

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: P638510

Luminaire Tested: **IFLD-S-SA2E-827-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638510  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2E-827-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9806.1 lumens  
Efficiency: N/A  
Efficacy: 62.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

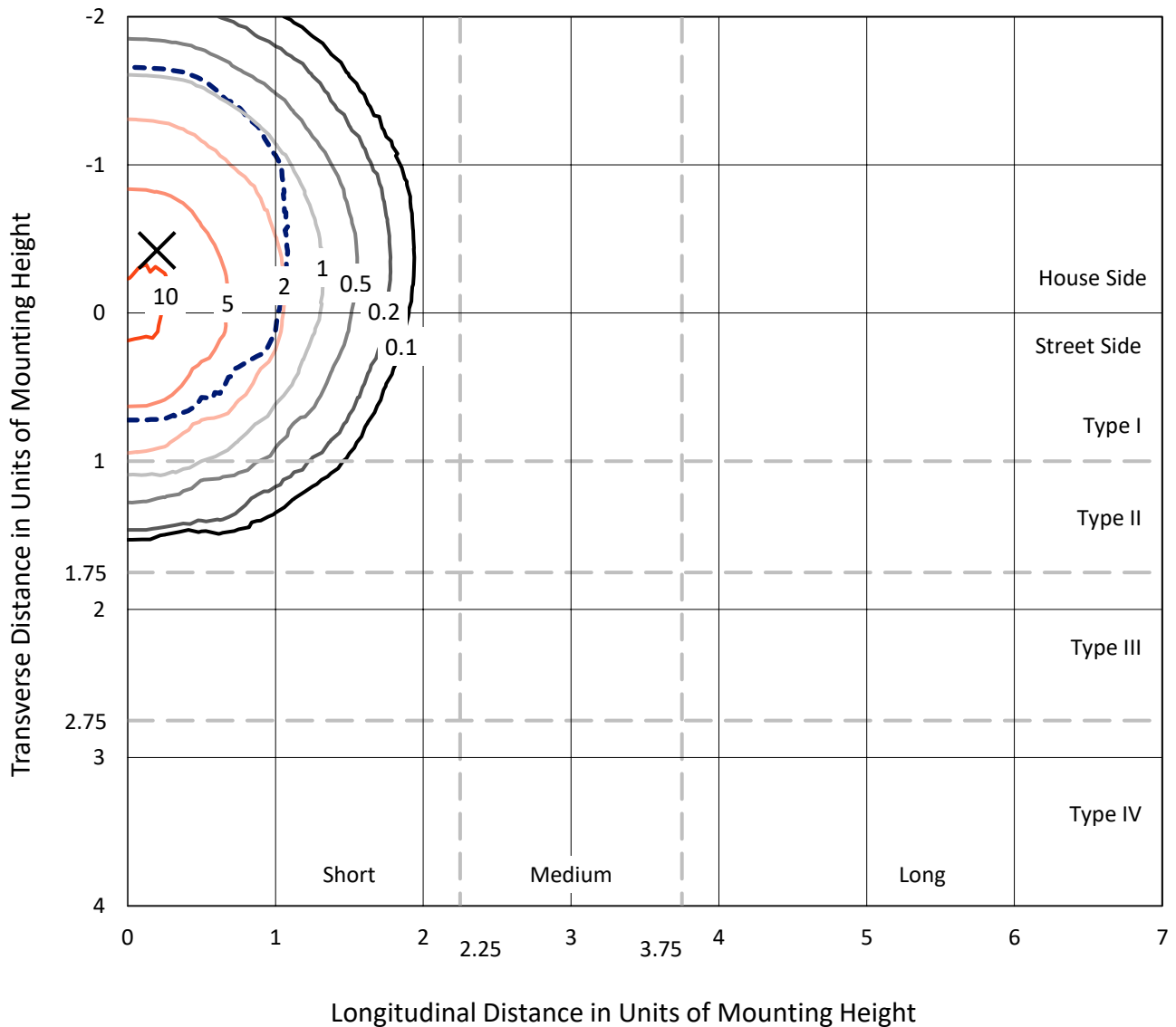
Input Watts (W): 156.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638510  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-LAM-VI

### Iso-Footcandle Lines of Horizontal Illumination

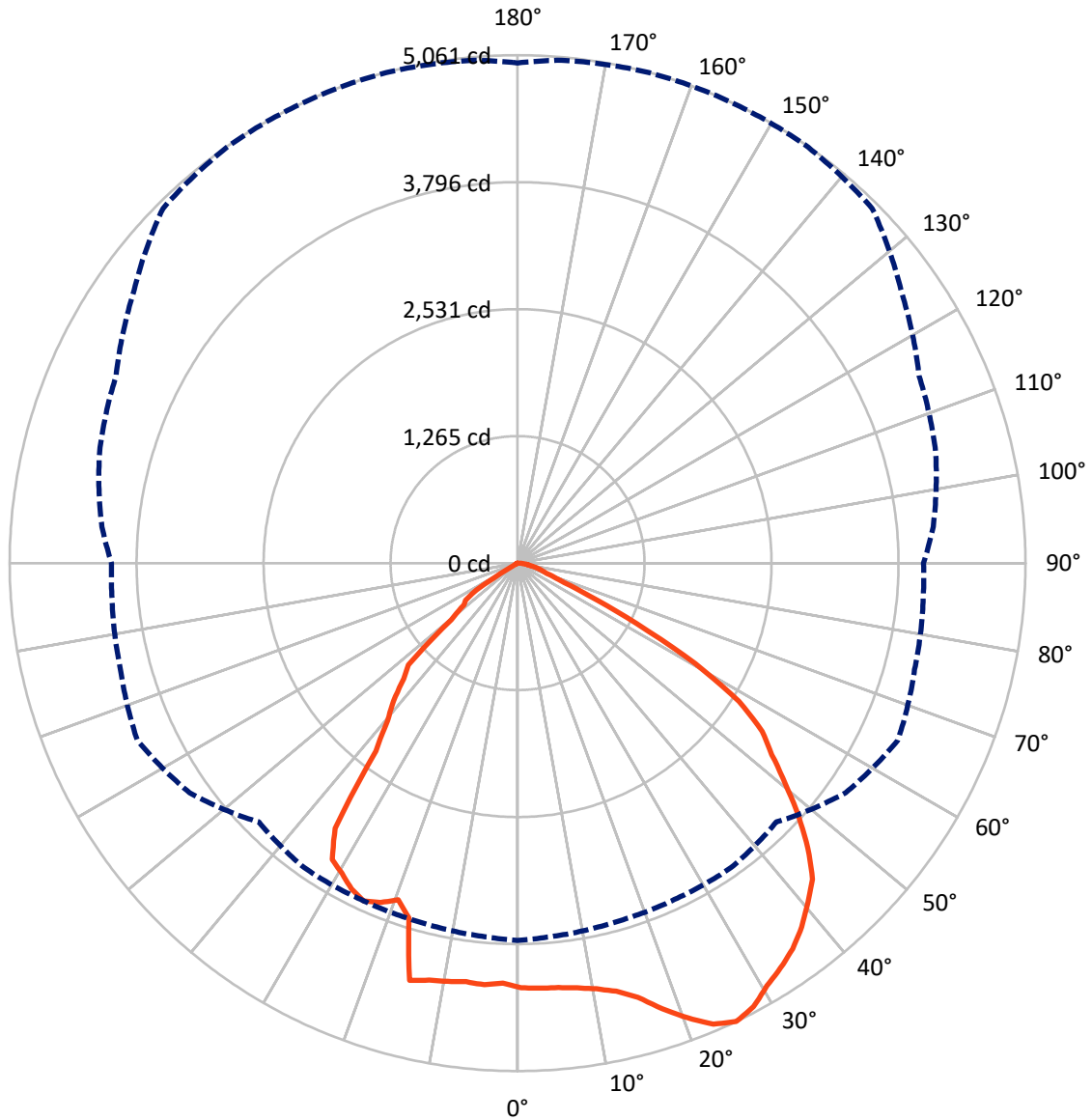
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.6 fc  
 Type I - Short - N/A

REPORT NUMBER: P638510  
CATALOG NUMBER: IFLD-S-SA2E-827-U-LAM-VI

### Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral      - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P638510  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-LAM-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6071.0	0.0	6071.0
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3735.1	0.0	3735.1
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	9806.1	0.0	9806.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	405.9	4.1
10°-20°	1239.5	12.6
20°-30°	1959.5	20.0
30°-40°	2213.5	22.6
40°-50°	2073.0	21.1
50°-60°	1429.2	14.6
60°-70°	384.0	3.9
70°-80°	80.0	0.8
80°-90°	21.6	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°	9806.1	100.0
0°-180°	9806.1	100.0



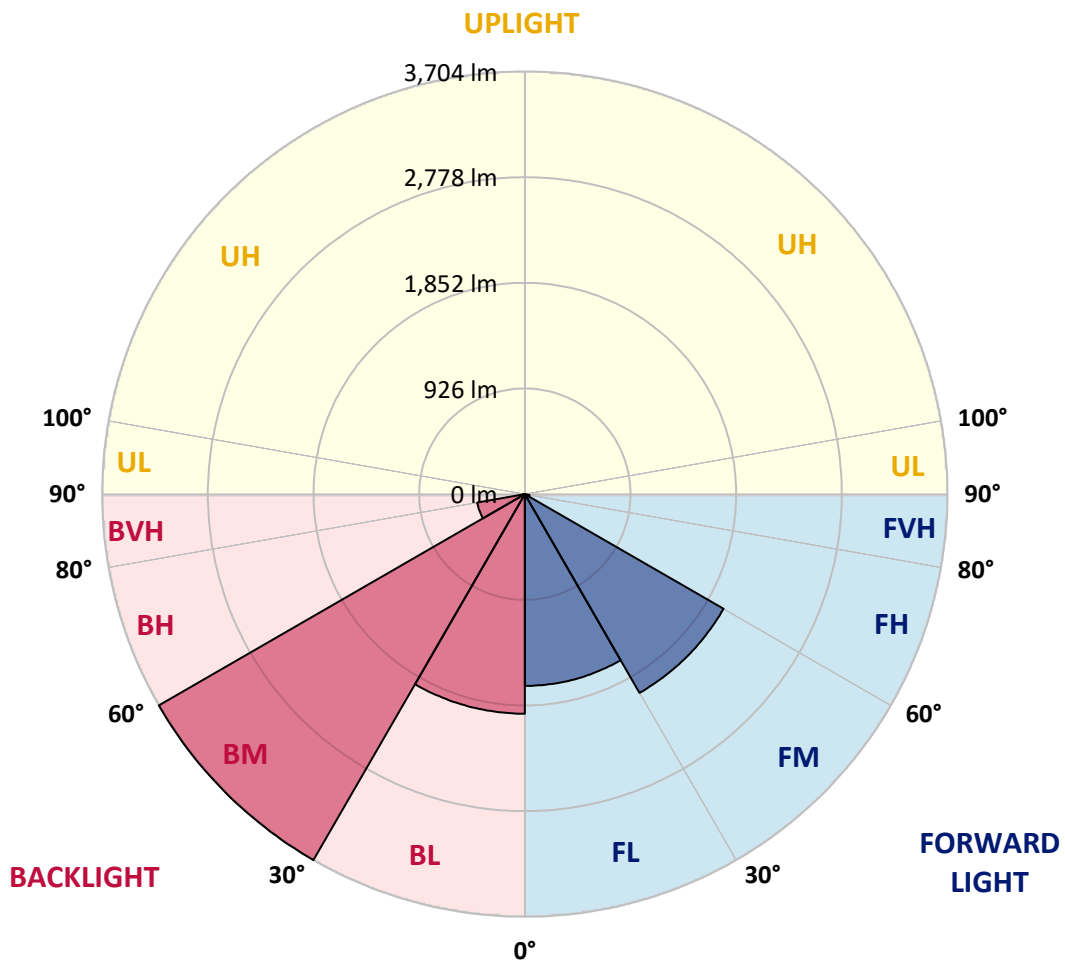
REPORT NUMBER: P638510  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1680.5	17.1			
FM (30°-60°)	2011.5	20.5			
FH (60°-80°)	40.3	0.4			G0/660
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	1924.5	19.6	B3/2500		
BM (30°-60°)	3704.1	37.8	B3/5000		
BH (60°-80°)	423.7	4.3	B1/500		G1/500
BVH (80°-90°)	18.7	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





REPORT NUMBER: P638510  
 CATALOG NUMBER: IFLD-S-SA2E-827-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2
2.5°	4249.9	4222.5	4196.6	4187.9	4224.0	4262.9	4238.4	4239.8	4231.2	4247.0
5°	4281.6	4244.2	4226.9	4213.9	4219.7	4260.0	4225.4	4238.4	4224.0	4242.7
7.5°	4270.1	4244.2	4226.9	4202.4	4221.1	4268.7	4235.5	4236.9	4229.7	4247.0
10°	4262.9	4244.2	4222.5	4225.4	4247.0	4287.4	4261.4	4275.9	4265.8	4275.9
12.5°	4280.2	4260.0	4248.5	4248.5	4267.2	4313.3	4300.4	4313.3	4309.0	4317.7
15°	4117.3	4136.1	4245.6	4294.6	4332.1	4378.2	4372.4	4385.4	4388.3	4401.2
17.5°	3473.1	3454.4	3445.8	3698.0	4368.1	4510.8	4506.4	4505.0	4490.6	4480.5
20°	3558.2	3551.0	3540.9	3559.6	3634.6	4579.9	4608.8	4431.5	4379.6	4375.3
22.5°	3693.6	3682.1	3644.6	3646.1	3669.1	3981.9	4466.1	4304.7	4287.4	4277.3
25°	3759.9	3736.9	3706.6	3698.0	3705.2	3647.5	3989.1	4180.7	4095.7	4056.8
27.5°	3643.2	3644.6	3620.1	3643.2	3615.8	3356.4	3210.9	3938.6	3935.7	3918.5
30°	3555.3	3551.0	3522.1	3551.0	3362.2	3072.5	3010.5	3673.5	3643.2	3620.1
32.5°	3285.8	3288.7	3372.3	3484.7	3174.8	2945.7	2758.3	3281.5	3568.3	3555.3
35°	2350.5	2356.3	2653.1	3208.0	2890.9	2693.5	2679.1	2836.2	3450.1	3455.8
37.5°	2262.6	2262.6	2255.4	2346.2	2667.5	2591.2	2620.0	2604.1	3160.4	3174.8
40°	2199.2	2186.2	2176.1	2033.4	1854.7	2519.1	2539.3	2467.2	2987.5	2990.4
42.5°	2122.8	2108.4	2111.3	1847.5	1660.2	2340.4	2284.2	2187.6	2699.3	2702.1
45°	1983.0	2007.5	2024.8	1617.0	1602.5	1671.7	2106.9	2046.4	2504.7	2558.0
47.5°	1008.8	1030.4	1580.9	1487.3	1520.4	1485.8	1779.8	1781.2	2083.9	2261.1
50°	915.1	909.4	910.8	867.6	1403.7	1201.9	1286.9	1632.8	1668.8	1922.5
52.5°	853.2	851.7	763.8	678.8	882.0	1057.8	933.9	1181.7	1240.8	1628.5
55°	631.2	677.3	602.4	638.4	552.0	847.4	843.1	1066.4	1086.6	1305.7
57.5°	5.8	7.2	17.3	485.7	381.9	423.7	582.2	727.8	763.8	1017.4
60°	1.4	2.9	7.2	14.4	247.9	260.8	389.1	420.8	474.1	606.7
62.5°	0.0	0.0	2.9	7.2	13.0	106.6	123.9	135.5	209.0	309.8
65°	0.0	0.0	1.4	4.3	7.2	17.3	30.3	63.4	90.8	112.4
67.5°	0.0	0.0	1.4	2.9	5.8	8.6	17.3	24.5	38.9	66.3
70°	0.0	0.0	1.4	2.9	4.3	7.2	11.5	17.3	23.1	33.1
72.5°	0.0	0.0	1.4	2.9	2.9	8.6	8.6	13.0	17.3	21.6
75°	0.0	0.0	1.4	1.4	2.9	5.8	8.6	10.1	11.5	17.3
77.5°	0.0	0.0	1.4	2.9	4.3	5.8	7.2	11.5	10.1	10.1
80°	0.0	0.0	1.4	4.3	4.3	7.2	8.6	11.5	7.2	7.2
82.5°	0.0	0.0	1.4	5.8	4.3	14.4	14.4	15.9	5.8	5.8
85°	0.0	0.0	4.3	2.9	8.6	14.4	13.0	8.6	7.2	4.3
87.5°	0.0	0.0	1.4	1.4	2.9	4.3	10.1	8.6	2.9	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638510

CATALOG NUMBER: IFLD-S-SA2E-827-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4231.2	0°	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2	4231.2
4205.2	2.5°	4262.9	4244.2	4283.1	4278.7	4260.0	4251.4	4241.3	4232.6	4169.2
4208.1	5°	4264.3	4235.5	4283.1	4274.4	4271.5	4257.1	4248.5	4261.4	4203.8
4219.7	7.5°	4264.3	4235.5	4287.4	4290.3	4285.9	4274.4	4273.0	4281.6	4234.1
4239.8	10°	4293.2	4281.6	4324.9	4329.2	4323.4	4320.5	4313.3	4307.6	4257.1
4309.0	12.5°	4353.7	4330.6	4379.6	4392.6	4388.3	4395.5	4378.2	4386.8	4334.9
4379.6	15°	4427.2	4428.6	4466.1	4494.9	4492.0	4515.1	4489.1	4512.2	4474.7
4460.3	17.5°	4539.6	4555.4	4608.8	4652.0	4667.8	4685.1	4667.8	4675.1	4621.7
4371.0	20°	4421.4	4480.5	4737.0	4816.3	4849.4	4865.3	4836.5	4845.1	4791.8
4261.4	22.5°	4314.8	4391.1	4618.8	4866.7	4969.0	5000.7	4990.7	4989.2	4969.0
4045.3	25°	4157.7	4311.9	4414.2	4676.5	4997.9	5055.5	5061.3	5059.8	5029.6
3912.7	27.5°	3964.6	3999.2	4264.3	4424.3	4796.1	5015.2	5006.5	4964.7	4924.4
3637.4	30°	3718.1	3875.2	3994.8	4249.9	4535.3	4891.2	4891.2	4859.5	4817.7
3539.4	32.5°	3592.8	3796.0	3906.9	3999.2	4242.7	4752.9	4810.5	4777.4	4744.2
3463.1	35°	3526.5	3556.7	3816.1	3899.7	4105.8	4486.3	4719.7	4686.6	4662.1
3259.9	37.5°	3380.9	3451.5	3572.6	3796.0	3859.4	4268.7	4598.7	4581.4	4552.6
2996.1	40°	3056.7	3245.4	3431.4	3643.2	3709.5	3989.1	4451.7	4458.9	4420.0
2715.1	42.5°	2865.0	2993.2	3284.4	3427.0	3605.7	3808.9	4309.0	4320.5	4293.2
2572.4	45°	2640.2	2782.8	2987.5	3246.9	3490.4	3561.1	4056.8	4177.9	4154.8
2288.5	47.5°	2434.1	2549.4	2800.1	3062.4	3331.9	3321.8	3767.1	3994.8	3963.1
2070.9	50°	2141.5	2343.3	2461.5	2702.1	3104.2	3131.6	3458.7	3780.1	3754.2
1759.6	52.5°	1805.7	2059.4	2285.6	2506.1	2873.6	2938.5	3171.9	3561.1	3543.8
1344.6	55°	1578.0	1762.5	2017.6	2194.9	2594.0	2767.0	2957.2	3352.1	3343.4
1105.4	57.5°	1122.6	1478.6	1689.0	1936.9	2147.3	2460.0	2601.3	2927.0	2846.2
612.5	60°	760.9	928.1	1184.6	1451.2	1592.5	1905.2	2036.3	2297.2	2275.6
366.0	62.5°	402.1	556.3	739.3	873.3	975.7	1279.7	1334.5	1615.5	1608.3
147.0	65°	177.3	234.9	400.6	469.8	575.0	716.2	763.8	864.7	840.2
72.1	67.5°	92.2	139.8	226.3	278.1	350.2	403.5	442.4	474.1	494.3
47.6	70°	56.2	102.3	139.8	193.1	240.7	283.9	314.2	357.4	383.3
24.5	72.5°	41.8	64.9	96.6	148.4	174.4	224.8	255.1	286.8	309.8
20.2	75°	23.1	43.2	77.8	116.7	139.8	183.0	210.4	232.0	239.2
11.5	77.5°	14.4	33.1	64.9	90.8	109.5	148.4	141.2	161.4	178.7
8.6	80°	10.1	24.5	50.4	74.9	76.4	95.1	112.4	129.7	141.2
5.8	82.5°	7.2	20.2	37.5	57.6	50.4	73.5	87.9	100.9	73.5
4.3	85°	5.8	14.4	18.7	34.6	28.8	51.9	44.7	43.2	28.8
2.9	87.5°	4.3	7.2	13.0	15.9	11.5	11.5	14.4	17.3	14.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
4231.2  
4126.0  
4154.8  
4179.3  
4215.3  
4288.8  
4412.8  
4575.6  
4754.3  
4904.2  
4983.5  
4892.7  
4801.9  
4716.8  
4627.5  
4523.7  
4411.3  
4290.3  
4157.7  
3986.2  
3758.5  
3555.3  
3353.5  
2837.6  
2277.0  
1609.8  
830.1  
494.3  
384.8  
314.2  
234.9  
181.6  
142.7  
53.3  
28.8  
14.4  
0.0

(END OF REPORT)