

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: P638435

Luminaire Tested: **IFLD-M-SA4B-740-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638435
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4B-740-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16833.5 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

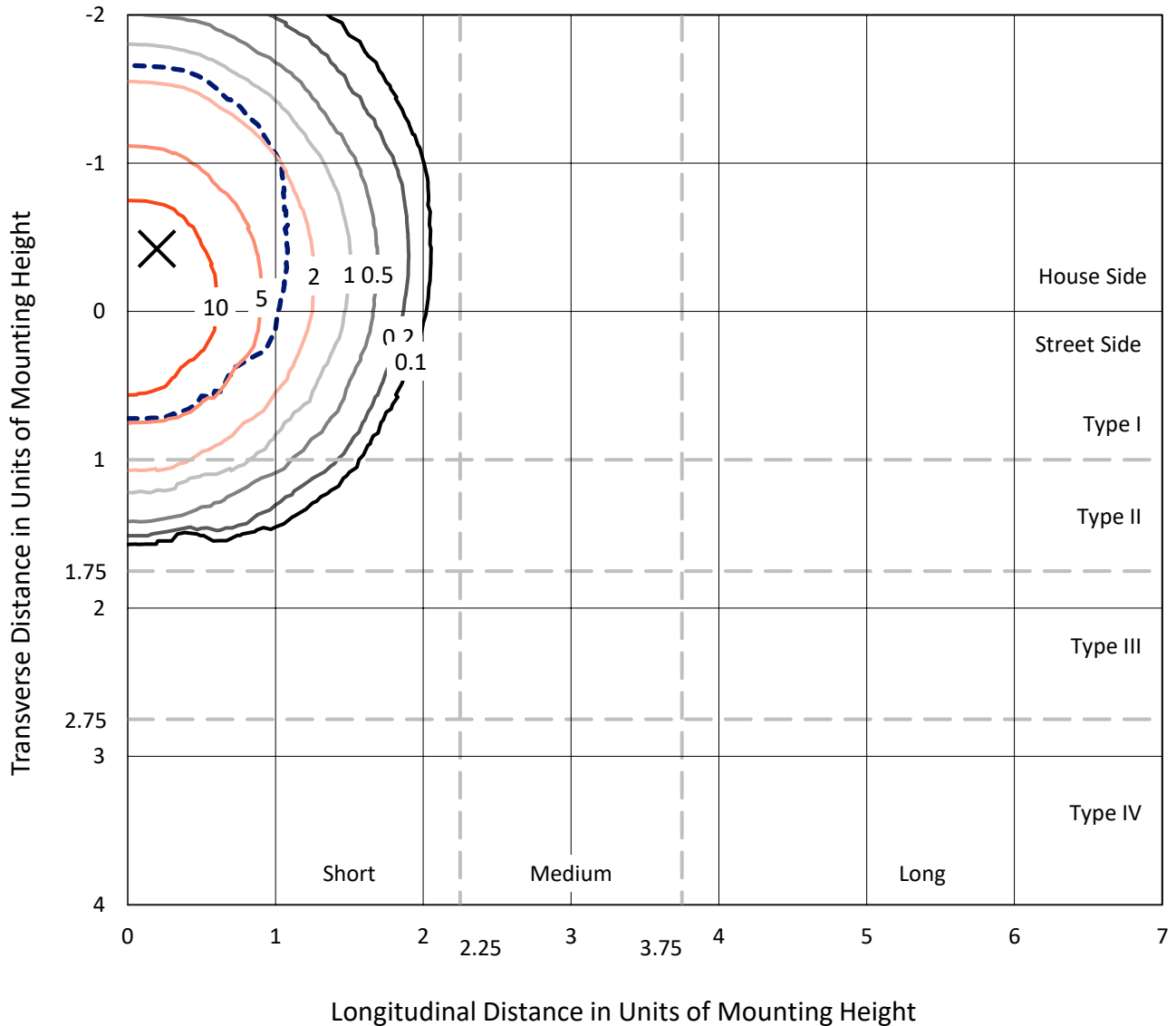
Input Watts (W): 166.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

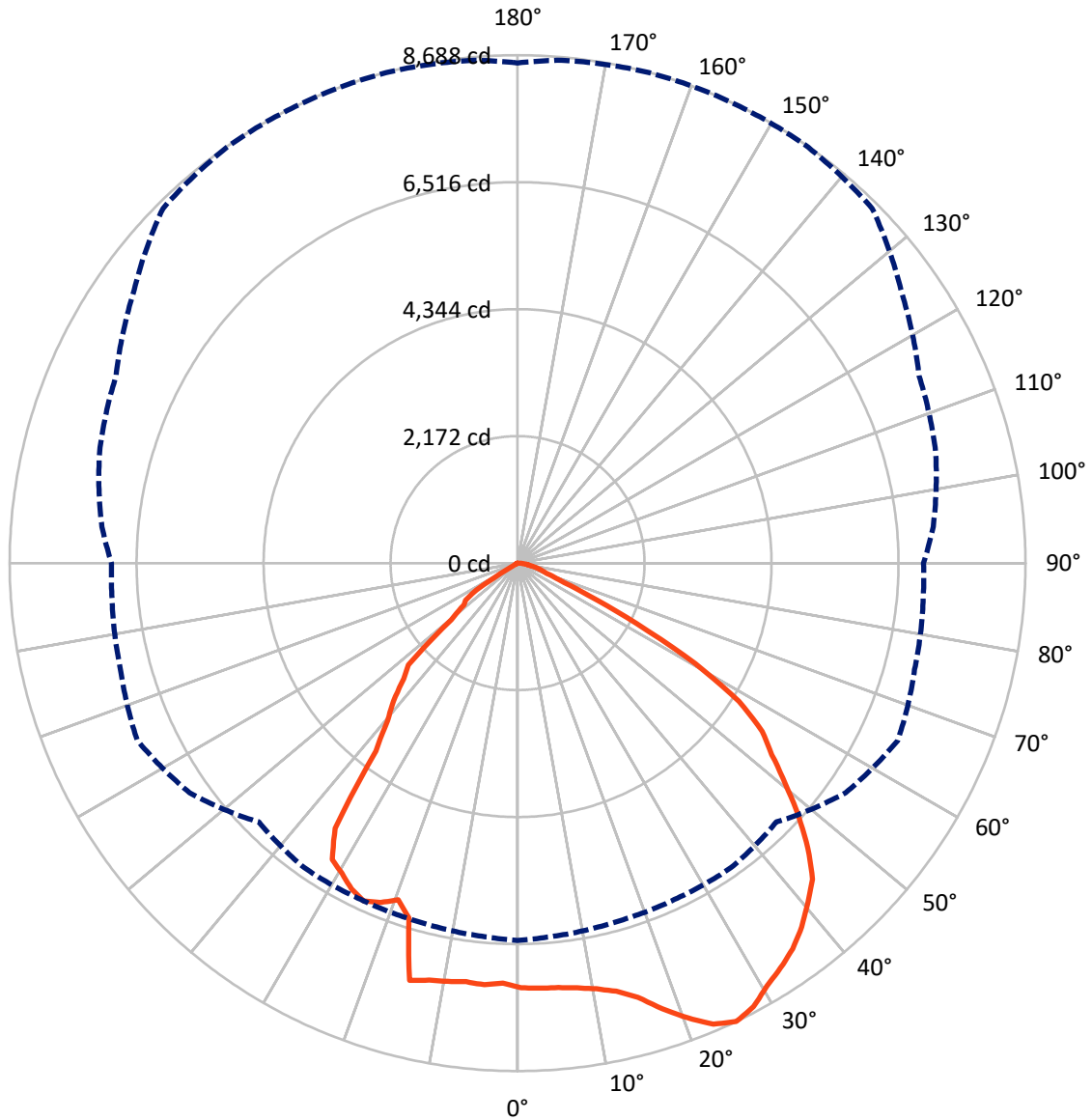
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.2 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	10421.7	0.0	10421.7
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6411.8	0.0	6411.8
	% Fixture	38.1	0.0	38.1
Total	Lumens	16833.5	0.0	16833.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	696.8	4.1
10°-20°	2127.7	12.6
20°-30°	3363.8	20.0
30°-40°	3799.7	22.6
40°-50°	3558.5	21.1
50°-60°	2453.3	14.6
60°-70°	659.1	3.9
70°-80°	137.4	0.8
80°-90°	37.2	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°	16833.5	100.0
0°-180°	16833.5	100.0



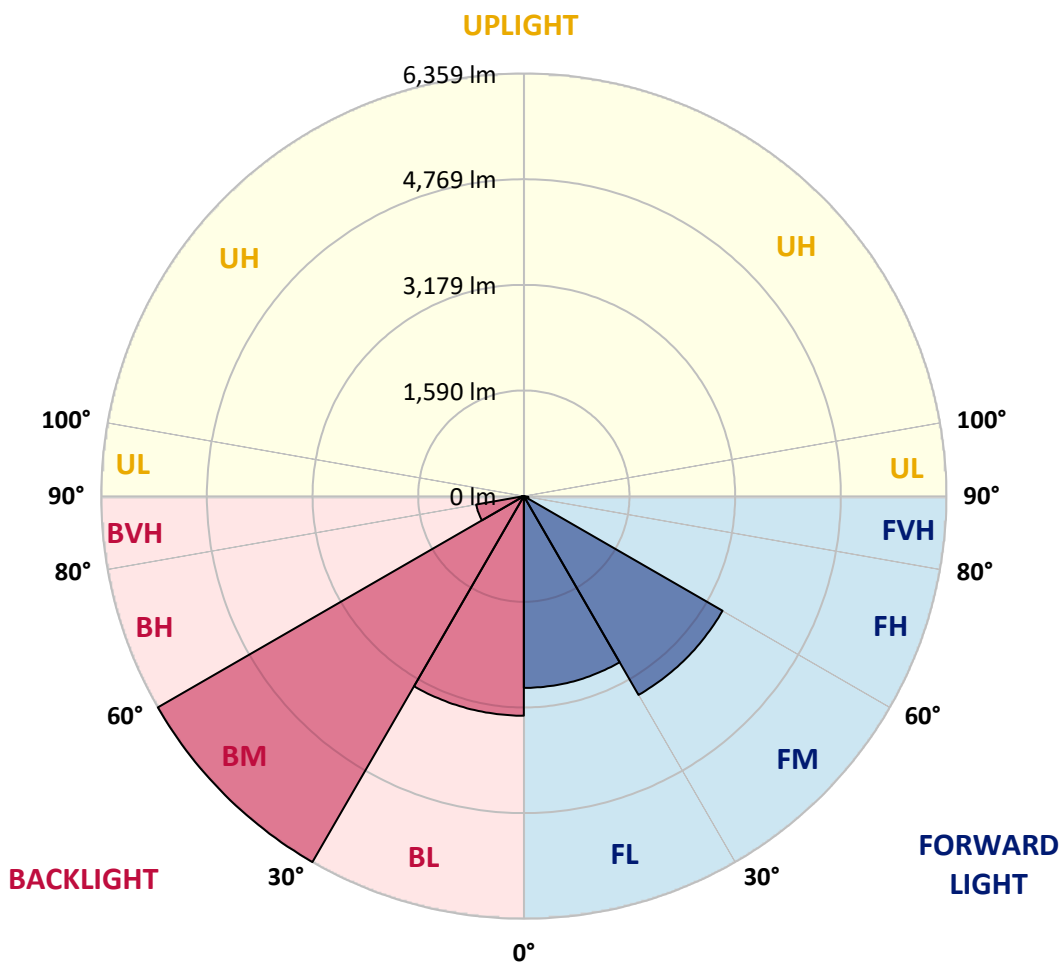
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2884.7	17.1			
FM (30°-60°)	3452.9	20.5			
FH (60°-80°)	69.2	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	3303.6	19.6	B4/5000		
BM (30°-60°)	6358.6	37.8	B4/8500		
BH (60°-80°)	727.3	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.2	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°	7263.4	7263.4	7263.4	7263.4	7263.4	7263.4	7263.4	7263.4	7263.4	7263.4
2.5°	7295.5	7248.5	7204.0	7189.1	7251.0	7317.8	7275.7	7278.2	7263.4	7290.6
5°	7349.9	7285.6	7255.9	7233.7	7243.6	7312.8	7253.5	7275.7	7251.0	7283.1
7.5°	7330.2	7285.6	7255.9	7213.9	7246.0	7327.7	7270.8	7273.3	7260.9	7290.6
10°	7317.8	7285.6	7248.5	7253.5	7290.6	7359.8	7315.3	7340.0	7322.7	7340.0
12.5°	7347.5	7312.8	7293.0	7293.0	7325.2	7404.4	7382.1	7404.4	7396.9	7411.8
15°	7067.9	7100.1	7288.1	7372.2	7436.5	7515.7	7505.8	7528.1	7533.0	7555.3
17.5°	5962.1	5929.9	5915.1	6348.0	7498.4	7743.3	7735.9	7733.4	7708.7	7691.3
20°	6108.0	6095.7	6078.4	6110.5	6239.2	7862.0	7911.5	7607.2	7518.2	7510.7
22.5°	6340.6	6320.8	6256.5	6259.0	6298.5	6835.4	7666.6	7389.5	7359.8	7342.5
25°	6454.4	6414.8	6362.9	6348.0	6360.4	6261.4	6847.7	7176.8	7030.8	6964.0
27.5°	6254.0	6256.5	6214.4	6254.0	6207.0	5761.7	5511.8	6761.2	6756.2	6726.5
30°	6103.1	6095.7	6046.2	6095.7	5771.6	5274.3	5168.0	6306.0	6254.0	6214.4
32.5°	5640.5	5645.4	5788.9	5981.9	5450.0	5056.6	4735.0	5633.1	6125.4	6103.1
35°	4034.9	4044.8	4554.4	5506.9	4962.6	4623.7	4599.0	4868.6	5922.5	5932.4
37.5°	3884.0	3884.0	3871.6	4027.5	4579.2	4448.1	4497.5	4470.3	5425.3	5450.0
40°	3775.2	3752.9	3735.6	3490.7	3183.9	4324.4	4359.0	4235.3	5128.4	5133.3
42.5°	3644.0	3619.3	3624.3	3171.5	2849.9	4017.6	3921.1	3755.4	4633.6	4638.6
45°	3404.1	3446.1	3475.8	2775.7	2751.0	2869.7	3616.8	3512.9	4299.6	4391.2
47.5°	1731.7	1768.8	2713.9	2553.1	2610.0	2550.6	3055.3	3057.7	3577.3	3881.5
50°	1570.9	1561.0	1563.5	1489.3	2409.6	2063.2	2209.2	2802.9	2864.8	3300.2
52.5°	1464.5	1462.1	1311.2	1165.2	1514.0	1815.8	1603.1	2028.6	2130.0	2795.5
55°	1083.6	1162.7	1034.1	1095.9	947.5	1454.7	1447.2	1830.7	1865.3	2241.3
57.5°	9.9	12.4	29.7	833.7	655.6	727.3	999.5	1249.3	1311.2	1746.6
60°	2.5	4.9	12.4	24.7	425.5	447.8	668.0	722.4	813.9	1041.5
62.5°	0.0	0.0	4.9	12.4	22.3	183.1	212.8	232.5	358.7	531.9
65°	0.0	0.0	2.5	7.4	12.4	29.7	52.0	108.9	155.9	193.0
67.5°	0.0	0.0	2.5	4.9	9.9	14.8	29.7	42.1	66.8	113.8
70°	0.0	0.0	2.5	4.9	7.4	12.4	19.8	29.7	39.6	56.9
72.5°	0.0	0.0	2.5	4.9	4.9	14.8	14.8	22.3	29.7	37.1
75°	0.0	0.0	2.5	2.5	4.9	9.9	14.8	17.3	19.8	29.7
77.5°	0.0	0.0	2.5	4.9	7.4	9.9	12.4	19.8	17.3	17.3
80°	0.0	0.0	2.5	7.4	7.4	12.4	14.8	19.8	12.4	12.4
82.5°	0.0	0.0	2.5	9.9	7.4	24.7	24.7	27.2	9.9	9.9
85°	0.0	0.0	7.4	4.9	14.8	24.7	22.3	14.8	12.4	7.4
87.5°	0.0	0.0	2.5	2.5	4.9	7.4	17.3	14.8	4.9	4.9
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°
7263.4	0°	7263.4	7263.4	7263.4	7263.4	7263.4	7263.4	7263.4	7263.4	7263.4
7218.8	2.5°	7317.8	7285.6	7352.4	7345.0	7312.8	7298.0	7280.7	7265.8	7157.0
7223.8	5°	7320.3	7270.8	7352.4	7337.6	7332.6	7307.9	7293.0	7315.3	7216.4
7243.6	7.5°	7320.3	7270.8	7359.8	7364.8	7357.4	7337.6	7335.1	7349.9	7268.3
7278.2	10°	7369.7	7349.9	7424.2	7431.6	7421.7	7416.7	7404.4	7394.5	7307.9
7396.9	12.5°	7473.6	7434.1	7518.2	7540.4	7533.0	7545.4	7515.7	7530.5	7441.5
7518.2	15°	7599.8	7602.3	7666.6	7716.1	7711.1	7750.7	7706.2	7745.8	7681.4
7656.7	17.5°	7792.8	7820.0	7911.5	7985.7	8012.9	8042.6	8012.9	8025.3	7933.8
7503.3	20°	7589.9	7691.3	8131.7	8267.8	8324.7	8351.9	8302.4	8317.2	8225.7
7315.3	22.5°	7406.8	7538.0	7928.8	8354.3	8530.0	8584.4	8567.1	8564.6	8530.0
6944.2	25°	7137.2	7401.9	7577.5	8027.8	8579.5	8678.4	8688.3	8685.8	8633.9
6716.6	27.5°	6805.7	6865.1	7320.3	7594.9	8233.1	8609.2	8594.3	8522.6	8453.3
6244.1	30°	6382.7	6652.3	6857.6	7295.5	7785.4	8396.4	8396.4	8342.0	8270.2
6075.9	32.5°	6167.4	6516.2	6706.7	6865.1	7283.1	8158.9	8257.9	8201.0	8144.1
5944.8	35°	6053.6	6105.6	6550.9	6694.4	7048.1	7701.2	8102.0	8045.1	8003.1
5596.0	37.5°	5803.8	5925.0	6132.8	6516.2	6625.1	7327.7	7894.2	7864.5	7815.0
5143.2	40°	5247.1	5571.2	5890.3	6254.0	6367.8	6847.7	7641.9	7654.2	7587.4
4660.8	42.5°	4918.1	5138.3	5638.0	5882.9	6189.7	6538.5	7396.9	7416.7	7369.7
4415.9	45°	4532.2	4777.1	5128.4	5573.7	5991.8	6113.0	6964.0	7171.8	7132.2
3928.5	47.5°	4178.4	4376.3	4806.8	5257.0	5719.6	5702.3	6466.8	6857.6	6803.2
3555.0	50°	3676.2	4022.6	4225.4	4638.6	5328.8	5375.8	5937.3	6489.0	6444.5
3020.6	52.5°	3099.8	3535.2	3923.6	4302.1	4932.9	5044.3	5445.0	6113.0	6083.3
2308.1	55°	2708.9	3025.6	3463.5	3767.7	4453.0	4749.9	5076.4	5754.3	5739.4
1897.5	57.5°	1927.2	2538.2	2899.4	3324.9	3686.1	4222.9	4465.4	5024.5	4885.9
1051.4	60°	1306.2	1593.2	2033.5	2491.2	2733.7	3270.5	3495.6	3943.4	3906.3
628.4	62.5°	690.2	954.9	1269.1	1499.2	1674.8	2196.8	2290.8	2773.2	2760.9
252.3	65°	304.3	403.2	687.7	806.5	987.1	1229.5	1311.2	1484.3	1442.3
123.7	67.5°	158.3	240.0	388.4	477.5	601.2	692.7	759.5	813.9	848.5
81.6	70°	96.5	175.6	240.0	331.5	413.1	487.4	539.3	613.5	658.1
42.1	72.5°	71.7	111.3	165.8	254.8	299.3	385.9	437.9	492.3	531.9
34.6	75°	39.6	74.2	133.6	200.4	240.0	314.2	361.2	398.3	410.7
19.8	77.5°	24.7	56.9	111.3	155.9	188.0	254.8	242.4	277.1	306.8
14.8	80°	17.3	42.1	86.6	128.6	131.1	163.3	193.0	222.7	242.4
9.9	82.5°	12.4	34.6	64.3	99.0	86.6	126.2	150.9	173.2	126.2
7.4	85°	9.9	24.7	32.2	59.4	49.5	89.1	76.7	74.2	49.5
4.9	87.5°	7.4	12.4	22.3	27.2	19.8	19.8	24.7	29.7	24.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7263.4
7082.8
7132.2
7174.3
7236.1
7362.3
7575.1
7854.6
8161.4
8418.7
8554.7
8398.9
8243.0
8097.1
7943.7
7765.6
7572.6
7364.8
7137.2
6842.8
6451.9
6103.1
5756.8
4871.1
3908.8
2763.3
1425.0
848.5
660.5
539.3
403.2
311.7
244.9
91.5
49.5
24.7
0.0

(END OF REPORT)