

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: P638521

Luminaire Tested: **IFLD-M-SA4A-827-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638521  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-M-SA4A-827-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (64) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10005.5 lumens  
Efficiency: N/A  
Efficacy: 77.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

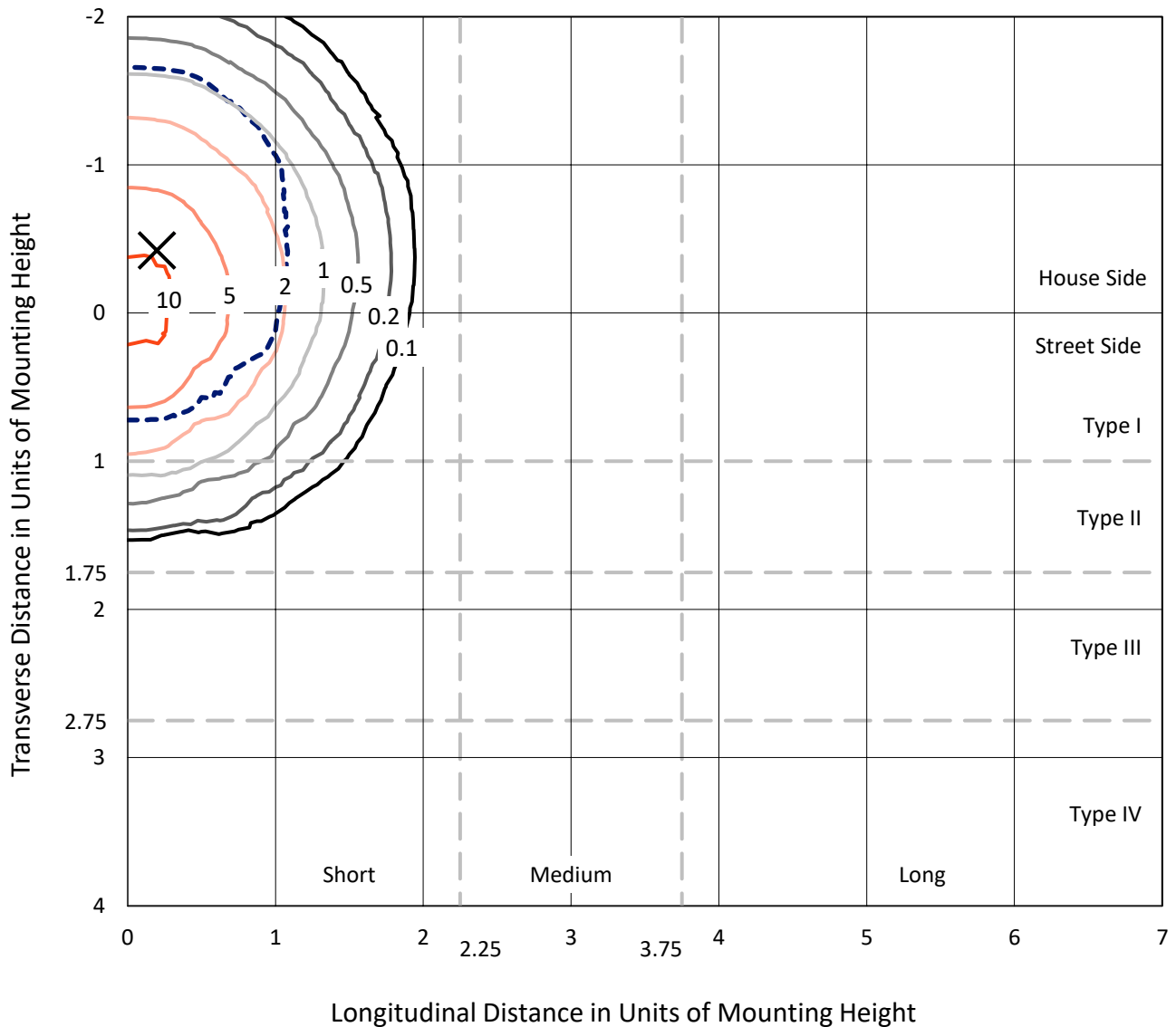
Input Watts (W): 128.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638521  
 CATALOG NUMBER: IFLD-M-SA4A-827-U-LAM-VI

### Iso-Footcandle Lines of Horizontal Illumination

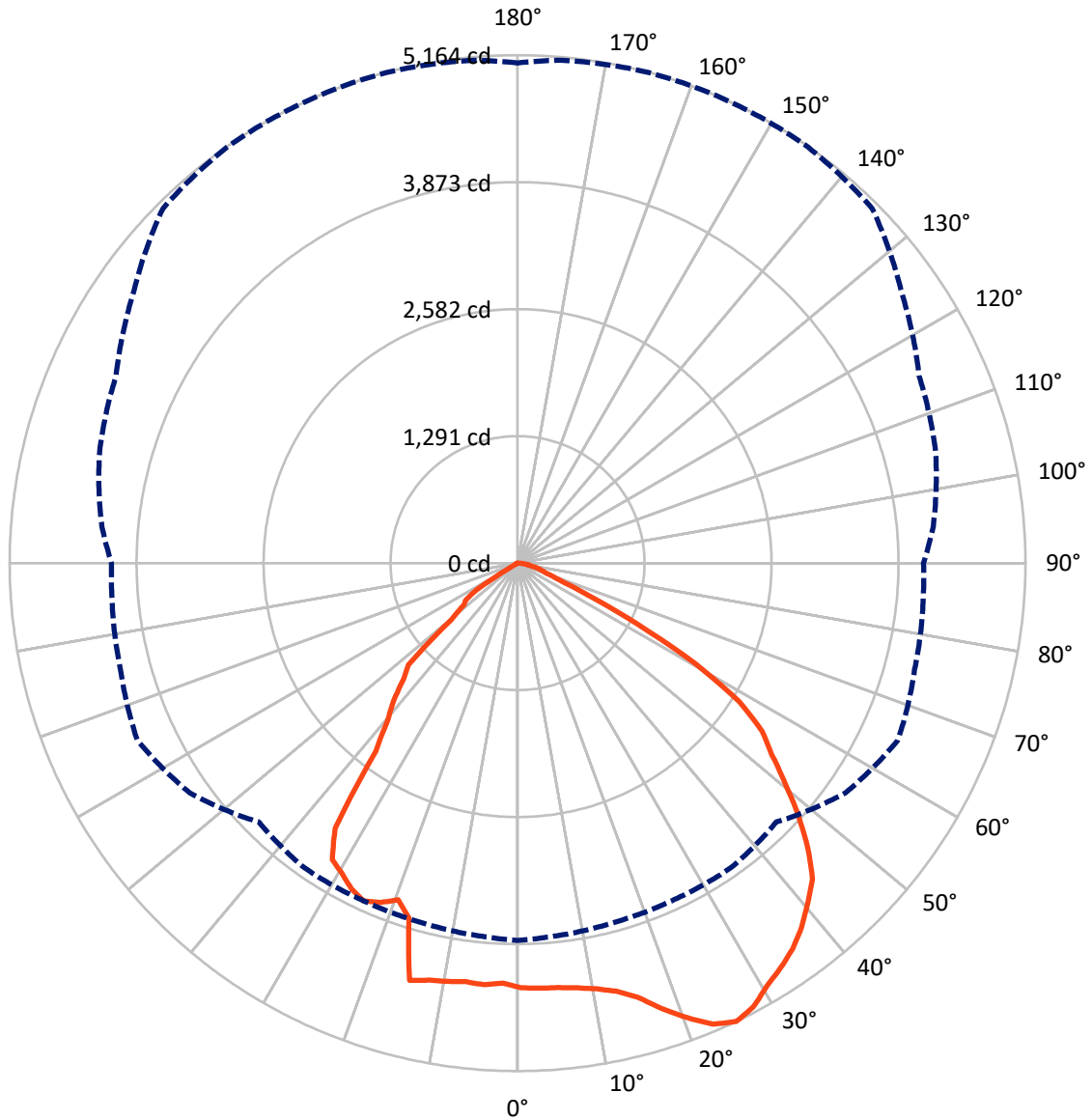
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 fc  
 Type I - Short - N/A

REPORT NUMBER: P638521  
CATALOG NUMBER: IFLD-M-SA4A-827-U-LAM-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638521  
 CATALOG NUMBER: IFLD-M-SA4A-827-U-LAM-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6194.5	0.0	6194.5
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	3811.1	0.0	3811.1
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	10005.5	0.0	10005.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	414.2	4.1
10°-20°	1264.7	12.6
20°-30°	1999.4	20.0
30°-40°	2258.5	22.6
40°-50°	2115.1	21.1
50°-60°	1458.2	14.6
60°-70°	391.8	3.9
70°-80°	81.6	0.8
80°-90°	22.1	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°	10005.5	100.0
0°-180°	10005.5	100.0



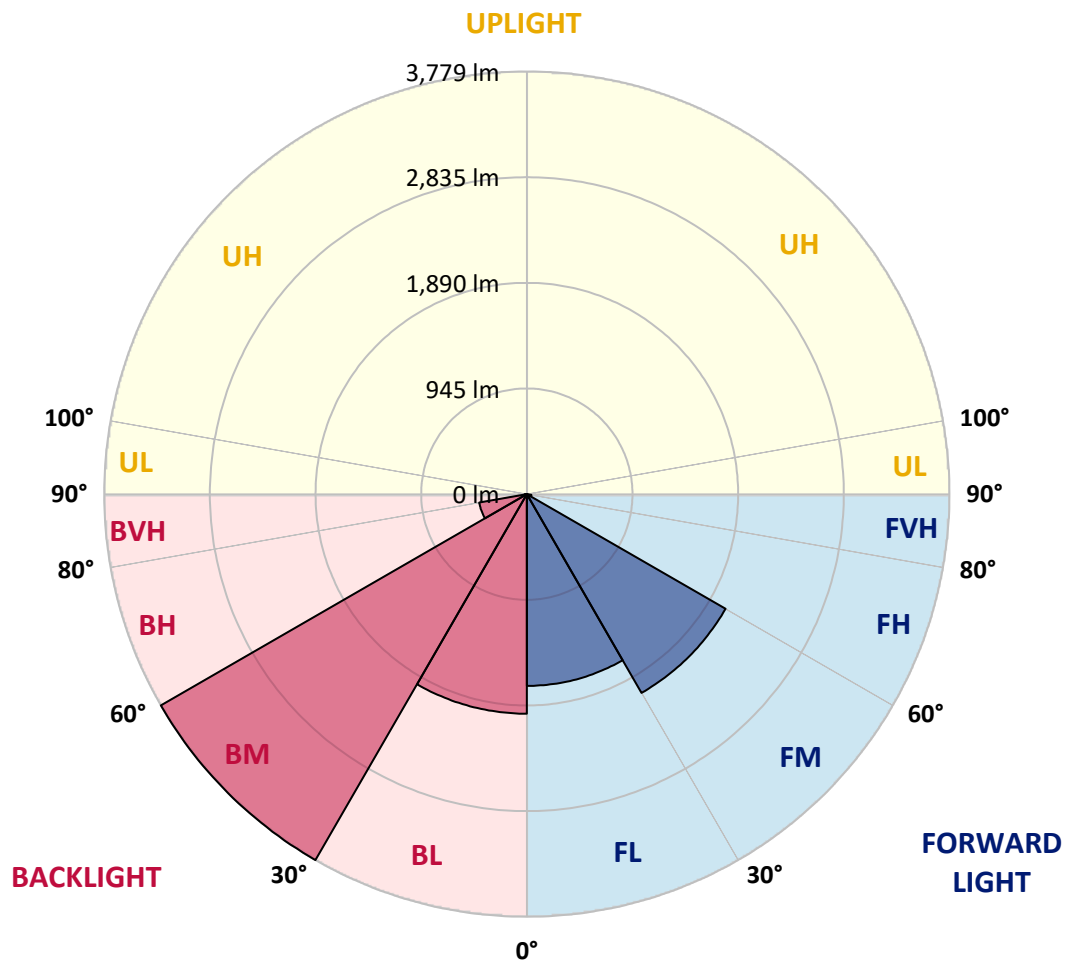
REPORT NUMBER: P638521  
 CATALOG NUMBER: IFLD-M-SA4A-827-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1714.6	17.1			
FM (30°-60°)	2052.4	20.5			
FH (60°-80°)	41.1	0.4			G0/660
FVH (80°-90°)	3.0	0.0			G0/10
BL (0°-30°)	1963.6	19.6	B3/2500		
BM (30°-60°)	3779.4	37.8	B3/5000		
BH (60°-80°)	432.3	4.3	B1/500		G1/500
BVH (80°-90°)	19.1	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: P638521  
 CATALOG NUMBER: IFLD-M-SA4A-827-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2
2.5°	4336.3	4308.4	4281.9	4273.1	4309.9	4349.6	4324.6	4326.0	4317.2	4333.4
5°	4368.7	4330.4	4312.8	4299.6	4305.4	4346.6	4311.3	4324.6	4309.9	4329.0
7.5°	4356.9	4330.4	4312.8	4287.8	4306.9	4355.4	4321.6	4323.1	4315.7	4333.4
10°	4349.6	4330.4	4308.4	4311.3	4333.4	4374.6	4348.1	4362.8	4352.5	4362.8
12.5°	4367.2	4346.6	4334.9	4334.9	4354.0	4401.0	4387.8	4401.0	4396.6	4405.4
15°	4201.0	4220.2	4331.9	4381.9	4420.1	4467.2	4461.3	4474.5	4477.5	4490.7
17.5°	3543.8	3524.6	3515.8	3773.1	4456.9	4602.5	4598.1	4596.6	4581.9	4571.6
20°	3630.5	3623.2	3612.9	3632.0	3708.4	4673.1	4702.5	4521.6	4468.7	4464.3
22.5°	3768.7	3757.0	3718.7	3720.2	3743.7	4062.8	4556.9	4392.2	4374.6	4364.3
25°	3836.4	3812.9	3782.0	3773.1	3780.5	3721.7	4070.2	4265.7	4179.0	4139.3
27.5°	3717.3	3718.7	3693.7	3717.3	3689.3	3424.7	3276.1	4018.7	4015.8	3998.1
30°	3627.6	3623.2	3593.8	3623.2	3430.5	3135.0	3071.7	3748.2	3717.3	3693.7
32.5°	3352.6	3355.5	3440.8	3555.5	3239.4	3005.6	2814.4	3348.2	3640.8	3627.6
35°	2398.3	2404.2	2707.1	3273.2	2949.7	2748.3	2733.5	2893.8	3520.2	3526.1
37.5°	2308.6	2308.6	2301.2	2393.9	2721.8	2643.9	2673.3	2657.1	3224.7	3239.4
40°	2243.9	2230.7	2220.4	2074.8	1892.5	2570.3	2590.9	2517.4	3048.2	3051.2
42.5°	2166.0	2151.3	2154.2	1885.1	1693.9	2388.0	2330.6	2232.1	2754.1	2757.1
45°	2023.3	2048.3	2066.0	1649.8	1635.1	1705.7	2149.8	2088.0	2555.6	2610.0
47.5°	1029.3	1051.4	1613.1	1517.5	1551.3	1516.0	1816.0	1817.5	2126.3	2307.1
50°	933.7	927.8	929.3	885.2	1432.2	1226.3	1313.1	1666.0	1702.8	1961.6
52.5°	870.5	869.0	779.3	692.6	899.9	1079.3	952.8	1205.8	1266.0	1661.6
55°	644.1	691.1	614.6	651.4	563.2	864.6	860.2	1088.1	1108.7	1332.2
57.5°	5.9	7.4	17.6	495.5	389.7	432.3	594.1	742.6	779.3	1038.1
60°	1.5	2.9	7.4	14.7	252.9	266.1	397.0	429.4	483.8	619.1
62.5°	0.0	0.0	2.9	7.4	13.2	108.8	126.5	138.2	213.2	316.1
65°	0.0	0.0	1.5	4.4	7.4	17.6	30.9	64.7	92.6	114.7
67.5°	0.0	0.0	1.5	2.9	5.9	8.8	17.6	25.0	39.7	67.6
70°	0.0	0.0	1.5	2.9	4.4	7.4	11.8	17.6	23.5	33.8
72.5°	0.0	0.0	1.5	2.9	2.9	8.8	8.8	13.2	17.6	22.1
75°	0.0	0.0	1.5	1.5	2.9	5.9	8.8	10.3	11.8	17.6
77.5°	0.0	0.0	1.5	2.9	4.4	5.9	7.4	11.8	10.3	10.3
80°	0.0	0.0	1.5	4.4	4.4	7.4	8.8	11.8	7.4	7.4
82.5°	0.0	0.0	1.5	5.9	4.4	14.7	14.7	16.2	5.9	5.9
85°	0.0	0.0	4.4	2.9	8.8	14.7	13.2	8.8	7.4	4.4
87.5°	0.0	0.0	1.5	1.5	2.9	4.4	10.3	8.8	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: P638521

CATALOG NUMBER: IFLD-M-SA4A-827-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4317.2	0°	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2	4317.2
4290.7	2.5°	4349.6	4330.4	4370.1	4365.7	4346.6	4337.8	4327.5	4318.7	4254.0
4293.7	5°	4351.0	4321.6	4370.1	4361.3	4358.4	4343.7	4334.9	4348.1	4289.3
4305.4	7.5°	4351.0	4321.6	4374.6	4377.5	4373.1	4361.3	4359.9	4368.7	4320.2
4326.0	10°	4380.4	4368.7	4412.8	4417.2	4411.3	4408.4	4401.0	4395.1	4343.7
4396.6	12.5°	4442.2	4418.7	4468.7	4481.9	4477.5	4484.8	4467.2	4476.0	4423.1
4468.7	15°	4517.2	4518.7	4556.9	4586.3	4583.4	4606.9	4580.4	4603.9	4565.7
4551.0	17.5°	4631.9	4648.1	4702.5	4746.6	4762.8	4780.4	4762.8	4770.1	4715.7
4459.8	20°	4511.3	4571.6	4833.3	4914.2	4948.0	4964.2	4934.8	4943.6	4889.2
4348.1	22.5°	4402.5	4480.4	4712.8	4965.7	5070.1	5102.4	5092.1	5090.7	5070.1
4127.5	25°	4242.2	4399.6	4504.0	4771.6	5099.5	5158.3	5164.2	5162.7	5131.8
3992.2	27.5°	4045.2	4080.5	4351.0	4514.3	4893.6	5117.1	5108.3	5065.7	5024.5
3711.4	30°	3793.7	3954.0	4076.1	4336.3	4627.5	4990.7	4990.7	4958.3	4915.7
3611.4	32.5°	3665.8	3873.1	3986.4	4080.5	4329.0	4849.5	4908.3	4874.5	4840.7
3533.5	35°	3598.2	3629.0	3893.7	3979.0	4189.3	4577.5	4815.7	4781.9	4756.9
3326.1	37.5°	3449.7	3521.7	3645.2	3873.1	3937.8	4355.4	4692.2	4674.5	4645.1
3057.0	40°	3118.8	3311.4	3501.1	3717.3	3784.9	4070.2	4542.2	4549.5	4509.8
2770.3	42.5°	2923.2	3054.1	3351.1	3496.7	3679.0	3886.4	4396.6	4408.4	4380.4
2624.7	45°	2693.8	2839.4	3048.2	3312.9	3561.4	3633.5	4139.3	4262.8	4239.3
2335.1	47.5°	2483.6	2601.2	2857.1	3124.7	3399.7	3389.4	3843.7	4076.1	4043.7
2113.0	50°	2185.1	2390.9	2511.5	2757.1	3167.3	3195.3	3529.1	3857.0	3830.5
1795.4	52.5°	1842.5	2101.3	2332.1	2557.1	2932.1	2998.2	3236.4	3633.5	3615.8
1371.9	55°	1610.1	1798.3	2058.6	2239.5	2646.8	2823.2	3017.3	3420.2	3411.4
1127.8	57.5°	1145.5	1508.7	1723.4	1976.3	2191.0	2510.0	2654.1	2986.5	2904.1
624.9	60°	776.4	947.0	1208.7	1480.7	1624.8	1943.9	2077.7	2343.9	2321.8
373.5	62.5°	410.3	567.6	754.3	891.1	995.5	1305.8	1361.6	1648.4	1641.0
150.0	65°	180.9	239.7	408.8	479.4	586.7	730.8	779.3	882.3	857.3
73.5	67.5°	94.1	142.6	230.9	283.8	357.3	411.7	451.4	483.8	504.4
48.5	70°	57.3	104.4	142.6	197.0	245.6	289.7	320.6	364.7	391.1
25.0	72.5°	42.6	66.2	98.5	151.5	177.9	229.4	260.3	292.6	316.1
20.6	75°	23.5	44.1	79.4	119.1	142.6	186.7	214.7	236.7	244.1
11.8	77.5°	14.7	33.8	66.2	92.6	111.8	151.5	144.1	164.7	182.3
8.8	80°	10.3	25.0	51.5	76.5	77.9	97.0	114.7	132.3	144.1
5.9	82.5°	7.4	20.6	38.2	58.8	51.5	75.0	89.7	102.9	75.0
4.4	85°	5.9	14.7	19.1	35.3	29.4	52.9	45.6	44.1	29.4
2.9	87.5°	4.4	7.4	13.2	16.2	11.8	11.8	14.7	17.6	14.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
4317.2  
4209.9  
4239.3  
4264.3  
4301.0  
4376.0  
4502.5  
4668.6  
4851.0  
5003.9  
**5084.8**  
4992.1  
4899.5  
4812.7  
4721.6  
4615.7  
4501.0  
4377.5  
4242.2  
4067.2  
3834.9  
3627.6  
3421.7  
2895.3  
2323.3  
1642.5  
847.0  
504.4  
392.6  
320.6  
239.7  
185.3  
145.6  
54.4  
29.4  
14.7  
0.0

(END OF REPORT)