

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: P638456

Luminaire Tested: **IFLD-S-SA3D-750-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638456
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-750-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17571.5 lumens
Efficiency: N/A
Efficacy: 95.4 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

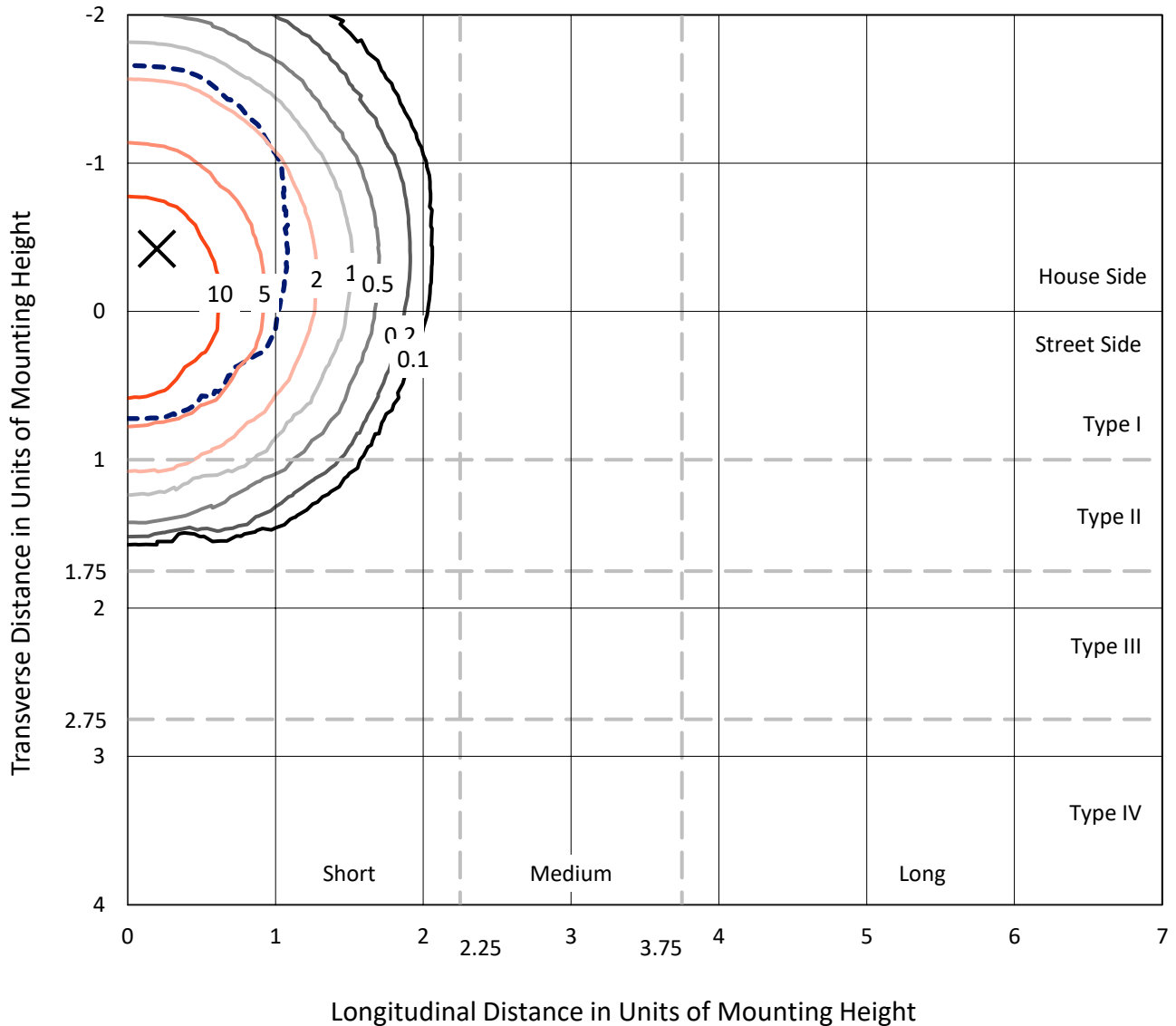
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

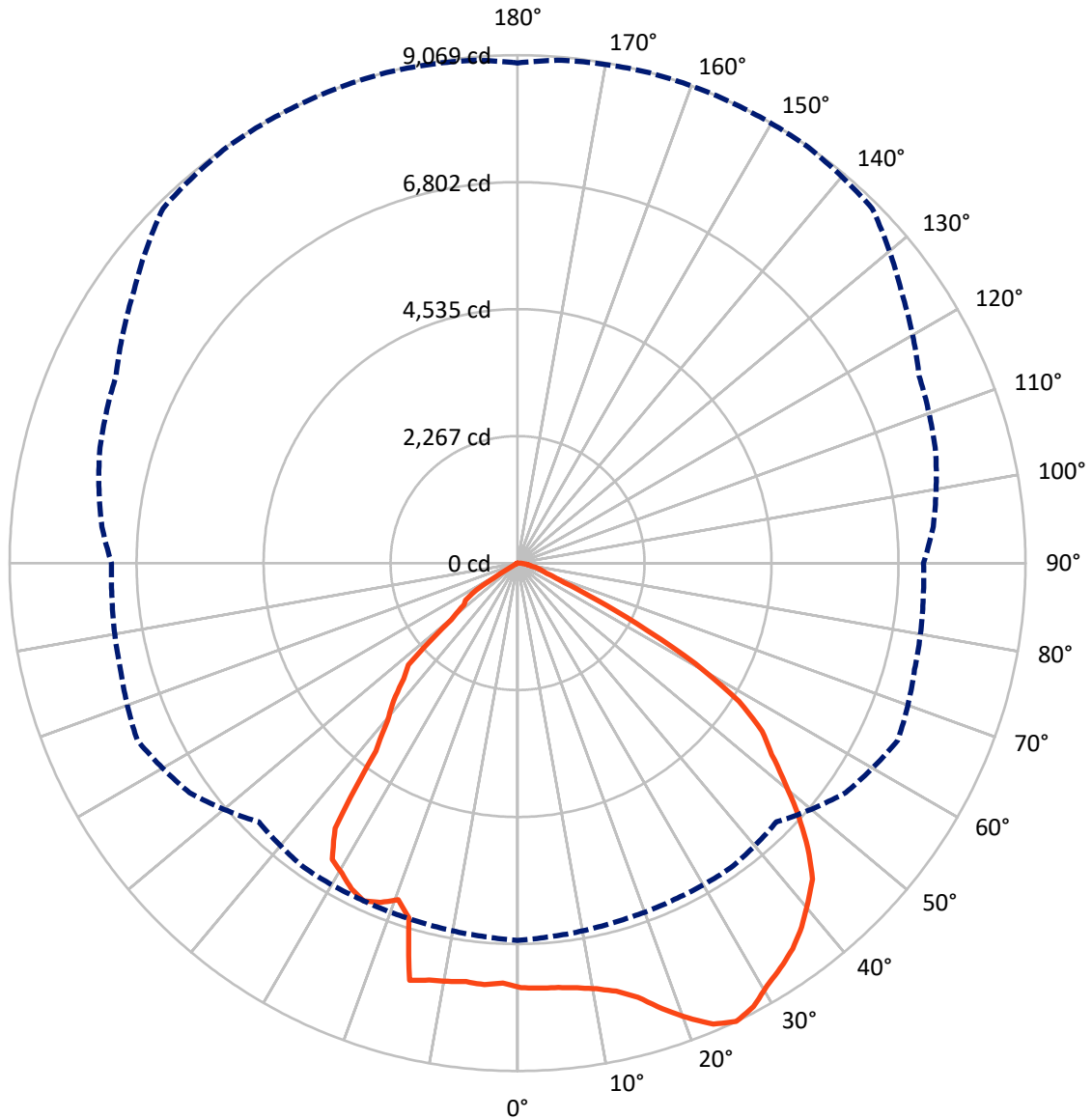
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19 fc
 Type I - Short - N/A

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CATALOG NUMBER: IFLD-S-SA3D-750-U-LAM-VI

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	10878.6	0.0	10878.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6692.9	0.0	6692.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	17571.5	0.0	17571.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	727.4	4.1
10°-20°	2221.0	12.6
20°-30°	3511.3	20.0
30°-40°	3966.3	22.6
40°-50°	3714.5	21.1
50°-60°	2560.9	14.6
60°-70°	688.0	3.9
70°-80°	143.4	0.8
80°-90°	38.8	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°	17571.5	100.0
0°-180°	17571.5	100.0



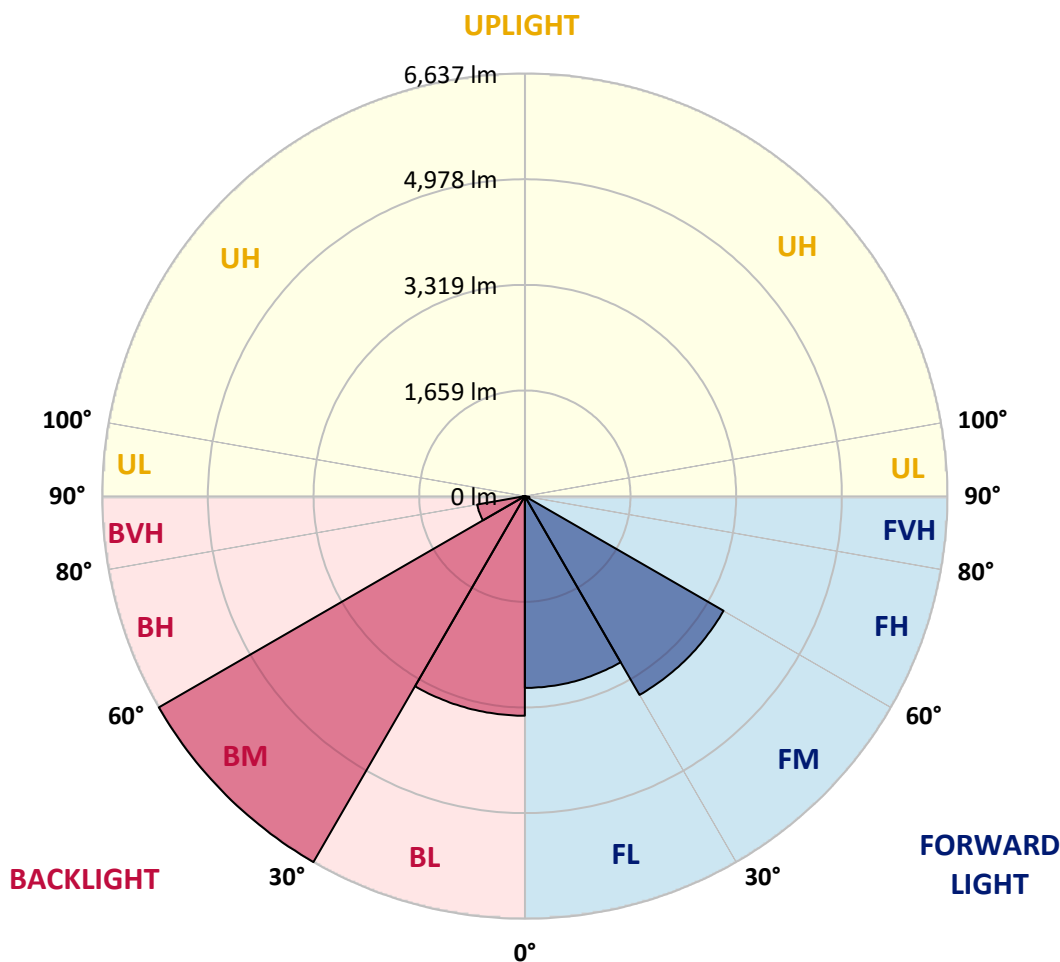
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3011.2	17.1			
FM (30°-60°)	3604.3	20.5			
FH (60°-80°)	72.2	0.4			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	3448.4	19.6	B4/5000		
BM (30°-60°)	6637.4	37.8	B4/8500		
BH (60°-80°)	759.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.6	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	7581.8	7581.8	7581.8	7581.8	7581.8	7581.8	7581.8	7581.8	7581.8	7581.8
2.5°	7615.4	7566.3	7519.8	7504.3	7568.9	7638.6	7594.7	7597.3	7581.8	7610.2
5°	7672.2	7605.0	7574.0	7550.8	7561.1	7633.4	7571.5	7594.7	7568.9	7602.4
7.5°	7651.5	7605.0	7574.0	7530.1	7563.7	7648.9	7589.5	7592.1	7579.2	7610.2
10°	7638.6	7605.0	7566.3	7571.5	7610.2	7682.5	7636.0	7661.8	7643.8	7661.8
12.5°	7669.6	7633.4	7612.8	7612.8	7646.3	7729.0	7705.7	7729.0	7721.2	7736.7
15°	7377.8	7411.4	7607.6	7695.4	7762.6	7845.2	7834.9	7858.1	7863.3	7886.5
17.5°	6223.5	6189.9	6174.4	6626.3	7827.1	8082.8	8075.0	8072.4	8046.6	8028.5
20°	6375.8	6362.9	6344.8	6378.4	6512.7	8206.7	8258.4	7940.7	7847.8	7840.0
22.5°	6618.6	6597.9	6530.8	6533.4	6574.7	7135.0	8002.7	7713.5	7682.5	7664.4
25°	6737.4	6696.0	6641.8	6626.3	6639.2	6535.9	7148.0	7491.4	7339.0	7269.3
27.5°	6528.2	6530.8	6486.9	6528.2	6479.1	6014.3	5753.5	7057.6	7052.4	7021.4
30°	6370.7	6362.9	6311.3	6362.9	6024.6	5505.6	5394.5	6582.4	6528.2	6486.9
32.5°	5887.8	5892.9	6042.7	6244.1	5688.9	5278.3	4942.6	5880.0	6393.9	6370.7
35°	4211.8	4222.1	4754.1	5748.3	5180.2	4826.4	4800.6	5082.1	6182.2	6192.5
37.5°	4054.3	4054.3	4041.4	4204.1	4779.9	4643.1	4694.7	4666.3	5663.1	5688.9
40°	3940.7	3917.4	3899.4	3643.7	3323.5	4514.0	4550.1	4421.0	5353.2	5358.4
42.5°	3803.8	3778.0	3783.1	3310.6	2974.9	4193.7	4093.0	3920.0	4836.7	4841.9
45°	3553.3	3597.2	3628.2	2897.4	2871.6	2995.5	3775.4	3666.9	4488.1	4583.7
47.5°	1807.6	1846.4	2832.8	2665.0	2724.4	2662.4	3189.2	3191.8	3734.1	4051.7
50°	1639.8	1629.5	1632.0	1554.6	2515.2	2153.7	2306.0	2925.8	2990.4	3444.9
52.5°	1528.8	1526.2	1368.6	1216.3	1580.4	1895.4	1673.4	2117.5	2223.4	2918.1
55°	1131.1	1213.7	1079.4	1144.0	989.0	1518.4	1510.7	1910.9	1947.1	2339.6
57.5°	10.3	12.9	31.0	870.3	684.3	759.2	1043.3	1304.1	1368.6	1823.1
60°	2.6	5.2	12.9	25.8	444.2	467.4	697.2	754.0	849.6	1087.2
62.5°	0.0	0.0	5.2	12.9	23.2	191.1	222.1	242.7	374.4	555.2
65°	0.0	0.0	2.6	7.7	12.9	31.0	54.2	113.6	162.7	201.4
67.5°	0.0	0.0	2.6	5.2	10.3	15.5	31.0	43.9	69.7	118.8
70°	0.0	0.0	2.6	5.2	7.7	12.9	20.7	31.0	41.3	59.4
72.5°	0.0	0.0	2.6	5.2	5.2	15.5	15.5	23.2	31.0	38.7
75°	0.0	0.0	2.6	2.6	5.2	10.3	15.5	18.1	20.7	31.0
77.5°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	20.7	18.1	18.1
80°	0.0	0.0	2.6	7.7	7.7	12.9	15.5	20.7	12.9	12.9
82.5°	0.0	0.0	2.6	10.3	7.7	25.8	25.8	28.4	10.3	10.3
85°	0.0	0.0	7.7	5.2	15.5	25.8	23.2	15.5	12.9	7.7
87.5°	0.0	0.0	2.6	2.6	5.2	7.7	18.1	15.5	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638456

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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
7581.8	0°	7581.8	7581.8	7581.8	7581.8	7581.8	7581.8	7581.8	7581.8	7581.8
7535.3	2.5°	7638.6	7605.0	7674.8	7667.0	7633.4	7617.9	7599.9	7584.4	7470.7
7540.5	5°	7641.2	7589.5	7674.8	7659.3	7654.1	7628.3	7612.8	7636.0	7532.7
7561.1	7.5°	7641.2	7589.5	7682.5	7687.7	7679.9	7659.3	7656.7	7672.2	7587.0
7597.3	10°	7692.8	7672.2	7749.6	7757.4	7747.1	7741.9	7729.0	7718.7	7628.3
7721.2	12.5°	7801.3	7760.0	7847.8	7871.0	7863.3	7876.2	7845.2	7860.7	7767.7
7847.8	15°	7933.0	7935.6	8002.7	8054.4	8049.2	8090.5	8044.0	8085.3	8018.2
7992.4	17.5°	8134.4	8162.8	8258.4	8335.8	8364.2	8395.2	8364.2	8377.2	8281.6
7832.3	20°	7922.7	8028.5	8488.2	8630.2	8689.6	8718.0	8666.4	8681.9	8586.3
7636.0	22.5°	7731.6	7868.4	8276.4	8720.6	8904.0	8960.8	8942.7	8940.1	8904.0
7248.7	25°	7450.1	7726.4	7909.7	8379.7	8955.6	9058.9	9069.2	9066.6	9012.4
7011.1	27.5°	7104.1	7166.0	7641.2	7927.8	8594.1	8986.6	8971.1	8896.2	8823.9
6517.9	30°	6662.5	6943.9	7158.3	7615.4	8126.7	8764.5	8764.5	8707.7	8632.8
6342.3	32.5°	6437.8	6801.9	7000.8	7166.0	7602.4	8516.6	8619.9	8560.5	8501.1
6205.4	35°	6319.0	6373.2	6838.1	6987.8	7357.1	8038.9	8457.2	8397.8	8353.9
5841.3	37.5°	6058.2	6184.7	6401.7	6801.9	6915.5	7648.9	8240.3	8209.3	8157.7
5368.7	40°	5477.2	5815.5	6148.6	6528.2	6647.0	7148.0	7976.9	7989.8	7920.1
4865.2	42.5°	5133.7	5363.5	5885.2	6140.8	6461.0	6825.2	7721.2	7741.9	7692.8
4609.5	45°	4730.9	4986.5	5353.2	5818.0	6254.5	6381.0	7269.3	7486.2	7444.9
4100.8	47.5°	4361.6	4568.2	5017.5	5487.5	5970.4	5952.3	6750.3	7158.3	7101.5
3710.8	50°	3837.4	4198.9	4410.7	4841.9	5562.4	5611.5	6197.6	6773.5	6727.0
3153.1	52.5°	3235.7	3690.2	4095.6	4490.7	5149.2	5265.4	5683.8	6381.0	6350.0
2409.3	55°	2827.7	3158.2	3615.3	3932.9	4648.2	4958.1	5299.0	6006.6	5991.1
1980.7	57.5°	2011.7	2649.5	3026.5	3470.7	3847.7	4408.1	4661.1	5244.8	5100.1
1097.5	60°	1363.5	1663.0	2122.7	2600.4	2853.5	3413.9	3648.9	4116.3	4077.5
655.9	62.5°	720.5	996.8	1324.7	1564.9	1748.3	2293.1	2391.3	2894.8	2881.9
263.4	65°	317.6	420.9	717.9	841.8	1030.4	1283.4	1368.6	1549.4	1505.5
129.1	67.5°	165.3	250.5	405.4	498.4	627.5	723.1	792.8	849.6	885.7
85.2	70°	100.7	183.3	250.5	346.0	431.3	508.7	563.0	640.4	686.9
43.9	72.5°	74.9	116.2	173.0	266.0	312.5	402.8	457.1	513.9	555.2
36.2	75°	41.3	77.5	139.4	209.2	250.5	328.0	377.0	415.8	428.7
20.7	77.5°	25.8	59.4	116.2	162.7	196.3	266.0	253.1	289.2	320.2
15.5	80°	18.1	43.9	90.4	134.3	136.9	170.4	201.4	232.4	253.1
10.3	82.5°	12.9	36.2	67.1	103.3	90.4	131.7	157.5	180.8	131.7
7.7	85°	10.3	25.8	33.6	62.0	51.6	93.0	80.1	77.5	51.6
5.2	87.5°	7.7	12.9	23.2	28.4	20.7	20.7	25.8	31.0	25.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7581.8
7393.3
7444.9
7488.8
7553.4
7685.1
7907.2
8199.0
8519.2
8787.7
8929.8
8767.1
8604.4
8452.0
8291.9
8106.0
7904.6
7687.7
7450.1
7142.8
6734.8
6370.7
6009.1
5084.7
4080.1
2884.5
1487.4
885.7
689.5
563.0
420.9
325.4
255.7
95.5
51.6
25.8
0.0

(END OF REPORT)