

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: P638349

Luminaire Tested: **IFLD-M-SA4C-727-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638349
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4C-727-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17524.8 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

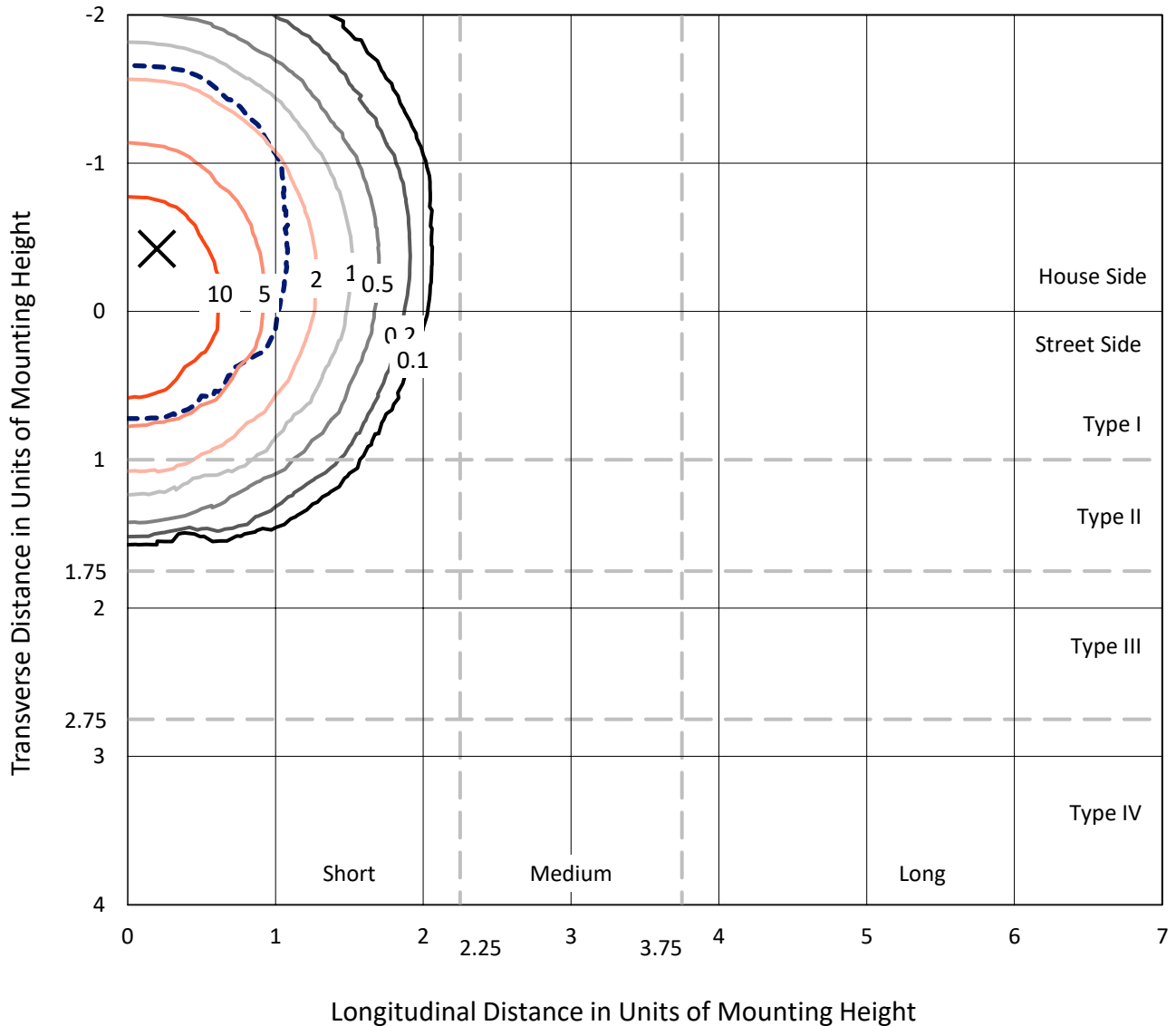
Input Watts (W): 218.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

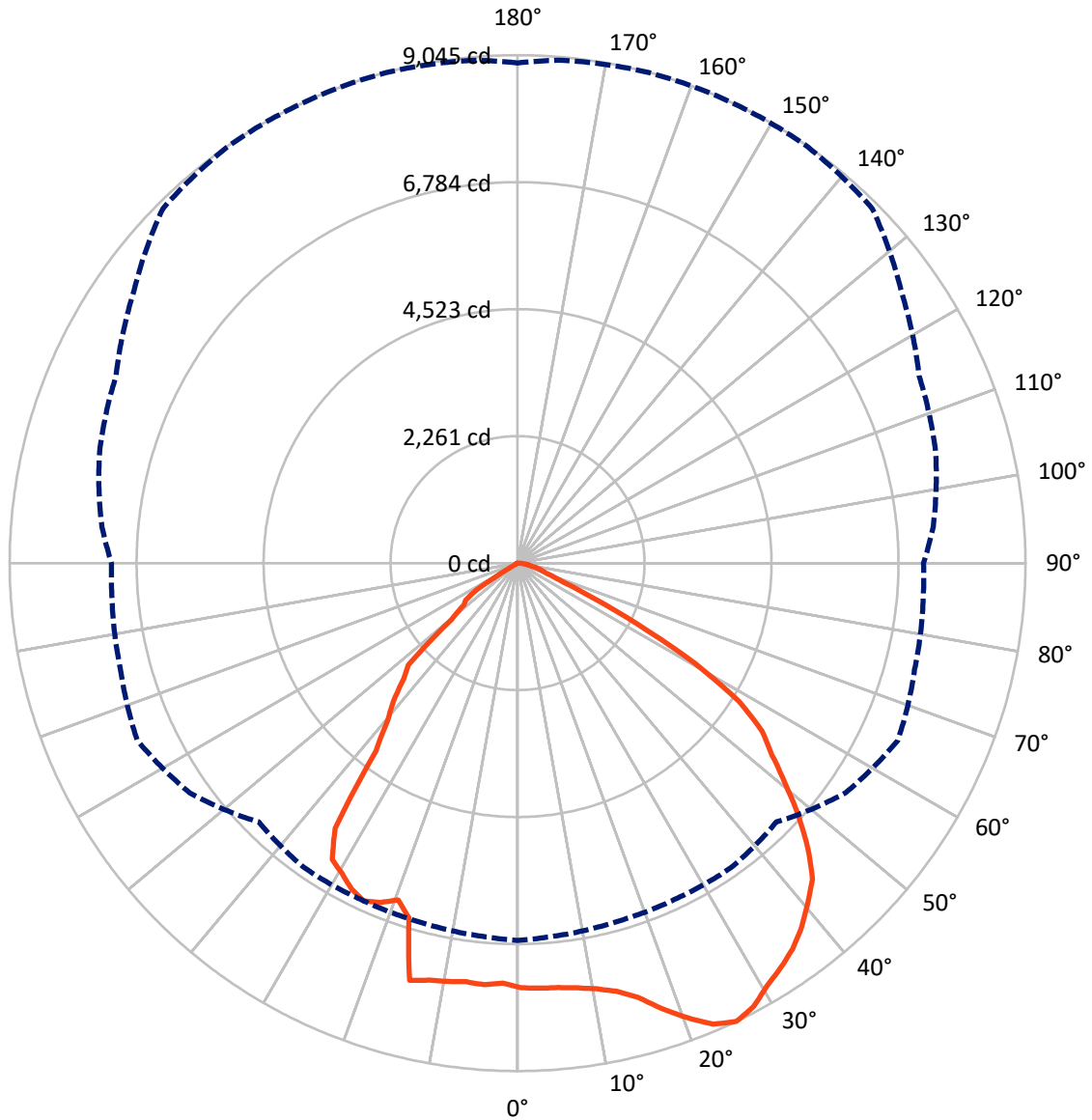
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.9 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
House Side	Lumens	10849.7	0.0	10849.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6675.2	0.0	6675.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	17524.8	0.0	17524.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	725.4	4.1
10°-20°	2215.1	12.6
20°-30°	3501.9	20.0
30°-40°	3955.7	22.6
40°-50°	3704.6	21.1
50°-60°	2554.1	14.6
60°-70°	686.2	3.9
70°-80°	143.0	0.8
80°-90°	38.7	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°	17524.8	100.0
0°-180°	17524.8	100.0



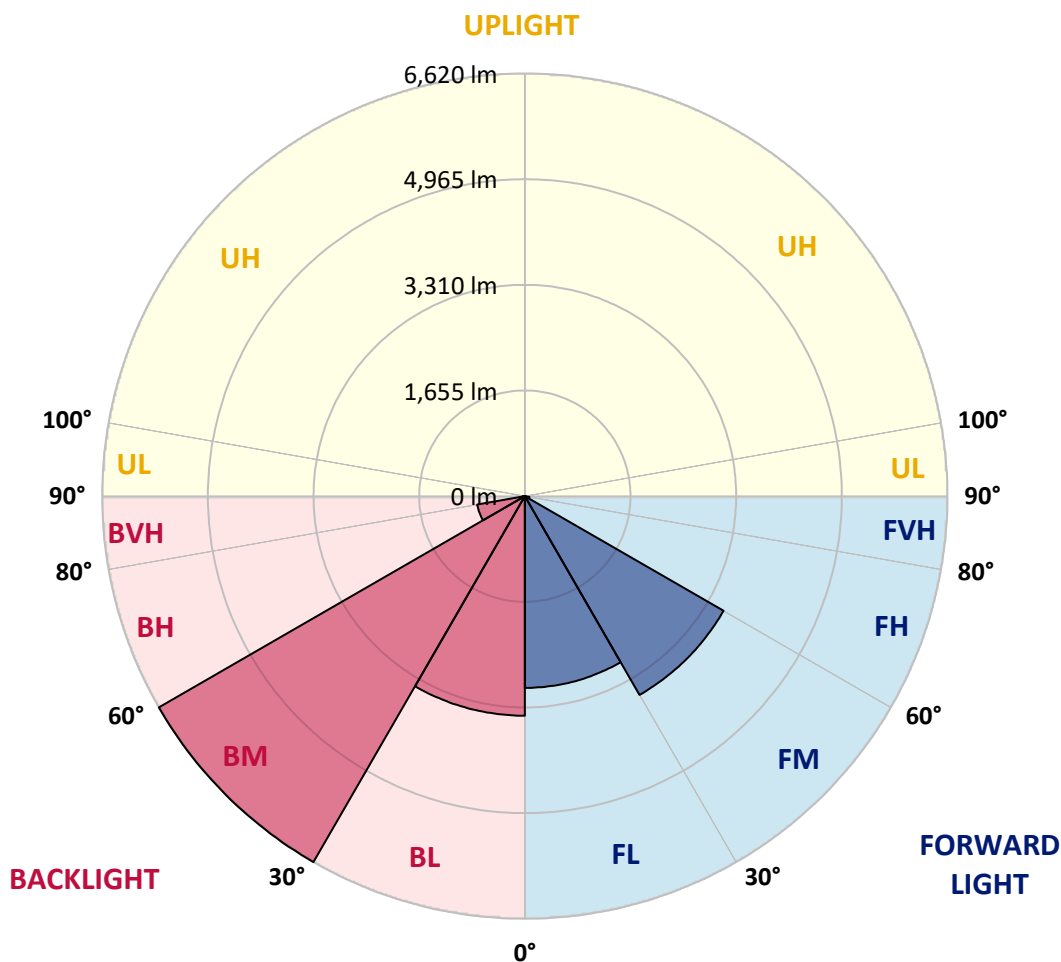
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3003.2	17.1			
FM (30°-60°)	3594.7	20.5			
FH (60°-80°)	72.0	0.4			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	3439.3	19.6	B4/5000		
BM (30°-60°)	6619.7	37.8	B4/8500		
BH (60°-80°)	757.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.5	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°	7561.7	7561.7	7561.7	7561.7	7561.7	7561.7	7561.7	7561.7	7561.7	7561.7
2.5°	7595.1	7546.2	7499.8	7484.4	7548.8	7618.3	7574.5	7577.1	7561.7	7590.0
5°	7651.8	7584.8	7553.9	7530.7	7541.0	7613.2	7551.3	7574.5	7548.8	7582.3
7.5°	7631.2	7584.8	7553.9	7510.1	7543.6	7628.6	7569.4	7572.0	7559.1	7590.0
10°	7618.3	7584.8	7546.2	7551.3	7590.0	7662.1	7615.7	7641.5	7623.5	7641.5
12.5°	7649.2	7613.2	7592.6	7592.6	7626.0	7708.5	7685.3	7708.5	7700.7	7716.2
15°	7358.2	7391.7	7587.4	7675.0	7741.9	7824.4	7814.0	7837.2	7842.4	7865.6
17.5°	6206.9	6173.5	6158.0	6608.7	7806.3	8061.3	8053.6	8051.0	8025.2	8007.2
20°	6358.9	6346.0	6328.0	6361.5	6495.4	8184.9	8236.4	7919.6	7826.9	7819.2
22.5°	6601.0	6580.4	6513.4	6516.0	6557.2	7116.1	7981.5	7693.0	7662.1	7644.1
25°	6719.5	6678.3	6624.2	6608.7	6621.6	6518.6	7129.0	7471.5	7319.6	7250.0
27.5°	6510.8	6513.4	6469.6	6510.8	6461.9	5998.3	5738.2	7038.8	7033.7	7002.8
30°	6353.7	6346.0	6294.5	6346.0	6008.6	5491.0	5380.2	6564.9	6510.8	6469.6
32.5°	5872.1	5877.3	6026.7	6227.5	5673.8	5264.3	4929.5	5864.4	6376.9	6353.7
35°	4200.6	4210.9	4741.5	5733.0	5166.4	4813.6	4787.8	5068.6	6165.7	6176.0
37.5°	4043.5	4043.5	4030.6	4192.9	4767.2	4630.7	4682.2	4653.9	5648.1	5673.8
40°	3930.2	3907.0	3889.0	3634.0	3314.7	4502.0	4538.0	4409.2	5339.0	5344.1
42.5°	3793.7	3767.9	3773.1	3301.8	2967.0	4182.6	4082.2	3909.6	4823.9	4829.1
45°	3543.9	3587.7	3618.6	2889.7	2863.9	2987.6	3765.4	3657.2	4476.2	4571.5
47.5°	1802.8	1841.5	2825.3	2657.9	2717.1	2655.3	3180.7	3183.3	3724.2	4040.9
50°	1635.4	1625.1	1627.7	1550.4	2508.5	2148.0	2299.9	2918.0	2982.4	3435.7
52.5°	1524.7	1522.1	1365.0	1213.1	1576.2	1890.4	1668.9	2111.9	2217.5	2910.3
55°	1128.1	1210.5	1076.6	1140.9	986.4	1514.4	1506.7	1905.9	1941.9	2333.4
57.5°	10.3	12.9	30.9	867.9	682.5	757.2	1040.5	1300.6	1365.0	1818.3
60°	2.6	5.2	12.9	25.8	443.0	466.2	695.4	752.0	847.3	1084.3
62.5°	0.0	0.0	5.2	12.9	23.2	190.6	221.5	242.1	373.4	553.7
65°	0.0	0.0	2.6	7.7	12.9	30.9	54.1	113.3	162.3	200.9
67.5°	0.0	0.0	2.6	5.2	10.3	15.5	30.9	43.8	69.5	118.5
70°	0.0	0.0	2.6	5.2	7.7	12.9	20.6	30.9	41.2	59.2
72.5°	0.0	0.0	2.6	5.2	5.2	15.5	15.5	23.2	30.9	38.6
75°	0.0	0.0	2.6	2.6	5.2	10.3	15.5	18.0	20.6	30.9
77.5°	0.0	0.0	2.6	5.2	7.7	10.3	12.9	20.6	18.0	18.0
80°	0.0	0.0	2.6	7.7	7.7	12.9	15.5	20.6	12.9	12.9
82.5°	0.0	0.0	2.6	10.3	7.7	25.8	25.8	28.3	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	18.0	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



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
7561.7	0°	7561.7	7561.7	7561.7	7561.7	7561.7	7561.7	7561.7	7561.7	7561.7
7515.3	2.5°	7618.3	7584.8	7654.4	7646.6	7613.2	7597.7	7579.7	7564.2	7450.9
7520.4	5°	7620.9	7569.4	7654.4	7638.9	7633.8	7608.0	7592.6	7615.7	7512.7
7541.0	7.5°	7620.9	7569.4	7662.1	7667.2	7659.5	7638.9	7636.3	7651.8	7566.8
7577.1	10°	7672.4	7651.8	7729.1	7736.8	7726.5	7721.3	7708.5	7698.2	7608.0
7700.7	12.5°	7780.6	7739.4	7826.9	7850.1	7842.4	7855.3	7824.4	7839.8	7747.1
7826.9	15°	7911.9	7914.5	7981.5	8033.0	8027.8	8069.0	8022.7	8063.9	7996.9
7971.2	17.5°	8112.8	8141.1	8236.4	8313.7	8342.0	8372.9	8342.0	8354.9	8259.6
7811.5	20°	7901.6	8007.2	8465.6	8607.3	8666.5	8694.9	8643.4	8658.8	8563.5
7615.7	22.5°	7711.0	7847.5	8254.5	8697.4	8880.3	8937.0	8918.9	8916.4	8880.3
7229.4	25°	7430.3	7705.9	7888.7	8357.5	8931.8	9034.8	9045.1	9042.6	8988.5
6992.5	27.5°	7085.2	7147.0	7620.9	7906.8	8571.2	8962.7	8947.3	8872.6	8800.5
6500.5	30°	6644.8	6925.5	7139.3	7595.1	8105.1	8741.2	8741.2	8684.6	8609.9
6325.4	32.5°	6420.7	6783.9	6982.2	7147.0	7582.3	8494.0	8597.0	8537.8	8478.5
6188.9	35°	6302.2	6356.3	6819.9	6969.3	7337.6	8017.5	8434.7	8375.5	8331.7
5825.8	37.5°	6042.1	6168.3	6384.6	6783.9	6897.2	7628.6	8218.4	8187.5	8136.0
5354.5	40°	5462.6	5800.0	6132.3	6510.8	6629.3	7129.0	7955.7	7968.6	7899.0
4852.2	42.5°	5120.1	5349.3	5869.6	6124.5	6443.9	6807.0	7700.7	7721.3	7672.4
4597.3	45°	4718.3	4973.3	5339.0	5802.6	6237.8	6364.0	7250.0	7466.4	7425.1
4089.9	47.5°	4350.0	4556.0	5004.2	5472.9	5954.5	5936.5	6732.3	7139.3	7082.6
3701.0	50°	3827.2	4187.8	4398.9	4829.1	5547.6	5596.5	6181.2	6755.5	6709.2
3144.7	52.5°	3227.1	3680.4	4084.7	4478.8	5135.5	5251.4	5668.7	6364.0	6333.1
2402.9	55°	2820.2	3149.8	3605.7	3922.5	4635.9	4944.9	5284.9	5990.6	5975.1
1975.4	57.5°	2006.3	2642.5	3018.5	3461.5	3837.5	4396.4	4648.8	5230.8	5086.6
1094.6	60°	1359.9	1658.6	2117.1	2593.5	2845.9	3404.8	3639.2	4105.3	4066.7
654.2	62.5°	718.6	994.1	1321.2	1560.7	1743.6	2287.0	2384.9	2887.1	2874.3
262.7	65°	316.8	419.8	716.0	839.6	1027.6	1280.0	1365.0	1545.3	1501.5
128.8	67.5°	164.8	249.8	404.4	497.1	625.8	721.1	790.7	847.3	883.4
85.0	70°	100.4	182.9	249.8	345.1	430.1	507.4	561.5	638.7	685.1
43.8	72.5°	74.7	115.9	172.6	265.3	311.6	401.8	455.9	512.5	553.7
36.1	75°	41.2	77.3	139.1	208.6	249.8	327.1	376.0	414.7	427.5
20.6	77.5°	25.8	59.2	115.9	162.3	195.7	265.3	252.4	288.5	319.4
15.5	80°	18.0	43.8	90.1	133.9	136.5	170.0	200.9	231.8	252.4
10.3	82.5°	12.9	36.1	67.0	103.0	90.1	131.4	157.1	180.3	131.4
7.7	85°	10.3	25.8	33.5	61.8	51.5	92.7	79.8	77.3	51.5
5.2	87.5°	7.7	12.9	23.2	28.3	20.6	20.6	25.8	30.9	25.8
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7561.7
7373.6
7425.1
7468.9
7533.3
7664.7
7886.2
8177.2
8496.6
8764.4
8906.1
8743.8
8581.5
8429.6
8269.9
8084.5
7883.6
7667.2
7430.3
7123.8
6716.9
6353.7
5993.2
5071.1
4069.3
2876.8
1483.5
883.4
687.7
561.5
419.8
324.5
255.0
95.3
51.5
25.8
0.0

(END OF REPORT)