

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: P638335

Luminaire Tested: **IFLD-S-SA2D-727-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638335  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2D-727-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9640 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

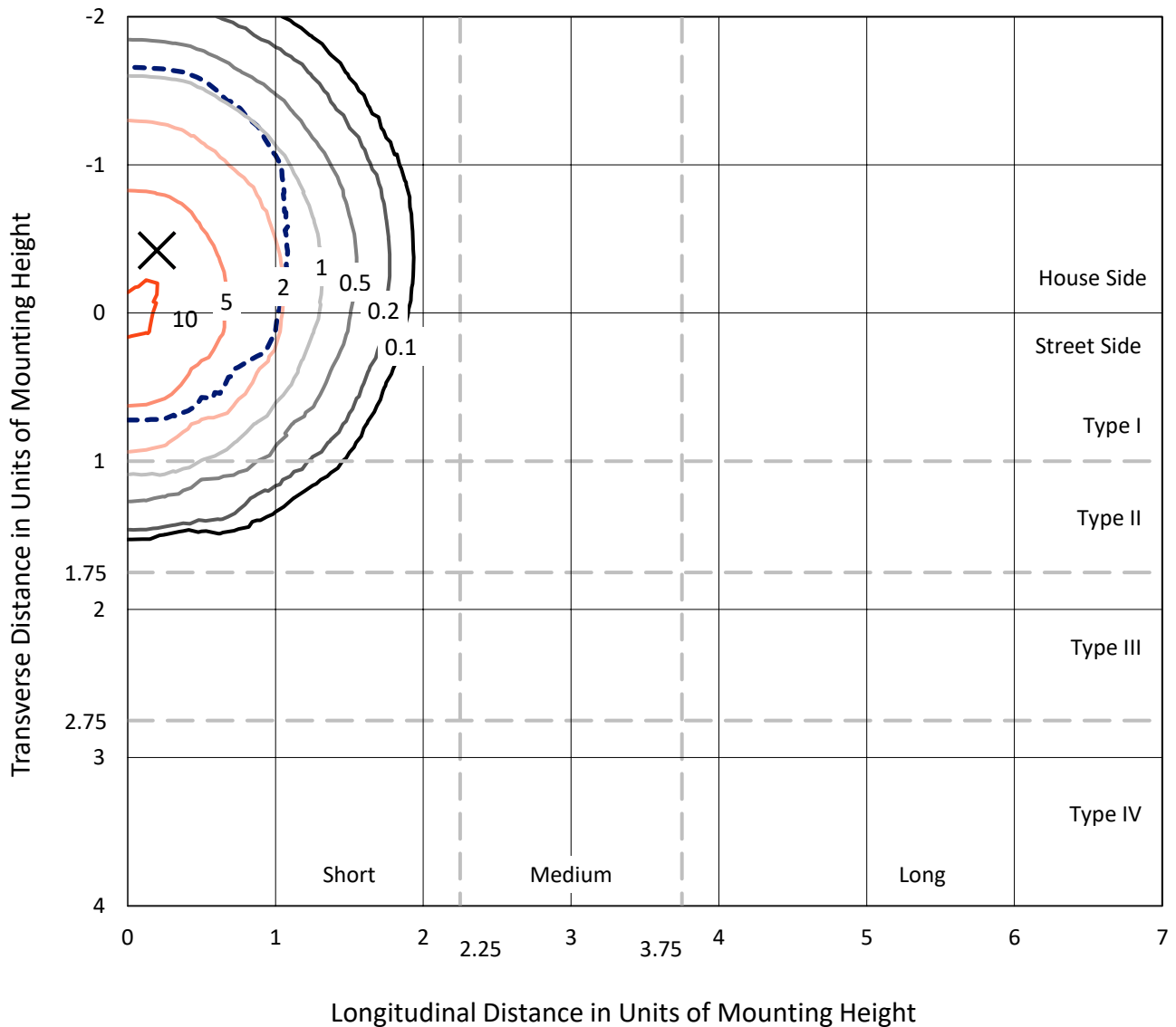
Input Watts (W): 123.9  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

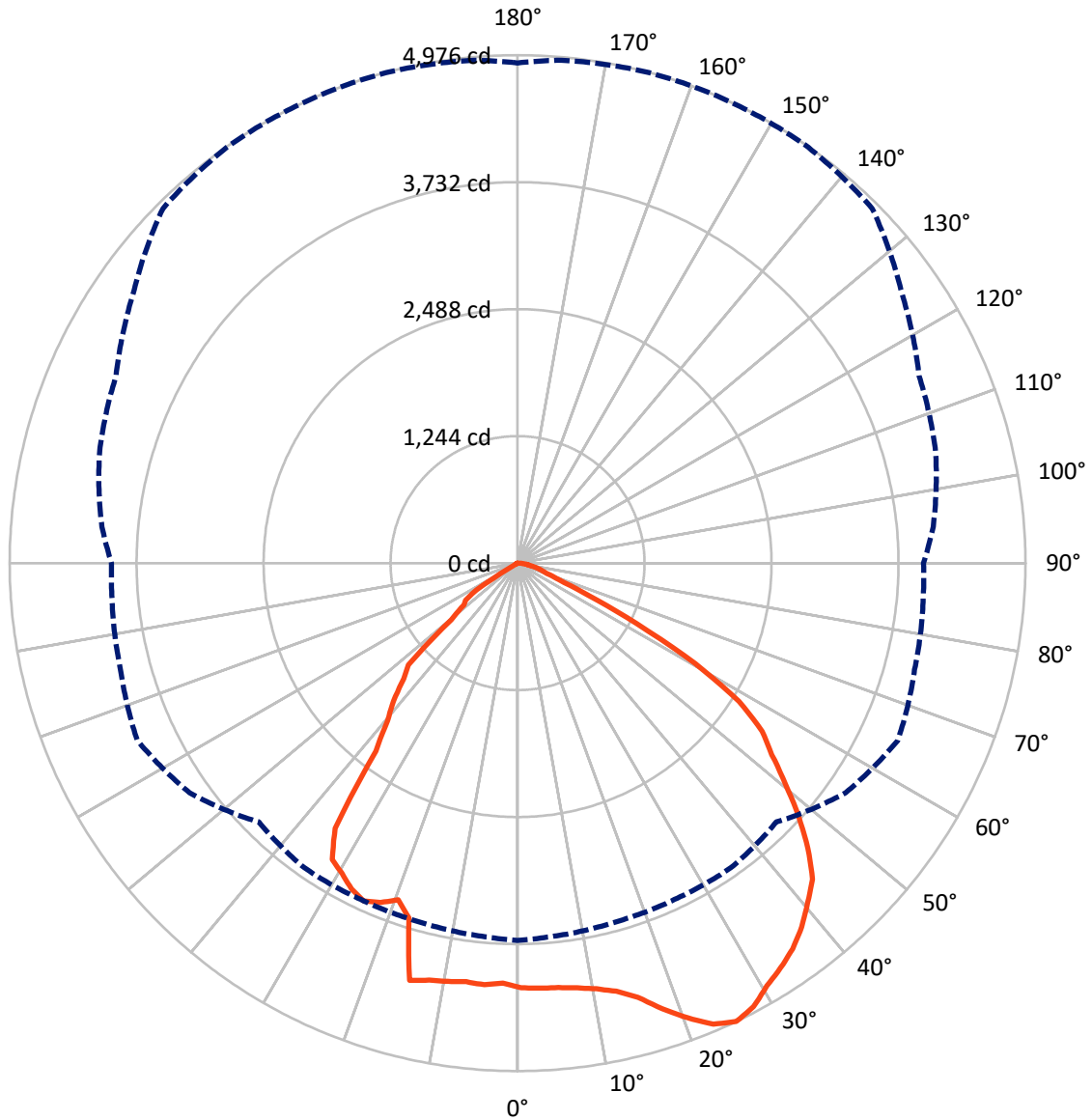
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.4 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
<b>House Side</b>	Lumens	5968.1	0.0	5968.1
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3671.8	0.0	3671.8
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	9640.0	0.0	9640.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	399.0	4.1
10°-20°	1218.5	12.6
20°-30°	1926.3	20.0
30°-40°	2176.0	22.6
40°-50°	2037.8	21.1
50°-60°	1404.9	14.6
60°-70°	377.5	3.9
70°-80°	78.7	0.8
80°-90°	21.3	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°	9640.0	100.0
0°-180°	9640.0	100.0



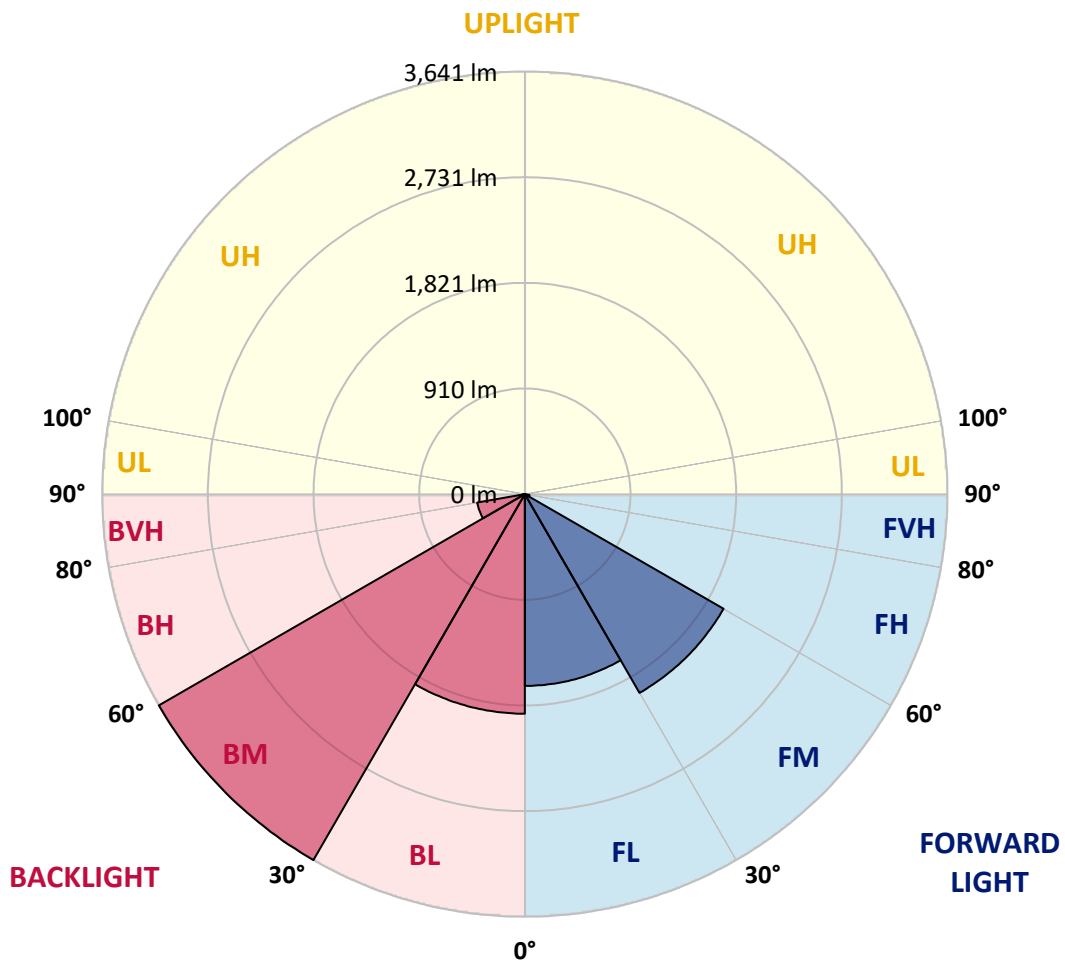
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1652.0	17.1			
FM (30°-60°)	1977.4	20.5			
FH (60°-80°)	39.6	0.4			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	1891.9	19.6	B3/2500		
BM (30°-60°)	3641.3	37.8	B3/5000		
BH (60°-80°)	416.5	4.3	B1/500		G1/500
BVH (80°-90°)	18.4	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°	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5
2.5°	4177.9	4151.0	4125.5	4117.0	4152.4	4190.6	4166.5	4168.0	4159.5	4175.0
5°	4209.1	4172.2	4155.2	4142.5	4148.1	4187.8	4153.8	4166.5	4152.4	4170.8
7.5°	4197.7	4172.2	4155.2	4131.1	4149.5	4196.3	4163.7	4165.1	4158.0	4175.0
10°	4190.6	4172.2	4151.0	4153.8	4175.0	4214.7	4189.2	4203.4	4193.5	4203.4
12.5°	4207.6	4187.8	4176.5	4176.5	4194.9	4240.2	4227.5	4240.2	4236.0	4244.5
15°	4047.5	4066.0	4173.6	4221.8	4258.6	4304.0	4298.3	4311.1	4313.9	4326.6
17.5°	3414.3	3395.9	3387.4	3635.3	4294.1	4434.3	4430.1	4428.6	4414.5	4404.6
20°	3497.9	3490.8	3480.9	3499.3	3572.9	4502.3	4530.6	4356.4	4305.4	4301.1
22.5°	3631.0	3619.7	3582.9	3584.3	3606.9	3914.4	4390.4	4231.7	4214.7	4204.8
25°	3696.2	3673.5	3643.8	3635.3	3642.4	3585.7	3921.5	4109.9	4026.3	3988.0
27.5°	3581.4	3582.9	3558.8	3581.4	3554.5	3299.5	3156.4	3871.9	3869.0	3852.0
30°	3495.0	3490.8	3462.4	3490.8	3305.2	3020.4	2959.5	3611.2	3581.4	3558.8
32.5°	3230.1	3232.9	3315.1	3425.6	3121.0	2895.8	2711.6	3225.9	3507.8	3495.0
35°	2310.7	2316.3	2608.2	3153.6	2841.9	2647.8	2633.7	2788.1	3391.6	3397.3
37.5°	2224.2	2224.2	2217.2	2306.4	2622.3	2547.2	2575.6	2560.0	3106.8	3121.0
40°	2161.9	2149.2	2139.2	1999.0	1823.3	2476.4	2496.2	2425.4	2936.8	2939.7
42.5°	2086.8	2072.6	2075.5	1816.2	1632.1	2300.7	2245.5	2150.6	2653.5	2656.3
45°	1949.4	1973.5	1990.5	1589.6	1575.4	1643.4	2071.2	2011.7	2462.2	2514.7
47.5°	991.7	1012.9	1554.1	1462.0	1494.6	1460.6	1749.6	1751.1	2048.6	2222.8
50°	899.6	893.9	895.4	852.9	1379.9	1181.5	1265.1	1605.1	1640.6	1889.9
52.5°	838.7	837.3	750.9	667.3	867.0	1039.9	918.0	1161.7	1219.8	1600.9
55°	620.5	665.9	592.2	627.6	542.6	833.0	828.8	1048.4	1068.2	1283.5
57.5°	5.7	7.1	17.0	477.4	375.4	416.5	572.4	715.4	750.9	1000.2
60°	1.4	2.8	7.1	14.2	243.7	256.4	382.5	413.7	466.1	596.4
62.5°	0.0	0.0	2.8	7.1	12.8	104.8	121.8	133.2	205.4	304.6
65°	0.0	0.0	1.4	4.3	7.1	17.0	29.8	62.3	89.3	110.5
67.5°	0.0	0.0	1.4	2.8	5.7	8.5	17.0	24.1	38.3	65.2
70°	0.0	0.0	1.4	2.8	4.3	7.1	11.3	17.0	22.7	32.6
72.5°	0.0	0.0	1.4	2.8	2.8	8.5	8.5	12.8	17.0	21.3
75°	0.0	0.0	1.4	1.4	2.8	5.7	8.5	9.9	11.3	17.0
77.5°	0.0	0.0	1.4	2.8	4.3	5.7	7.1	11.3	9.9	9.9
80°	0.0	0.0	1.4	4.3	4.3	7.1	8.5	11.3	7.1	7.1
82.5°	0.0	0.0	1.4	5.7	4.3	14.2	14.2	15.6	5.7	5.7
85°	0.0	0.0	4.3	2.8	8.5	14.2	12.8	8.5	7.1	4.3
87.5°	0.0	0.0	1.4	1.4	2.8	4.3	9.9	8.5	2.8	2.8
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°
4159.5	0°	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5	4159.5
4134.0	2.5°	4190.6	4172.2	4210.5	4206.2	4187.8	4179.3	4169.4	4160.9	4098.5
4136.8	5°	4192.1	4163.7	4210.5	4202.0	4199.1	4185.0	4176.5	4189.2	4132.5
4148.1	7.5°	4192.1	4163.7	4214.7	4217.6	4213.3	4202.0	4200.6	4209.1	4162.3
4168.0	10°	4220.4	4209.1	4251.6	4255.8	4250.1	4247.3	4240.2	4234.6	4185.0
4236.0	12.5°	4279.9	4257.2	4305.4	4318.1	4313.9	4321.0	4304.0	4312.5	4261.5
4305.4	15°	4352.1	4353.6	4390.4	4418.7	4415.9	4438.6	4413.1	4435.7	4398.9
4384.7	17.5°	4462.6	4478.2	4530.6	4573.1	4588.7	4605.7	4588.7	4595.8	4543.4
4296.9	20°	4346.5	4404.6	4656.7	4734.7	4767.2	4782.8	4754.5	4763.0	4710.6
4189.2	22.5°	4241.6	4316.7	4540.6	4784.2	4884.8	4916.0	4906.1	4904.7	4884.8
3976.7	25°	4087.2	4238.8	4339.4	4597.2	4913.2	4969.8	4975.5	4974.1	4944.3
3846.4	27.5°	3897.4	3931.4	4192.1	4349.3	4714.8	4930.2	4921.7	4880.6	4840.9
3575.8	30°	3655.1	3809.5	3927.1	4177.9	4458.4	4808.3	4808.3	4777.2	4736.1
3479.4	32.5°	3531.9	3731.6	3840.7	3931.4	4170.8	4672.3	4729.0	4696.4	4663.8
3404.4	35°	3466.7	3496.4	3751.5	3833.6	4036.2	4410.2	4639.7	4607.1	4583.1
3204.6	37.5°	3323.6	3393.0	3512.0	3731.6	3794.0	4196.3	4520.7	4503.7	4475.4
2945.3	40°	3004.8	3190.4	3373.2	3581.4	3646.6	3921.5	4376.2	4383.3	4345.1
2669.1	42.5°	2816.4	2942.5	3228.7	3368.9	3544.6	3744.4	4236.0	4247.3	4220.4
2528.8	45°	2595.4	2735.7	2936.8	3191.9	3431.3	3500.7	3988.0	4107.0	4084.4
2249.7	47.5°	2392.8	2506.2	2752.7	3010.5	3275.4	3265.5	3703.3	3927.1	3896.0
2035.8	50°	2105.2	2303.6	2419.7	2656.3	3051.6	3078.5	3400.1	3716.0	3690.5
1729.8	52.5°	1775.1	2024.5	2246.9	2463.7	2824.9	2888.7	3118.2	3500.7	3483.7
1321.8	55°	1551.3	1732.6	1983.4	2157.7	2550.1	2720.1	2907.1	3295.3	3286.8
1086.6	57.5°	1103.6	1453.5	1660.4	1904.1	2110.9	2418.3	2557.2	2877.3	2798.0
602.1	60°	748.0	912.4	1164.5	1426.6	1565.5	1872.9	2001.8	2258.2	2237.0
359.8	62.5°	395.3	546.9	726.8	858.5	959.1	1258.0	1311.9	1588.1	1581.1
144.5	65°	174.3	230.9	393.8	461.8	565.3	704.1	750.9	850.0	825.9
70.8	67.5°	90.7	137.4	222.4	273.4	344.3	396.7	434.9	466.1	485.9
46.8	70°	55.3	100.6	137.4	189.8	236.6	279.1	308.8	351.3	376.8
24.1	72.5°	41.1	63.8	94.9	145.9	171.4	221.0	250.8	281.9	304.6
19.8	75°	22.7	42.5	76.5	114.8	137.4	179.9	206.8	228.1	235.2
11.3	77.5°	14.2	32.6	63.8	89.3	107.7	145.9	138.8	158.7	175.7
8.5	80°	9.9	24.1	49.6	73.7	75.1	93.5	110.5	127.5	138.8
5.7	82.5°	7.1	19.8	36.8	56.7	49.6	72.3	86.4	99.2	72.3
4.3	85°	5.7	14.2	18.4	34.0	28.3	51.0	43.9	42.5	28.3
2.8	87.5°	4.3	7.1	12.8	15.6	11.3	11.3	14.2	17.0	14.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
4159.5  
4056.0  
4084.4  
4108.5  
4143.9  
4216.1  
4338.0  
4498.1  
4673.7  
4821.1  
4899.0  
4809.7  
4720.5  
4636.9  
4549.1  
4447.1  
4336.6  
4217.6  
4087.2  
3918.6  
3694.8  
3495.0  
3296.7  
2789.5  
2238.4  
1582.5  
816.0  
485.9  
378.3  
308.8  
230.9  
178.5  
140.3  
52.4  
28.3  
14.2  
0.0

(END OF REPORT)