

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: P636932

Luminaire Tested: **IFLD-L-SA7B-935-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636932
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-935-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3500K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17428.3 lumens
Efficiency: N/A
Efficacy: 62.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

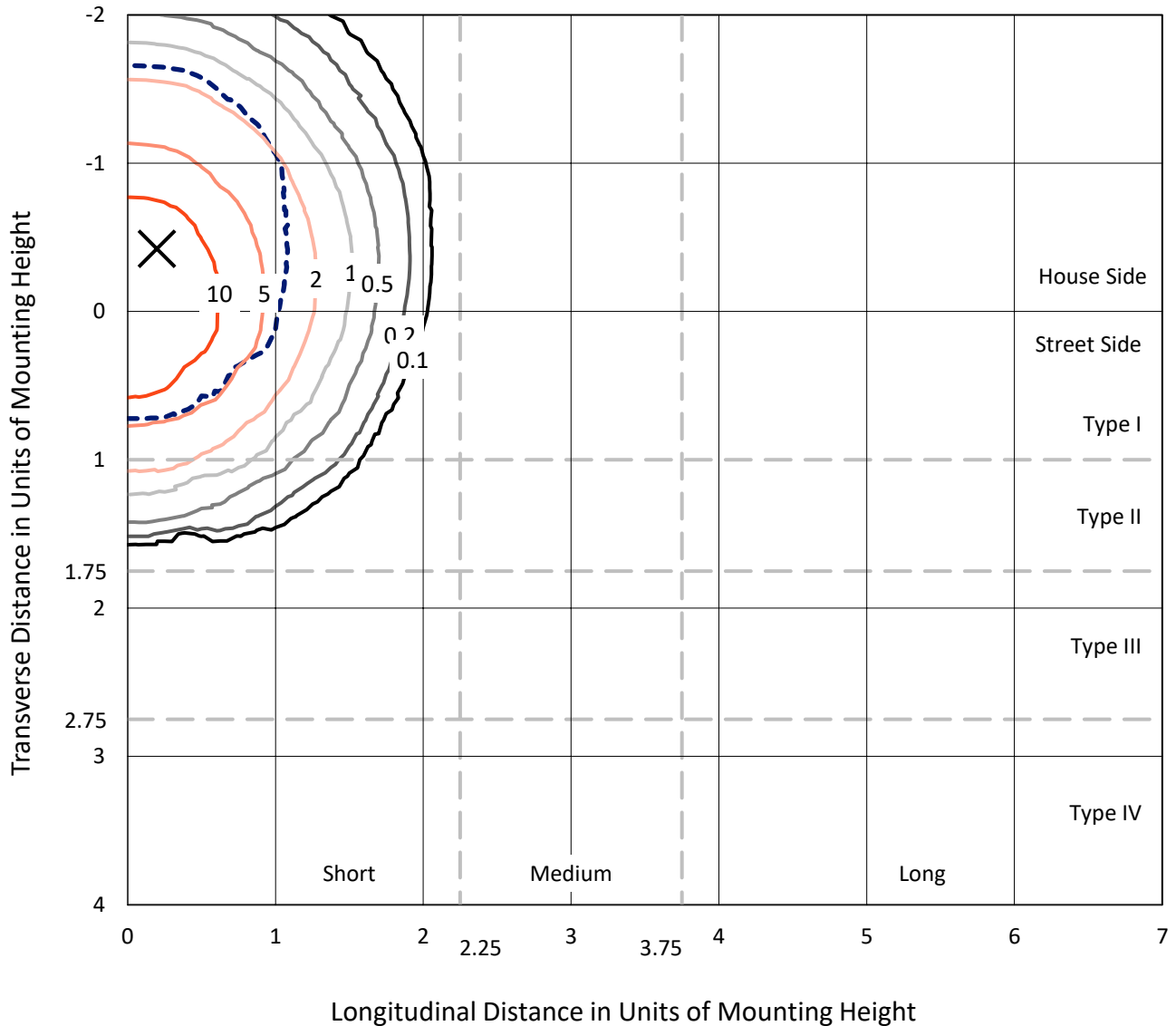
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

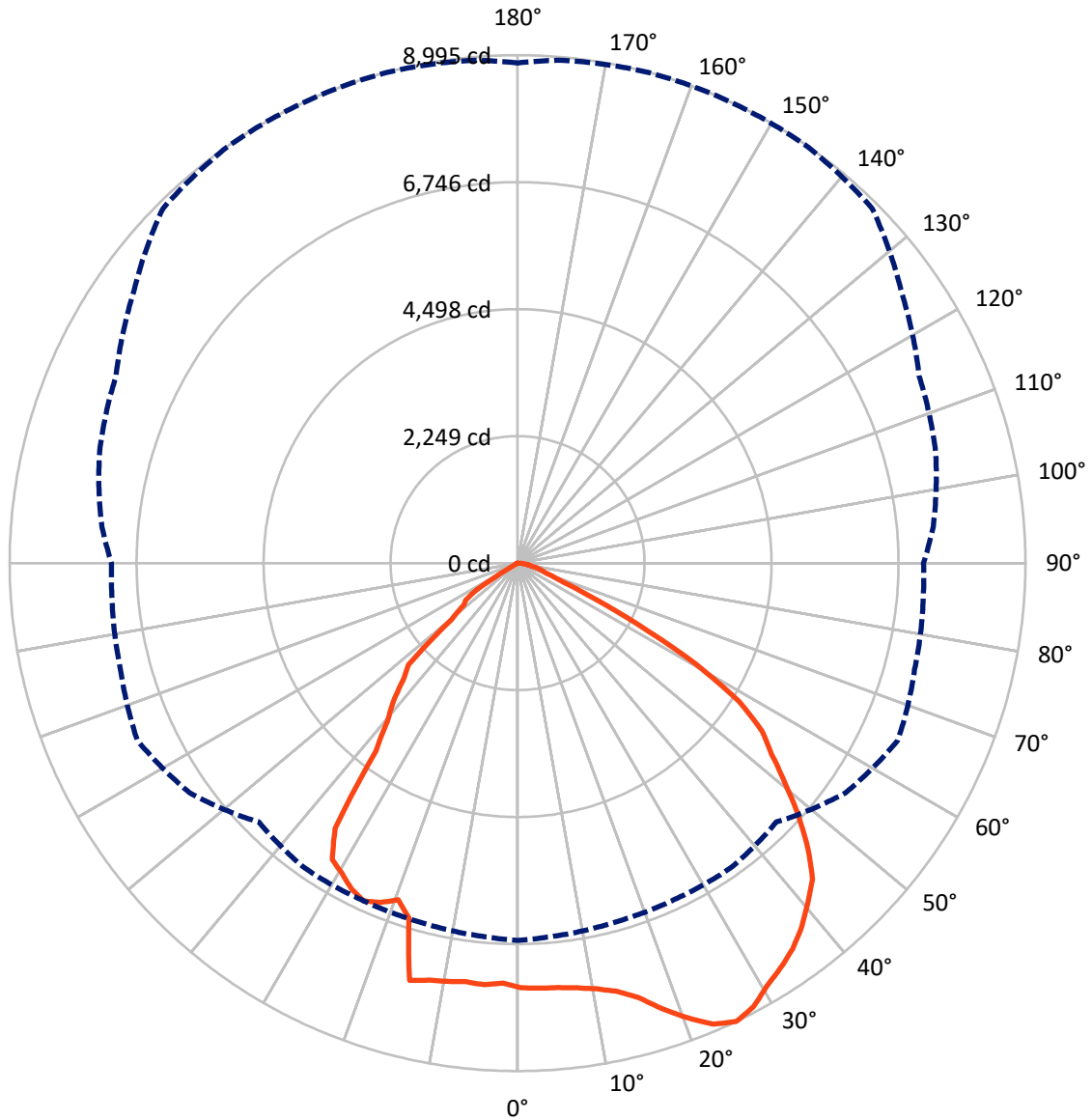
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.8 fc
 Type I - Short - N/A

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CATALOG NUMBER: IFLD-L-SA7B-935-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	10789.9	0.0	10789.9
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6638.4	0.0	6638.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	17428.3	0.0	17428.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	721.4	4.1
10°-20°	2202.9	12.6
20°-30°	3482.6	20.0
30°-40°	3934.0	22.6
40°-50°	3684.2	21.1
50°-60°	2540.0	14.6
60°-70°	682.4	3.9
70°-80°	142.2	0.8
80°-90°	38.5	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°	17428.3	100.0
0°-180°	17428.3	100.0



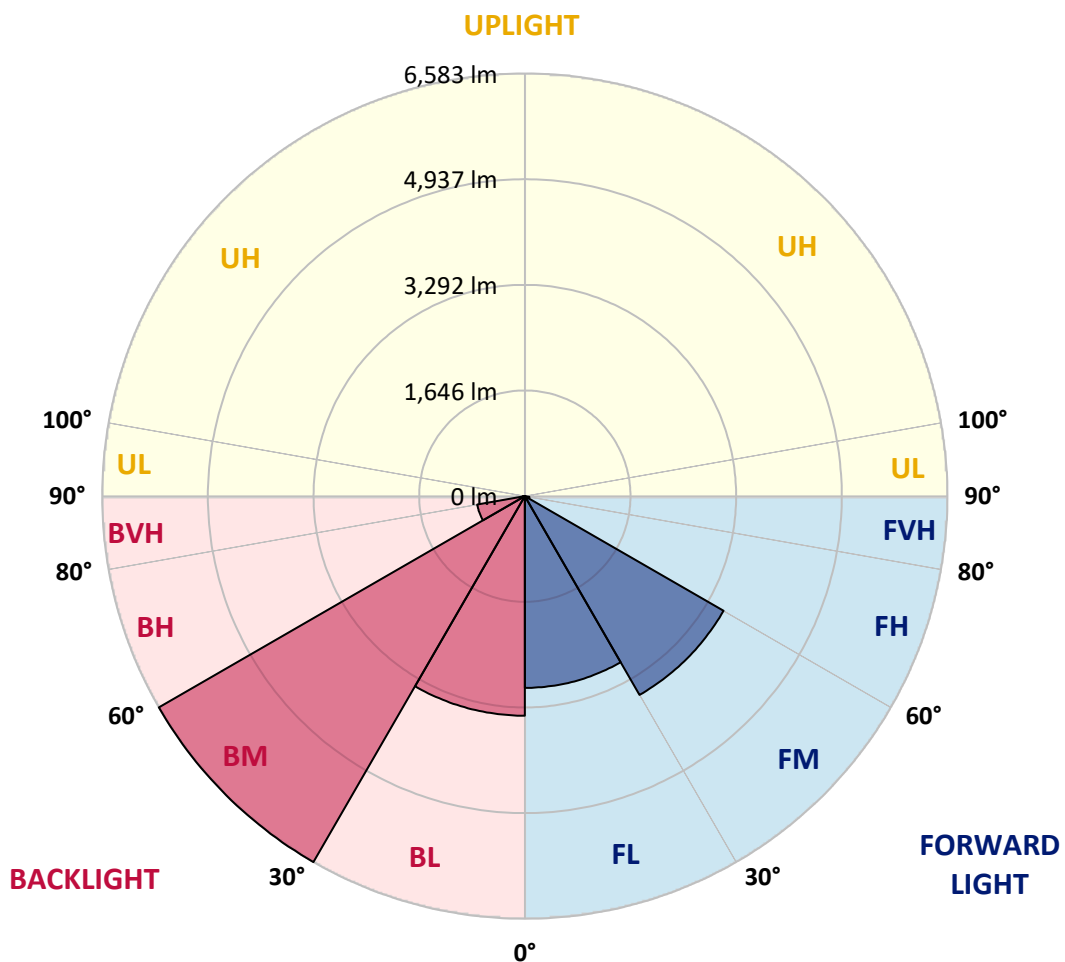
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2986.7	17.1			
FM (30°-60°)	3574.9	20.5			
FH (60°-80°)	71.6	0.4			G0/660
FVH (80°-90°)	5.2	0.0			G0/10
BL (0°-30°)	3420.3	19.6	B4/5000		
BM (30°-60°)	6583.3	37.8	B4/8500		
BH (60°-80°)	753.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	33.3	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°	7520.0	7520.0	7520.0	7520.0	7520.0	7520.0	7520.0	7520.0	7520.0	7520.0
2.5°	7553.3	7504.6	7458.5	7443.2	7507.2	7576.3	7532.8	7535.4	7520.0	7548.2
5°	7609.6	7543.0	7512.3	7489.3	7499.5	7571.2	7509.7	7532.8	7507.2	7540.5
7.5°	7589.1	7543.0	7512.3	7468.8	7502.1	7586.6	7527.7	7530.2	7517.4	7548.2
10°	7576.3	7543.0	7504.6	7509.7	7548.2	7619.9	7573.8	7599.4	7581.5	7599.4
12.5°	7607.1	7571.2	7550.7	7550.7	7584.0	7666.0	7642.9	7666.0	7658.3	7673.7
15°	7317.6	7350.9	7545.6	7632.7	7699.3	7781.2	7771.0	7794.1	7799.2	7822.2
17.5°	6172.7	6139.4	6124.1	6572.3	7763.3	8016.9	8009.2	8006.6	7981.0	7963.1
20°	6323.9	6311.1	6293.1	6326.4	6459.6	8139.8	8191.1	7876.0	7783.8	7776.1
22.5°	6564.6	6544.1	6477.5	6480.1	6521.1	7076.9	7937.5	7650.6	7619.9	7602.0
25°	6682.4	6641.5	6587.7	6572.3	6585.1	6482.7	7089.7	7430.3	7279.2	7210.1
27.5°	6475.0	6477.5	6434.0	6475.0	6426.3	5965.3	5706.6	7000.0	6994.9	6964.2
30°	6318.7	6311.1	6259.8	6311.1	5975.5	5460.7	5350.6	6528.8	6475.0	6434.0
32.5°	5839.8	5844.9	5993.5	6193.2	5642.6	5235.3	4902.3	5832.1	6341.8	6318.7
35°	4177.5	4187.7	4715.4	5701.5	5138.0	4787.1	4761.5	5040.6	6131.8	6142.0
37.5°	4021.2	4021.2	4008.4	4169.8	4741.0	4605.2	4656.5	4628.3	5616.9	5642.6
40°	3908.6	3885.5	3867.6	3614.0	3296.4	4477.2	4513.0	4385.0	5309.6	5314.7
42.5°	3772.8	3747.2	3752.3	3283.6	2950.6	4159.6	4059.7	3888.1	4797.3	4802.4
45°	3524.4	3567.9	3598.6	2873.8	2848.2	2971.1	3744.6	3637.1	4451.5	4546.3
47.5°	1792.9	1831.3	2809.8	2643.3	2702.2	2640.7	3163.2	3165.8	3703.6	4018.7
50°	1626.4	1616.2	1618.7	1541.9	2494.7	2136.1	2287.2	2902.0	2966.0	3416.8
52.5°	1516.3	1513.7	1357.5	1206.4	1567.5	1880.0	1659.7	2100.3	2205.3	2894.3
55°	1121.9	1203.8	1070.6	1134.7	981.0	1506.0	1498.4	1895.4	1931.2	2320.5
57.5°	10.2	12.8	30.7	863.2	678.7	753.0	1034.8	1293.5	1357.5	1808.3
60°	2.6	5.1	12.8	25.6	440.5	463.6	691.6	747.9	842.7	1078.3
62.5°	0.0	0.0	5.1	12.8	23.1	189.5	220.3	240.8	371.4	550.7
65°	0.0	0.0	2.6	7.7	12.8	30.7	53.8	112.7	161.4	199.8
67.5°	0.0	0.0	2.6	5.1	10.2	15.4	30.7	43.5	69.2	117.8
70°	0.0	0.0	2.6	5.1	7.7	12.8	20.5	30.7	41.0	58.9
72.5°	0.0	0.0	2.6	5.1	5.1	15.4	15.4	23.1	30.7	38.4
75°	0.0	0.0	2.6	2.6	5.1	10.2	15.4	17.9	20.5	30.7
77.5°	0.0	0.0	2.6	5.1	7.7	10.2	12.8	20.5	17.9	17.9
80°	0.0	0.0	2.6	7.7	7.7	12.8	15.4	20.5	12.8	12.8
82.5°	0.0	0.0	2.6	10.2	7.7	25.6	25.6	28.2	10.2	10.2
85°	0.0	0.0	7.7	5.1	15.4	25.6	23.1	15.4	12.8	7.7
87.5°	0.0	0.0	2.6	2.6	5.1	7.7	17.9	15.4	5.1	5.1
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°
7520.0	0°	7520.0	7520.0	7520.0	7520.0	7520.0	7520.0	7520.0	7520.0	7520.0
7473.9	2.5°	7576.3	7543.0	7612.2	7604.5	7571.2	7555.8	7537.9	7522.6	7409.9
7479.0	5°	7578.9	7527.7	7612.2	7596.8	7591.7	7566.1	7550.7	7573.8	7471.3
7499.5	7.5°	7578.9	7527.7	7619.9	7625.0	7617.3	7596.8	7594.3	7609.6	7525.1
7535.4	10°	7630.1	7609.6	7686.5	7694.2	7683.9	7678.8	7666.0	7655.7	7566.1
7658.3	12.5°	7737.7	7696.7	7783.8	7806.9	7799.2	7812.0	7781.2	7796.6	7704.4
7783.8	15°	7868.3	7870.9	7937.5	7988.7	7983.6	8024.6	7978.5	8019.4	7952.9
7927.2	17.5°	8068.1	8096.3	8191.1	8267.9	8296.1	8326.8	8296.1	8308.9	8214.1
7768.4	20°	7858.1	7963.1	8419.0	8559.9	8618.8	8647.0	8595.7	8611.1	8516.3
7573.8	22.5°	7668.5	7804.3	8209.0	8649.5	8831.4	8887.7	8869.8	8867.2	8831.4
7189.6	25°	7389.4	7663.4	7845.3	8311.4	8882.6	8985.1	8995.3	8992.7	8939.0
6953.9	27.5°	7046.1	7107.6	7578.9	7863.2	8524.0	8913.3	8898.0	8823.7	8752.0
6464.7	30°	6608.2	6887.3	7099.9	7553.3	8060.4	8693.1	8693.1	8636.7	8562.4
6290.6	32.5°	6385.3	6746.5	6943.7	7107.6	7540.5	8447.2	8549.6	8490.7	8431.8
6154.8	35°	6267.5	6321.3	6782.3	6930.9	7297.2	7973.3	8388.3	8329.4	8285.8
5793.7	37.5°	6008.8	6134.3	6349.5	6746.5	6859.2	7586.6	8173.1	8142.4	8091.2
5325.0	40°	5432.5	5768.1	6098.5	6475.0	6592.8	7089.7	7911.9	7924.7	7855.5
4825.5	42.5°	5091.9	5319.8	5837.2	6090.8	6408.4	6769.5	7658.3	7678.8	7630.1
4571.9	45°	4692.3	4945.9	5309.6	5770.6	6203.5	6329.0	7210.1	7425.2	7384.2
4067.4	47.5°	4326.0	4530.9	4976.6	5442.8	5921.7	5903.8	6695.3	7099.9	7043.6
3680.6	50°	3806.1	4164.7	4374.7	4802.4	5517.1	5565.7	6147.1	6718.3	6672.2
3127.4	52.5°	3209.3	3660.1	4062.2	4454.1	5107.2	5222.5	5637.4	6329.0	6298.2
2389.7	55°	2804.6	3132.5	3585.8	3900.9	4610.3	4917.7	5255.8	5957.6	5942.2
1964.5	57.5°	1995.3	2627.9	3001.8	3442.4	3816.3	4372.1	4623.2	5202.0	5058.6
1088.6	60°	1352.4	1649.5	2105.4	2579.2	2830.2	3386.0	3619.1	4082.7	4044.3
650.6	62.5°	714.6	988.7	1313.9	1552.2	1734.0	2274.4	2371.8	2871.2	2858.4
261.3	65°	315.0	417.5	712.0	835.0	1022.0	1273.0	1357.5	1536.8	1493.2
128.1	67.5°	163.9	248.4	402.1	494.3	622.4	717.2	786.3	842.7	878.5
84.5	70°	99.9	181.9	248.4	343.2	427.7	504.6	558.4	635.2	681.3
43.5	72.5°	74.3	115.3	171.6	263.8	309.9	399.6	453.4	509.7	550.7
35.9	75°	41.0	76.8	138.3	207.5	248.4	325.3	374.0	412.4	425.2
20.5	77.5°	25.6	58.9	115.3	161.4	194.7	263.8	251.0	286.9	317.6
15.4	80°	17.9	43.5	89.6	133.2	135.7	169.0	199.8	230.5	251.0
10.2	82.5°	12.8	35.9	66.6	102.5	89.6	130.6	156.2	179.3	130.6
7.7	85°	10.2	25.6	33.3	61.5	51.2	92.2	79.4	76.8	51.2
5.1	87.5°	7.7	12.8	23.1	28.2	20.5	20.5	25.6	30.7	25.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7520.0
7333.0
7384.2
7427.8
7491.8
7622.4
7842.7
8132.1
8449.7
8716.1
8857.0
8695.6
8534.3
8383.2
8224.4
8039.9
7840.2
7625.0
7389.4
7084.6
6679.9
6318.7
5960.2
5043.2
4046.9
2861.0
1475.3
878.5
683.9
558.4
417.5
322.7
253.6
94.8
51.2
25.6
0.0

(END OF REPORT)