341.6	3101.8	2967.3	3639.9	3637.2	3621.2
30°	3285.6	3281.6	3255.0	3281.6	3107.2	2839.5	2782.2	3394.8	3366.9	3345.5
32.5°	3036.6	3039.2	3116.5	3220.4	2934.0	2722.3	2549.1	3032.6	3297.6	3285.6
35°	2172.2	2177.5	2451.9	2964.6	2671.6	2489.2	2475.9	2621.0	3188.4	3193.7
37.5°	2091.0	2091.0	2084.3	2168.2	2465.2	2394.6	2421.3	2406.6	2920.7	2934.0
40°	2032.4	2020.4	2011.1	1879.2	1714.1	2328.0	2346.7	2280.1	2760.9	2763.5
42.5°	1961.8	1948.5	1951.1	1707.4	1534.3	2162.9	2110.9	2021.7	2494.5	2497.2
45°	1832.6	1855.2	1871.2	1494.3	1481.0	1544.9	1947.1	1891.2	2314.7	2364.0
47.5°	932.3	952.3	1461.0	1374.4	1405.1	1373.1	1644.8	1646.1	1925.8	2089.6
50°	845.7	840.4	841.7	801.8	1297.2	1110.7	1189.3	1509.0	1542.3	1776.7
52.5°	788.4	787.1	705.9	627.3	815.1	977.6	863.0	1092.1	1146.7	1505.0
55°	583.3	626.0	556.7	590.0	510.1	783.1	779.1	985.6	1004.2	1206.6
57.5°	5.3	6.7	16.0	448.8	352.9	391.6	538.1	672.6	705.9	940.3
60°	1.3	2.7	6.7	13.3	229.1	241.1	359.6	388.9	438.2	560.7
62.5°	0.0	0.0	2.7	6.7	12.0	98.6	114.5	125.2	193.1	286.3
65°	0.0	0.0	1.3	4.0	6.7	16.0	28.0	58.6	83.9	103.9
67.5°	0.0	0.0	1.3	2.7	5.3	8.0	16.0	22.6	36.0	61.3
70°	0.0	0.0	1.3	2.7	4.0	6.7	10.7	16.0	21.3	30.6
72.5°	0.0	0.0	1.3	2.7	2.7	8.0	8.0	12.0	16.0	20.0
75°	0.0	0.0	1.3	1.3	2.7	5.3	8.0	9.3	10.7	16.0
77.5°	0.0	0.0	1.3	2.7	4.0	5.3	6.7	10.7	9.3	9.3
80°	0.0	0.0	1.3	4.0	4.0	6.7	8.0	10.7	6.7	6.7
82.5°	0.0	0.0	1.3	5.3	4.0	13.3	13.3	14.7	5.3	5.3
85°	0.0	0.0	4.0	2.7	8.0	13.3	12.0	8.0	6.7	4.0
87.5°	0.0	0.0	1.3	1.3	2.7	4.0	9.3	8.0	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°
3910.2	0°	3910.2	3910.2	3910.2	3910.2	3910.2	3910.2	3910.2	3910.2	3910.2
3886.3	2.5°	3939.5	3922.2	3958.2	3954.2	3936.9	3928.9	3919.6	3911.6	3853.0
3888.9	5°	3940.9	3914.2	3958.2	3950.2	3947.5	3934.2	3926.2	3938.2	3884.9
3899.6	7.5°	3940.9	3914.2	3962.2	3964.8	3960.9	3950.2	3948.9	3956.9	3912.9
3918.2	10°	3967.5	3956.9	3996.8	4000.8	3995.5	3992.8	3986.2	3980.8	3934.2
3982.2	12.5°	4023.4	4002.1	4047.4	4059.4	4055.4	4062.1	4046.1	4054.1	4006.1
4047.4	15°	4091.4	4092.7	4127.3	4154.0	4151.3	4172.6	4148.6	4170.0	4135.3
4122.0	17.5°	4195.3	4209.9	4259.2	4299.1	4313.8	4329.8	4313.8	4320.4	4271.2
4039.4	20°	4086.0	4140.7	4377.7	4451.0	4481.6	4496.2	4469.6	4477.6	4428.3
3938.2	22.5°	3987.5	4058.1	4268.5	4497.6	4592.1	4621.4	4612.1	4610.8	4592.1
3738.4	25°	3842.3	3984.8	4079.4	4321.8	4618.8	4672.0	4677.4	4676.0	4648.1
3615.9	27.5°	3663.9	3695.8	3940.9	4088.7	4432.3	4634.8	4626.8	4588.1	4550.9
3361.5	30°	3436.1	3581.3	3691.8	3927.6	4191.3	4520.2	4520.2	4490.9	4452.3
3271.0	32.5°	3320.2	3508.0	3610.6	3695.8	3920.9	4392.4	4445.6	4415.0	4384.4
3200.4	35°	3259.0	3286.9	3526.7	3603.9	3794.4	4146.0	4361.7	4331.1	4308.5
3012.6	37.5°	3124.5	3189.7	3301.6	3508.0	3566.6	3944.9	4249.9	4233.9	4207.2
2768.9	40°	2824.8	2999.3	3171.1	3366.9	3428.1	3686.5	4114.0	4120.7	4084.7
2509.2	42.5°	2647.7	2766.2	3035.2	3167.1	3332.2	3520.0	3982.2	3992.8	3967.5
2377.3	45°	2439.9	2571.8	2760.9	3000.6	3225.7	3290.9	3749.1	3861.0	3839.7
2114.9	47.5°	2249.5	2356.0	2587.7	2830.1	3079.2	3069.9	3481.4	3691.8	3662.5
1913.8	50°	1979.1	2165.6	2274.8	2497.2	2868.8	2894.1	3196.4	3493.4	3469.4
1626.2	52.5°	1668.8	1903.2	2112.3	2316.0	2655.7	2715.6	2931.4	3290.9	3275.0
1242.6	55°	1458.4	1628.8	1864.6	2028.4	2397.3	2557.1	2732.9	3097.8	3089.8
1021.5	57.5°	1037.5	1366.5	1560.9	1790.0	1984.4	2273.4	2403.9	2704.9	2630.4
566.0	60°	703.2	857.7	1094.8	1341.1	1471.7	1760.7	1881.9	2122.9	2103.0
338.3	62.5°	371.6	514.1	683.2	807.1	901.6	1182.7	1233.3	1493.0	1486.3
135.8	65°	163.8	217.1	370.2	434.2	531.4	661.9	705.9	799.1	776.5
66.6	67.5°	85.2	129.2	209.1	257.0	323.6	372.9	408.9	438.2	456.8
44.0	70°	51.9	94.6	129.2	178.5	222.4	262.4	290.3	330.3	354.3
22.6	72.5°	38.6	59.9	89.2	137.2	161.2	207.8	235.7	265.0	286.3
18.6	75°	21.3	40.0	71.9	107.9	129.2	169.1	194.4	214.4	221.1
10.7	77.5°	13.3	30.6	59.9	83.9	101.2	137.2	130.5	149.2	165.1
8.0	80°	9.3	22.6	46.6	69.3	70.6	87.9	103.9	119.9	130.5
5.3	82.5°	6.7	18.6	34.6	53.3	46.6	67.9	81.2	93.2	67.9
4.0	85°	5.3	13.3	17.3	32.0	26.6	47.9	41.3	40.0	26.6
2.7	87.5°	4.0	6.7	12.0	14.7	10.7	10.7	13.3	16.0	13.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3910.2
3813.0
3839.7
3862.3
3895.6
3963.5
4078.1
4228.6
4393.7
4532.2
4605.5
4521.6
4437.6
4359.1
4276.5
4180.6
4076.7
3964.8
3842.3
3683.8
3473.4
3285.6
3099.2
2622.4
2104.3
1487.7
767.1
456.8
355.6
290.3
217.1
167.8
131.9
49.3
26.6
13.3
0.0

(END OF REPORT)