

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: P638427

Luminaire Tested: **IFLD-S-SA3D-740-U-LAM-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P638427  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA3D-740-U-LAM-VI  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/  
Lambertian distribution lens and Visor  
Light Source: (48) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 17178.1 lumens  
Efficiency: N/A  
Efficacy: 93.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G2

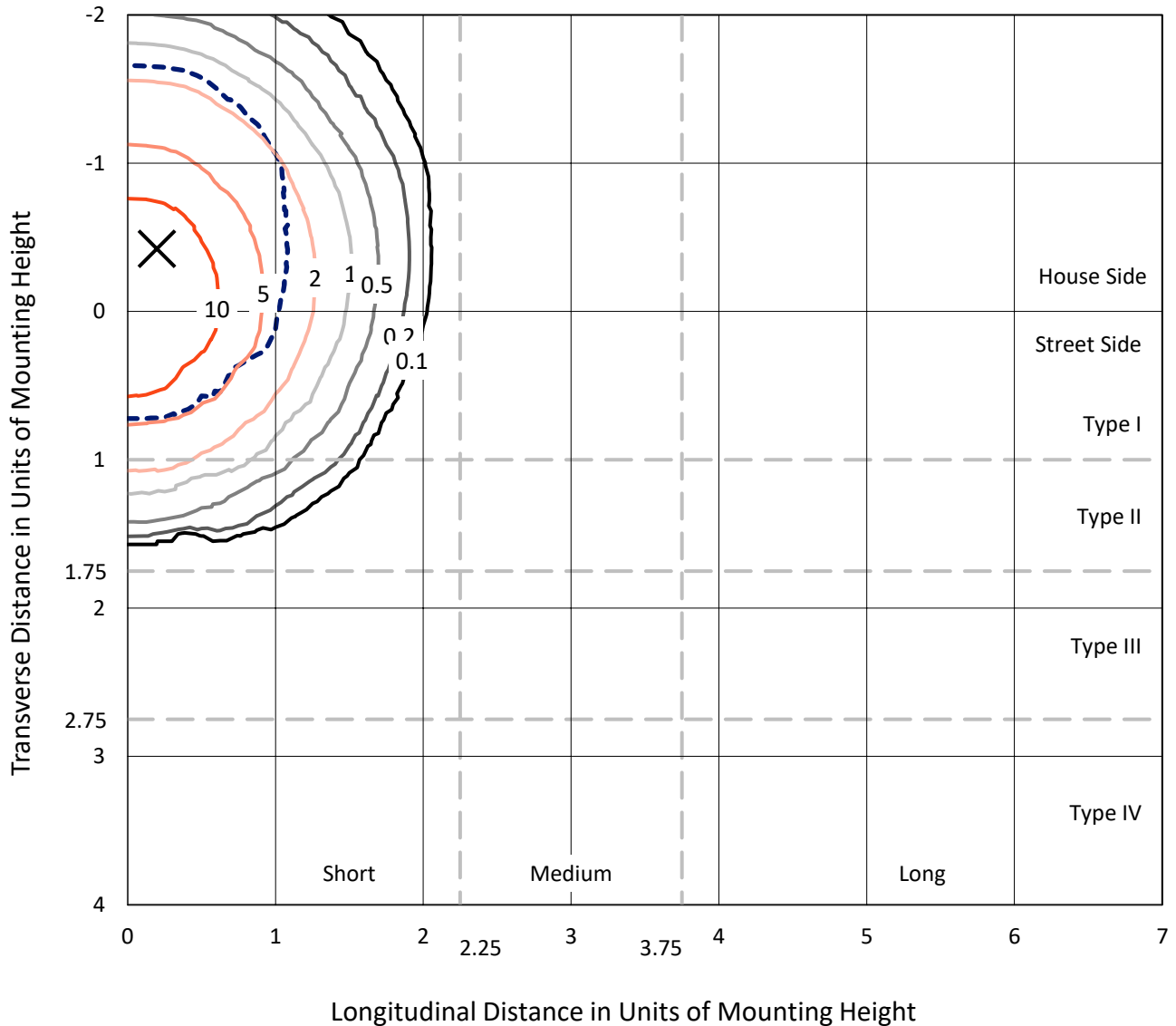
Input Watts (W): 184.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P638427  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-LAM-VI

### Iso-Footcandle Lines of Horizontal Illumination

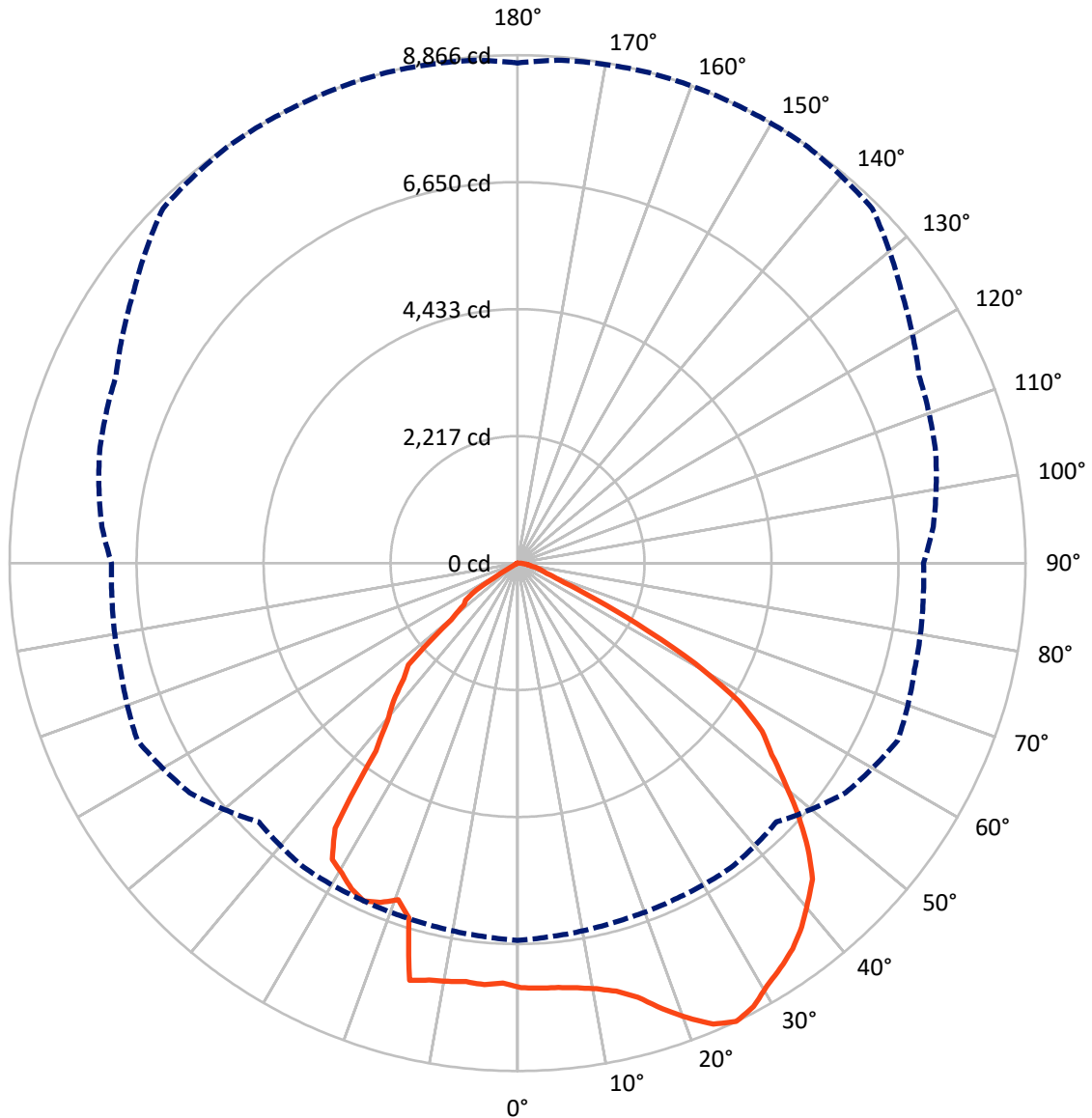
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.5 fc  
 Type I - Short - N/A

REPORT NUMBER: P638427  
CATALOG NUMBER: IFLD-S-SA3D-740-U-LAM-VI

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P638427  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-LAM-VI

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10635.0	0.0	10635.0
	% Fixture	61.9	0.0	61.9
<b>Street Side</b>	Lumens	6543.1	0.0	6543.1
	% Fixture	38.1	0.0	38.1
<b>Total</b>	Lumens	17178.1	0.0	17178.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	711.1	4.1
10°-20°	2171.3	12.6
20°-30°	3432.7	20.0
30°-40°	3877.5	22.6
40°-50°	3631.3	21.1
50°-60°	2503.6	14.6
60°-70°	672.6	3.9
70°-80°	140.2	0.8
80°-90°	37.9	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°	17178.1	100.0
0°-180°	17178.1	100.0



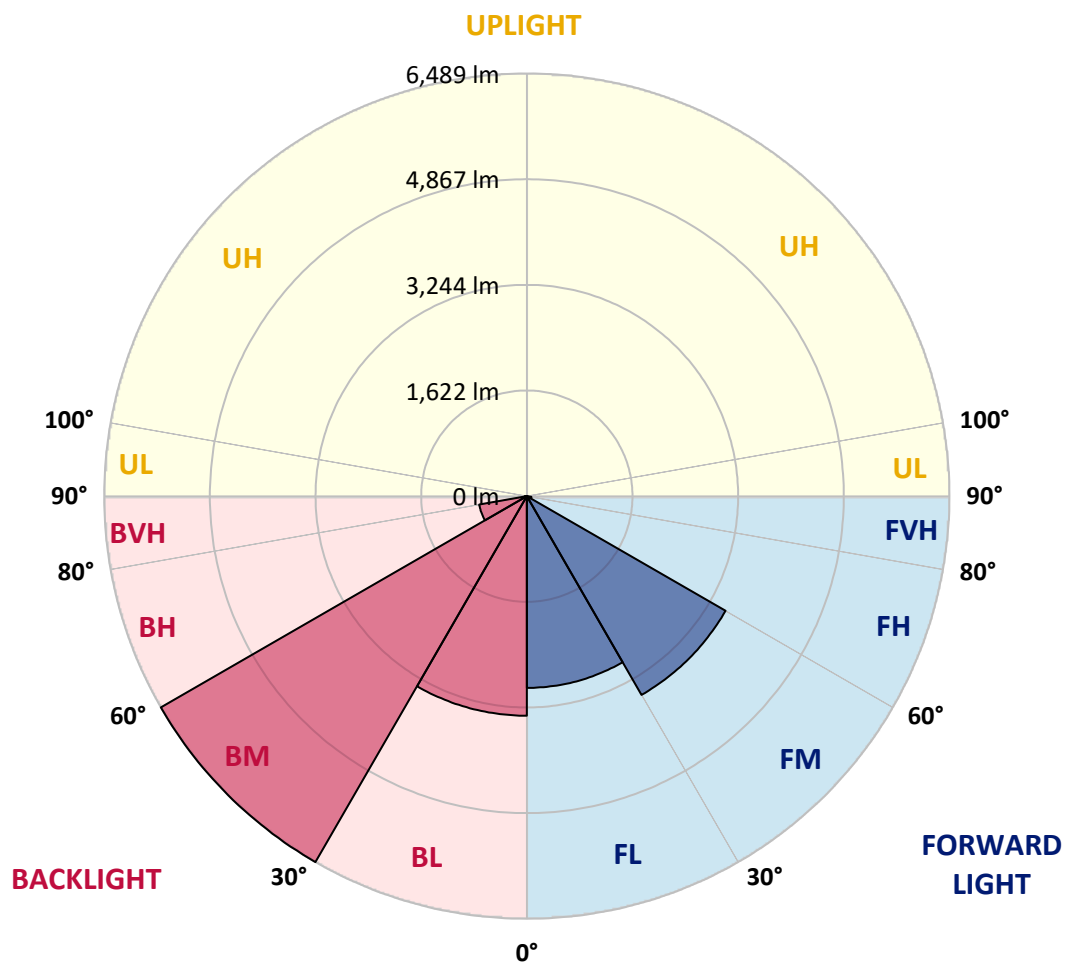
REPORT NUMBER: P638427  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-LAM-VI

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2943.8	17.1			
FM (30°-60°)	3523.6	20.5			
FH (60°-80°)	70.6	0.4			G0/660
FVH (80°-90°)	5.1	0.0			G0/10
BL (0°-30°)	3371.2	19.6	B4/5000		
BM (30°-60°)	6488.8	37.8	B4/8500		
BH (60°-80°)	742.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G2**

Type I Short





REPORT NUMBER: P638427  
 CATALOG NUMBER: IFLD-S-SA3D-740-U-LAM-VI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7412.1	7412.1	7412.1	7412.1	7412.1	7412.1	7412.1	7412.1	7412.1	7412.1
2.5°	7444.9	7396.9	7351.5	7336.3	7399.4	7467.6	7424.7	7427.2	7412.1	7439.8
5°	7500.4	7434.8	7404.5	7381.8	7391.9	7462.5	7402.0	7424.7	7399.4	7432.2
7.5°	7480.2	7434.8	7404.5	7361.6	7394.4	7477.7	7419.6	7422.2	7409.5	7439.8
10°	7467.6	7434.8	7396.9	7402.0	7439.8	7510.5	7465.1	7490.3	7472.6	7490.3
12.5°	7497.9	7462.5	7442.3	7442.3	7475.2	7556.0	7533.2	7556.0	7548.4	7563.5
15°	7212.6	7245.4	7437.3	7523.1	7588.8	7669.6	7659.5	7682.2	7687.2	7709.9
17.5°	6084.1	6051.3	6036.2	6478.0	7651.9	7901.8	7894.2	7891.7	7866.5	7848.8
20°	6233.1	6220.5	6202.8	6235.6	6366.9	8023.0	8073.5	7763.0	7672.1	7664.5
22.5°	6470.4	6450.2	6384.6	6387.1	6427.5	6975.3	7823.6	7540.8	7510.5	7492.8
25°	6586.5	6546.1	6493.1	6478.0	6490.6	6389.6	6987.9	7323.7	7174.7	7106.6
27.5°	6382.0	6384.6	6341.6	6382.0	6334.1	5879.7	5624.7	6899.6	6894.5	6864.2
30°	6228.0	6220.5	6170.0	6220.5	5889.8	5382.3	5273.8	6435.1	6382.0	6341.6
32.5°	5756.0	5761.0	5907.4	6104.3	5561.6	5160.2	4832.0	5748.4	6250.8	6228.0
35°	4117.5	4127.6	4647.7	5619.6	5064.2	4718.4	4693.1	4968.3	6043.8	6053.8
37.5°	3963.5	3963.5	3950.9	4110.0	4672.9	4539.1	4589.6	4561.8	5536.3	5561.6
40°	3852.4	3829.7	3812.1	3562.1	3249.1	4412.9	4448.2	4322.0	5233.4	5238.4
42.5°	3718.6	3693.4	3698.5	3236.5	2908.3	4099.9	4001.4	3832.3	4728.5	4733.5
45°	3473.8	3516.7	3547.0	2832.5	2807.3	2928.5	3690.9	3584.8	4387.7	4481.1
47.5°	1767.2	1805.0	2769.4	2605.3	2663.4	2602.8	3117.8	3120.3	3650.5	3961.0
50°	1603.1	1593.0	1595.5	1519.8	2458.9	2105.5	2254.4	2860.3	2923.4	3367.7
52.5°	1494.5	1492.0	1338.0	1189.1	1545.0	1853.0	1635.9	2070.1	2173.6	2852.7
55°	1105.7	1186.5	1055.3	1118.4	966.9	1484.4	1476.9	1868.2	1903.5	2287.2
57.5°	10.1	12.6	30.3	850.8	669.0	742.2	1019.9	1274.9	1338.0	1782.3
60°	2.5	5.0	12.6	25.2	434.2	456.9	681.6	737.2	830.6	1062.8
62.5°	0.0	0.0	5.0	12.6	22.7	186.8	217.1	237.3	366.1	542.8
65°	0.0	0.0	2.5	7.6	12.6	30.3	53.0	111.1	159.0	196.9
67.5°	0.0	0.0	2.5	5.0	10.1	15.1	30.3	42.9	68.2	116.1
70°	0.0	0.0	2.5	5.0	7.6	12.6	20.2	30.3	40.4	58.1
72.5°	0.0	0.0	2.5	5.0	5.0	15.1	15.1	22.7	30.3	37.9
75°	0.0	0.0	2.5	2.5	5.0	10.1	15.1	17.7	20.2	30.3
77.5°	0.0	0.0	2.5	5.0	7.6	10.1	12.6	20.2	17.7	17.7
80°	0.0	0.0	2.5	7.6	7.6	12.6	15.1	20.2	12.6	12.6
82.5°	0.0	0.0	2.5	10.1	7.6	25.2	25.2	27.8	10.1	10.1
85°	0.0	0.0	7.6	5.0	15.1	25.2	22.7	15.1	12.6	7.6
87.5°	0.0	0.0	2.5	2.5	5.0	7.6	17.7	15.1	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638427

CATALOG NUMBER: IFLD-S-SA3D-740-U-LAM-VI

**CANDELA DISTRIBUTION (continued):**

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
7412.1	0°	7412.1	7412.1	7412.1	7412.1	7412.1	7412.1	7412.1	7412.1	7412.1
7366.6	2.5°	7467.6	7434.8	7502.9	7495.4	7462.5	7447.4	7429.7	7414.6	7303.5
7371.7	5°	7470.1	7419.6	7502.9	7487.8	7482.7	7457.5	7442.3	7465.1	7364.1
7391.9	7.5°	7470.1	7419.6	7510.5	7515.6	7508.0	7487.8	7485.3	7500.4	7417.1
7427.2	10°	7520.6	7500.4	7576.1	7583.7	7573.6	7568.6	7556.0	7545.9	7457.5
7548.4	12.5°	7626.6	7586.2	7672.1	7694.8	7687.2	7699.9	7669.6	7684.7	7593.8
7672.1	15°	7755.4	7757.9	7823.6	7874.0	7869.0	7909.4	7863.9	7904.3	7838.7
7813.5	17.5°	7952.3	7980.1	8073.5	8149.2	8177.0	8207.3	8177.0	8189.6	8096.2
7656.9	20°	7745.3	7848.8	8298.2	8437.0	8495.1	8522.9	8472.4	8487.5	8394.1
7465.1	22.5°	7558.5	7692.3	8091.2	8525.4	8704.6	8760.2	8742.5	8740.0	8704.6
7086.4	25°	7283.3	7553.4	7732.7	8192.1	8755.1	8856.1	8866.2	8863.7	8810.6
6854.1	27.5°	6945.0	7005.6	7470.1	7750.3	8401.7	8785.4	8770.3	8697.0	8626.4
6371.9	30°	6513.3	6788.5	6998.0	7444.9	7944.7	8568.3	8568.3	8512.8	8439.5
6200.3	32.5°	6293.7	6649.6	6844.0	7005.6	7432.2	8325.9	8426.9	8368.9	8310.8
6066.5	35°	6177.6	6230.6	6685.0	6831.4	7192.4	7858.9	8267.9	8209.8	8166.9
5710.5	37.5°	5922.6	6046.3	6258.3	6649.6	6760.7	7477.7	8055.8	8025.5	7975.0
5248.5	40°	5354.6	5685.3	6010.9	6382.0	6498.2	6987.9	7798.3	7810.9	7742.8
4756.2	42.5°	5018.8	5243.5	5753.4	6003.4	6316.4	6672.4	7548.4	7568.6	7520.6
4506.3	45°	4625.0	4874.9	5233.4	5687.8	6114.4	6238.1	7106.6	7318.6	7278.3
4009.0	47.5°	4263.9	4465.9	4905.2	5364.6	5836.7	5819.1	6599.2	6998.0	6942.5
3627.8	50°	3751.5	4104.9	4311.9	4733.5	5437.9	5485.8	6058.9	6621.9	6576.4
3082.5	52.5°	3163.2	3607.6	4003.9	4390.2	5033.9	5147.5	5556.5	6238.1	6207.8
2355.4	55°	2764.4	3087.5	3534.4	3844.9	4544.2	4847.1	5180.4	5872.1	5856.9
1936.3	57.5°	1966.6	2590.2	2958.8	3393.0	3761.6	4309.4	4556.8	5127.3	4986.0
1072.9	60°	1333.0	1625.8	2075.2	2542.2	2789.6	3337.4	3567.2	4024.1	3986.3
641.2	62.5°	704.3	974.5	1295.1	1529.9	1709.1	2241.8	2337.7	2830.0	2817.4
257.5	65°	310.5	411.5	701.8	823.0	1007.3	1254.7	1338.0	1514.7	1471.8
126.2	67.5°	161.6	244.9	396.4	487.2	613.5	706.9	775.0	830.6	865.9
83.3	70°	98.5	179.2	244.9	338.3	421.6	497.3	550.3	626.1	671.5
42.9	72.5°	73.2	113.6	169.1	260.0	305.5	393.8	446.8	502.4	542.8
35.3	75°	40.4	75.7	136.3	204.5	244.9	320.6	368.6	406.5	419.1
20.2	77.5°	25.2	58.1	113.6	159.0	191.9	260.0	247.4	282.7	313.0
15.1	80°	17.7	42.9	88.4	131.3	133.8	166.6	196.9	227.2	247.4
10.1	82.5°	12.6	35.3	65.6	101.0	88.4	128.8	154.0	176.7	128.8
7.6	85°	10.1	25.2	32.8	60.6	50.5	90.9	78.3	75.7	50.5
5.0	87.5°	7.6	12.6	22.7	27.8	20.2	20.2	25.2	30.3	25.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°  
7412.1  
7227.8  
7278.3  
7321.2  
7384.3  
7513.0  
7730.1  
8015.4  
8328.5  
8591.0  
8729.9  
8570.8  
8411.8  
8262.8  
8106.3  
7924.5  
7727.6  
7515.6  
7283.3  
6982.9  
6584.0  
6228.0  
5874.6  
4970.8  
3988.8  
2819.9  
1454.1  
865.9  
674.1  
550.3  
411.5  
318.1  
249.9  
93.4  
50.5  
25.2  
0.0

(END OF REPORT)