

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: P638512

Luminaire Tested: **IFLD-S-SA3B-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638512
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9219.1 lumens
Efficiency: N/A
Efficacy: 75.3 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

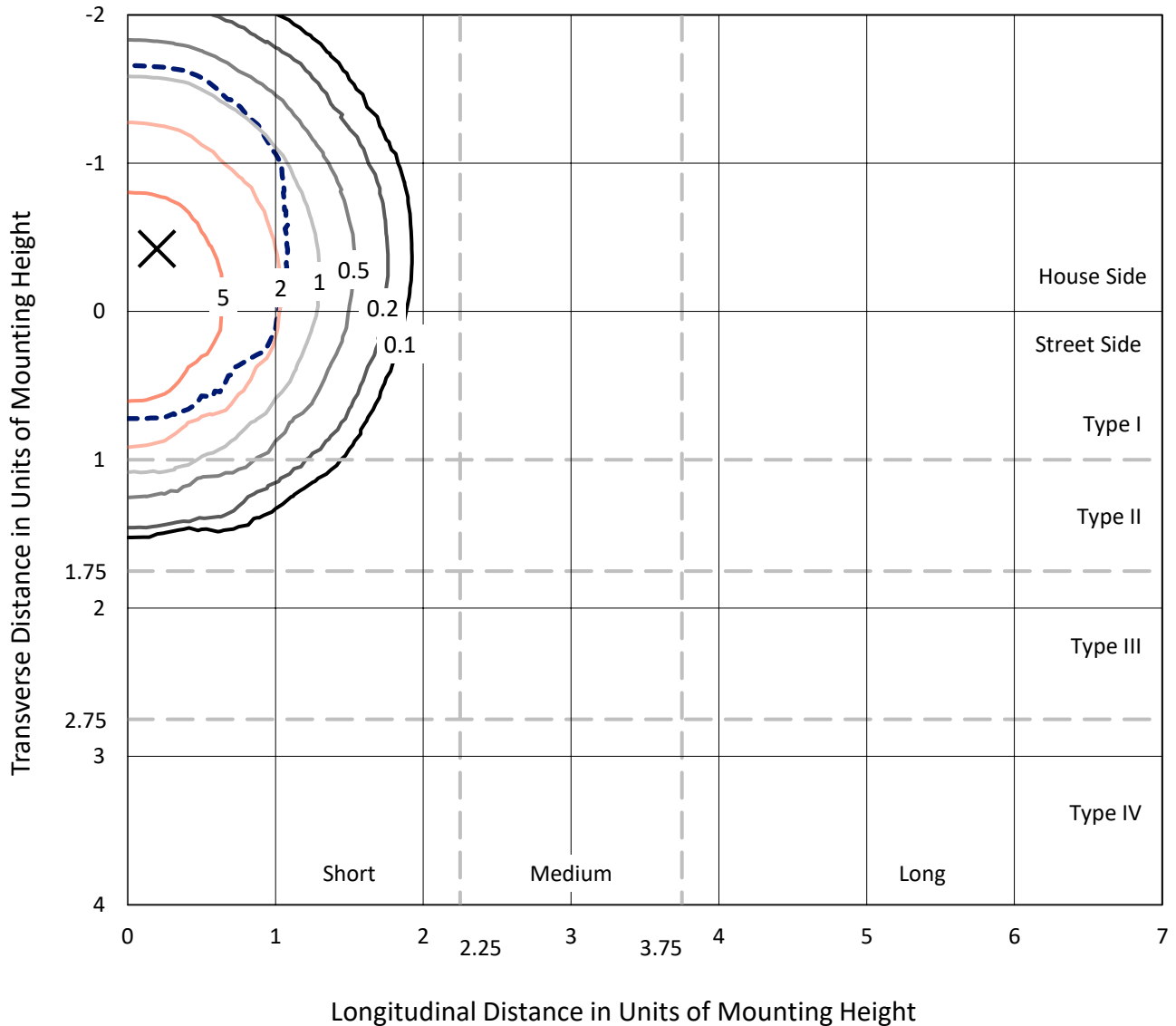
Input Watts (W): 122.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

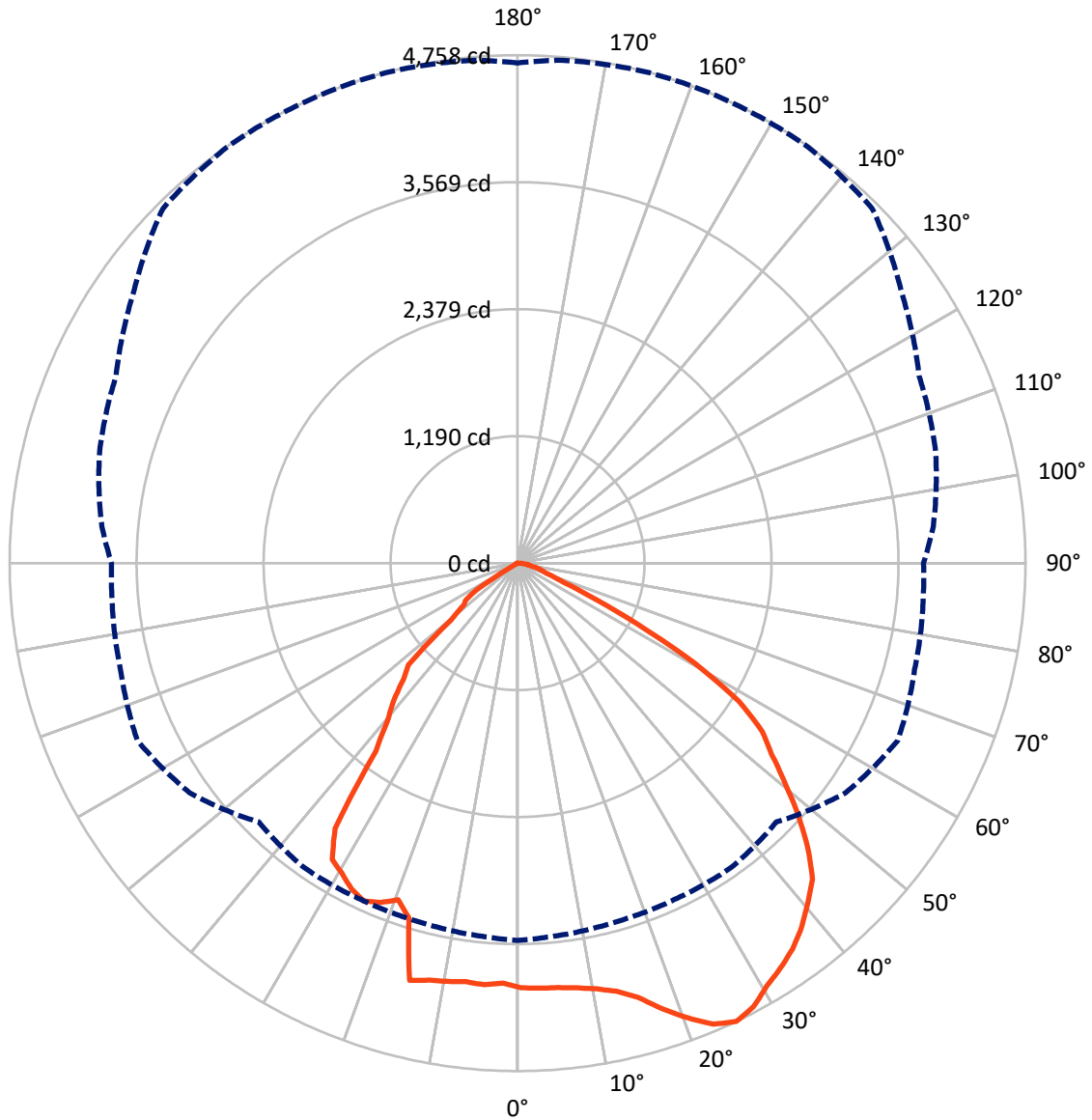
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.9 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	5707.6	0.0	5707.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	3511.5	0.0	3511.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	9219.1	0.0	9219.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.6	4.1
10°-20°	1165.3	12.6
20°-30°	1842.2	20.0
30°-40°	2081.0	22.6
40°-50°	1948.9	21.1
50°-60°	1343.6	14.6
60°-70°	361.0	3.9
70°-80°	75.2	0.8
80°-90°	20.3	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°	9219.1	100.0
0°-180°	9219.1	100.0



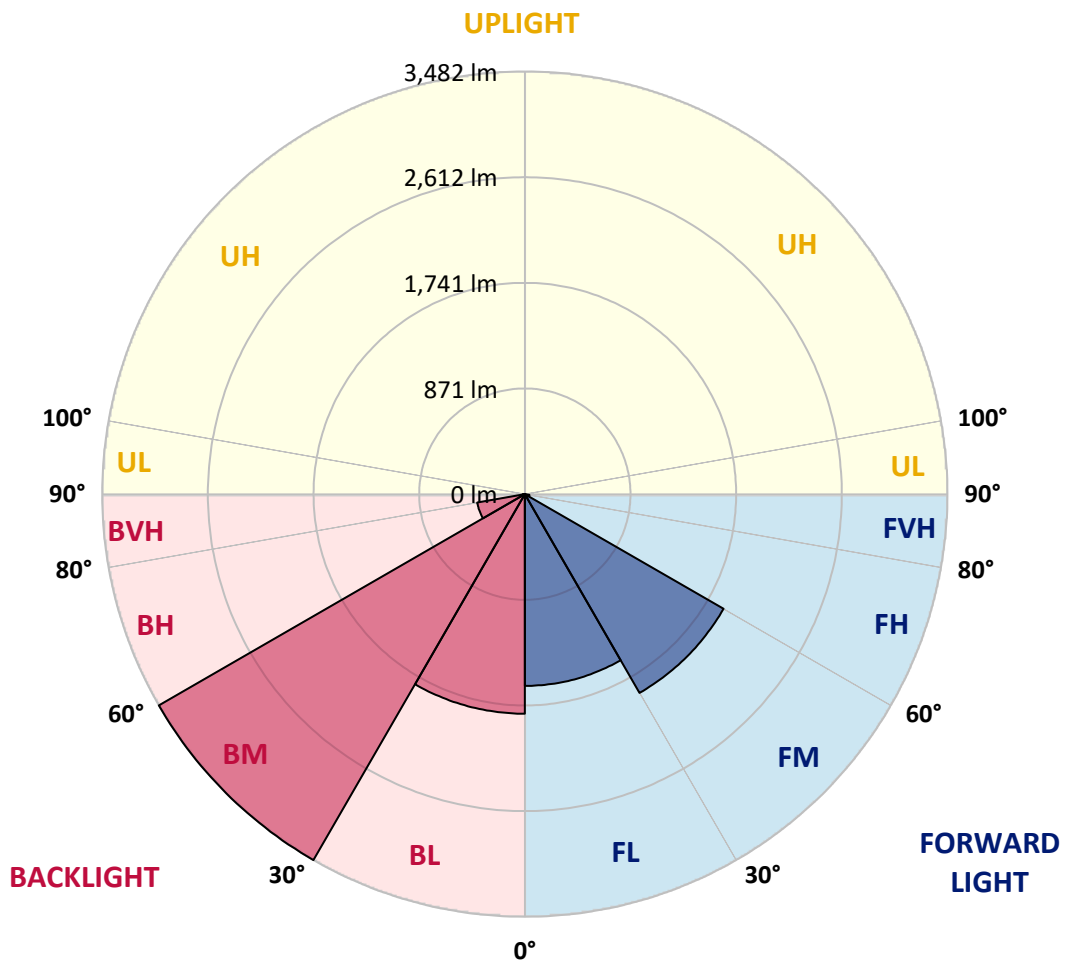
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1579.9	17.1			
FM (30°-60°)	1891.0	20.5			
FH (60°-80°)	37.9	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	1809.3	19.6	B3/2500		
BM (30°-60°)	3482.4	37.8	B3/5000		
BH (60°-80°)	398.3	4.3	B1/500		G1/500
BVH (80°-90°)	17.6	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°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
2.5°	3995.5	3969.8	3945.4	3937.2	3971.1	4007.7	3984.7	3986.0	3977.9	3992.8
5°	4025.3	3990.1	3973.8	3961.6	3967.0	4005.0	3972.5	3984.7	3971.1	3988.7
7.5°	4014.5	3990.1	3973.8	3950.8	3968.4	4013.1	3982.0	3983.3	3976.5	3992.8
10°	4007.7	3990.1	3969.8	3972.5	3992.8	4030.7	4006.3	4019.9	4010.4	4019.9
12.5°	4024.0	4005.0	3994.1	3994.1	4011.8	4055.1	4042.9	4055.1	4051.0	4059.2
15°	3870.9	3888.5	3991.4	4037.5	4072.7	4116.1	4110.7	4122.9	4125.6	4137.8
17.5°	3265.2	3247.6	3239.5	3476.6	4106.6	4240.7	4236.7	4235.3	4221.8	4212.3
20°	3345.2	3338.4	3328.9	3346.5	3417.0	4305.8	4332.9	4166.2	4117.4	4113.4
22.5°	3472.5	3461.7	3426.5	3427.8	3449.5	3743.5	4198.7	4047.0	4030.7	4021.2
25°	3534.8	3513.2	3484.7	3476.6	3483.4	3429.2	3750.3	3930.5	3850.5	3813.9
27.5°	3425.1	3426.5	3403.4	3425.1	3399.4	3155.5	3018.6	3702.8	3700.1	3683.9
30°	3342.5	3338.4	3311.3	3338.4	3160.9	2888.6	2830.3	3453.6	3425.1	3403.4
32.5°	3089.1	3091.8	3170.4	3276.1	2984.8	2769.3	2593.2	3085.0	3354.6	3342.5
35°	2209.8	2215.2	2494.3	3015.9	2717.9	2532.2	2518.7	2666.4	3243.5	3249.0
37.5°	2127.1	2127.1	2120.4	2205.7	2507.9	2436.0	2463.1	2448.2	2971.2	2984.8
40°	2067.5	2055.3	2045.8	1911.7	1743.7	2368.3	2387.3	2319.5	2808.6	2811.3
42.5°	1995.7	1982.2	1984.9	1736.9	1560.8	2200.3	2147.5	2056.7	2537.7	2540.4
45°	1864.3	1887.3	1903.6	1520.2	1506.6	1571.6	1980.8	1923.9	2354.8	2404.9
47.5°	948.4	968.7	1486.3	1398.2	1429.4	1396.9	1673.3	1674.6	1959.1	2125.8
50°	860.3	854.9	856.3	815.6	1319.6	1130.0	1209.9	1535.1	1568.9	1807.4
52.5°	802.1	800.7	718.1	638.1	829.2	994.5	878.0	1111.0	1166.5	1531.0
55°	593.4	636.8	566.3	600.2	518.9	796.7	792.6	1002.6	1021.6	1227.5
57.5°	5.4	6.8	16.3	456.6	359.0	398.3	547.4	684.2	718.1	956.5
60°	1.4	2.7	6.8	13.5	233.0	245.2	365.8	395.6	445.8	570.4
62.5°	0.0	0.0	2.7	6.8	12.2	100.3	116.5	127.4	196.5	291.3
65°	0.0	0.0	1.4	4.1	6.8	16.3	28.5	59.6	85.4	105.7
67.5°	0.0	0.0	1.4	2.7	5.4	8.1	16.3	23.0	36.6	62.3
70°	0.0	0.0	1.4	2.7	4.1	6.8	10.8	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	20.3
75°	0.0	0.0	1.4	1.4	2.7	5.4	8.1	9.5	10.8	16.3
77.5°	0.0	0.0	1.4	2.7	4.1	5.4	6.8	10.8	9.5	9.5
80°	0.0	0.0	1.4	4.1	4.1	6.8	8.1	10.8	6.8	6.8
82.5°	0.0	0.0	1.4	5.4	4.1	13.5	13.5	14.9	5.4	5.4
85°	0.0	0.0	4.1	2.7	8.1	13.5	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°
3977.9	0°	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9	3977.9
3953.5	2.5°	4007.7	3990.1	4026.7	4022.6	4005.0	3996.9	3987.4	3979.2	3919.6
3956.2	5°	4009.0	3982.0	4026.7	4018.5	4015.8	4002.3	3994.1	4006.3	3952.1
3967.0	7.5°	4009.0	3982.0	4030.7	4033.4	4029.4	4018.5	4017.2	4025.3	3980.6
3986.0	10°	4036.1	4025.3	4066.0	4070.0	4064.6	4061.9	4055.1	4049.7	4002.3
4051.0	12.5°	4093.0	4071.4	4117.4	4129.6	4125.6	4132.3	4116.1	4124.2	4075.4
4117.4	15°	4162.1	4163.5	4198.7	4225.8	4223.1	4244.8	4220.4	4242.1	4206.9
4193.3	17.5°	4267.8	4282.7	4332.9	4373.5	4388.4	4404.7	4388.4	4395.2	4345.1
4109.3	20°	4156.7	4212.3	4453.4	4528.0	4559.1	4574.0	4546.9	4555.1	4504.9
4006.3	22.5°	4056.5	4128.3	4342.3	4575.4	4671.6	4701.4	4691.9	4690.5	4671.6
3803.1	25°	3908.8	4053.8	4150.0	4396.5	4698.7	4752.9	4758.3	4756.9	4728.5
3678.5	27.5°	3727.2	3759.8	4009.0	4159.4	4509.0	4714.9	4706.8	4667.5	4629.6
3419.7	30°	3495.6	3643.2	3755.7	3995.5	4263.8	4598.4	4598.4	4568.6	4529.3
3327.6	32.5°	3377.7	3568.7	3673.0	3759.8	3988.7	4468.3	4522.5	4491.4	4460.2
3255.7	35°	3315.4	3343.8	3587.7	3666.3	3860.0	4217.7	4437.2	4406.0	4383.0
3064.7	37.5°	3178.5	3244.9	3358.7	3568.7	3628.3	4013.1	4323.4	4307.1	4280.0
2816.8	40°	2873.7	3051.2	3225.9	3425.1	3487.4	3750.3	4185.2	4192.0	4155.4
2552.6	42.5°	2693.5	2814.1	3087.7	3221.9	3389.9	3580.9	4051.0	4061.9	4036.1
2418.4	45°	2482.1	2616.2	2808.6	3052.5	3281.5	3347.9	3813.9	3927.8	3906.1
2151.5	47.5°	2288.4	2396.8	2632.5	2879.1	3132.4	3123.0	3541.6	3755.7	3725.9
1946.9	50°	2013.3	2203.0	2314.1	2540.4	2918.4	2944.1	3251.7	3553.8	3529.4
1654.3	52.5°	1697.6	1936.1	2148.8	2356.1	2701.6	2762.6	2982.1	3347.9	3331.6
1264.1	55°	1483.6	1657.0	1896.8	2063.5	2438.8	2601.3	2780.2	3151.4	3143.3
1039.2	57.5°	1055.4	1390.1	1587.9	1820.9	2018.8	2312.8	2445.5	2751.7	2675.9
575.8	60°	715.4	872.5	1113.7	1364.3	1497.1	1791.1	1914.4	2159.7	2139.3
344.1	62.5°	378.0	523.0	695.0	821.0	917.2	1203.1	1254.6	1518.8	1512.0
138.2	65°	166.6	220.8	376.7	441.7	540.6	673.4	718.1	812.9	789.9
67.7	67.5°	86.7	131.4	212.7	261.5	329.2	379.4	415.9	445.8	464.7
44.7	70°	52.8	96.2	131.4	181.6	226.3	266.9	295.4	336.0	360.4
23.0	72.5°	39.3	61.0	90.8	139.6	163.9	211.4	239.8	269.6	291.3
19.0	75°	21.7	40.6	73.2	109.7	131.4	172.1	197.8	218.1	224.9
10.8	77.5°	13.5	31.2	61.0	85.4	103.0	139.6	132.8	151.7	168.0
8.1	80°	9.5	23.0	47.4	70.5	71.8	89.4	105.7	121.9	132.8
5.4	82.5°	6.8	19.0	35.2	54.2	47.4	69.1	82.6	94.8	69.1
4.1	85°	5.4	13.5	17.6	32.5	27.1	48.8	42.0	40.6	27.1
2.7	87.5°	4.1	6.8	12.2	14.9	10.8	10.8	13.5	16.3	13.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3977.9
3879.0
3906.1
3929.1
3963.0
4032.1
4148.6
4301.7
4469.7
4610.6
4685.1
4599.8
4514.4
4434.5
4350.5
4252.9
4147.2
4033.4
3908.8
3747.6
3533.5
3342.5
3152.8
2667.7
2140.7
1513.4
780.4
464.7
361.7
295.4
220.8
170.7
134.1
50.1
27.1
13.5
0.0

(END OF REPORT)