

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: P638555

Luminaire Tested: **IFLD-L-SA7A-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638555
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18331.1 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

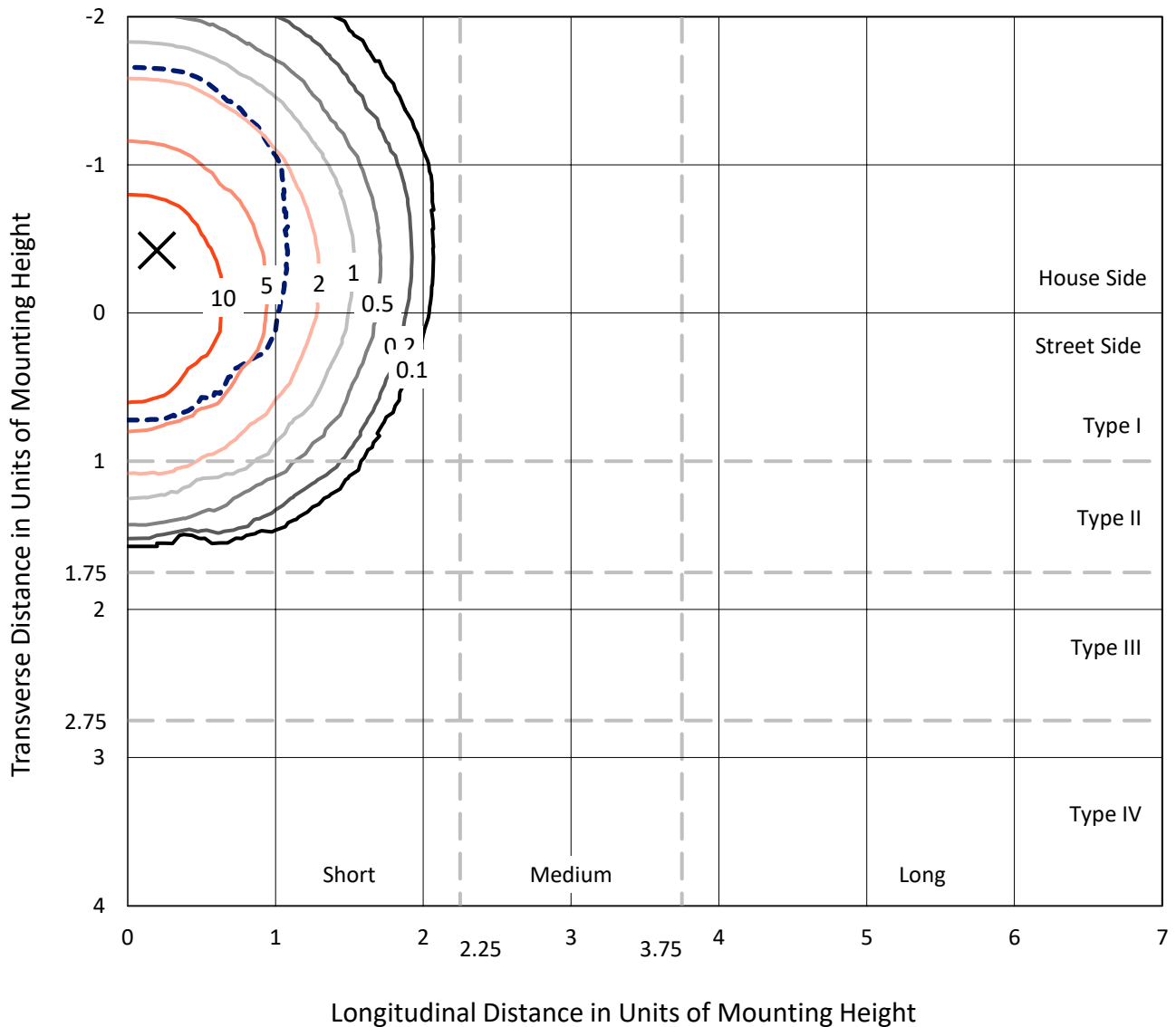
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

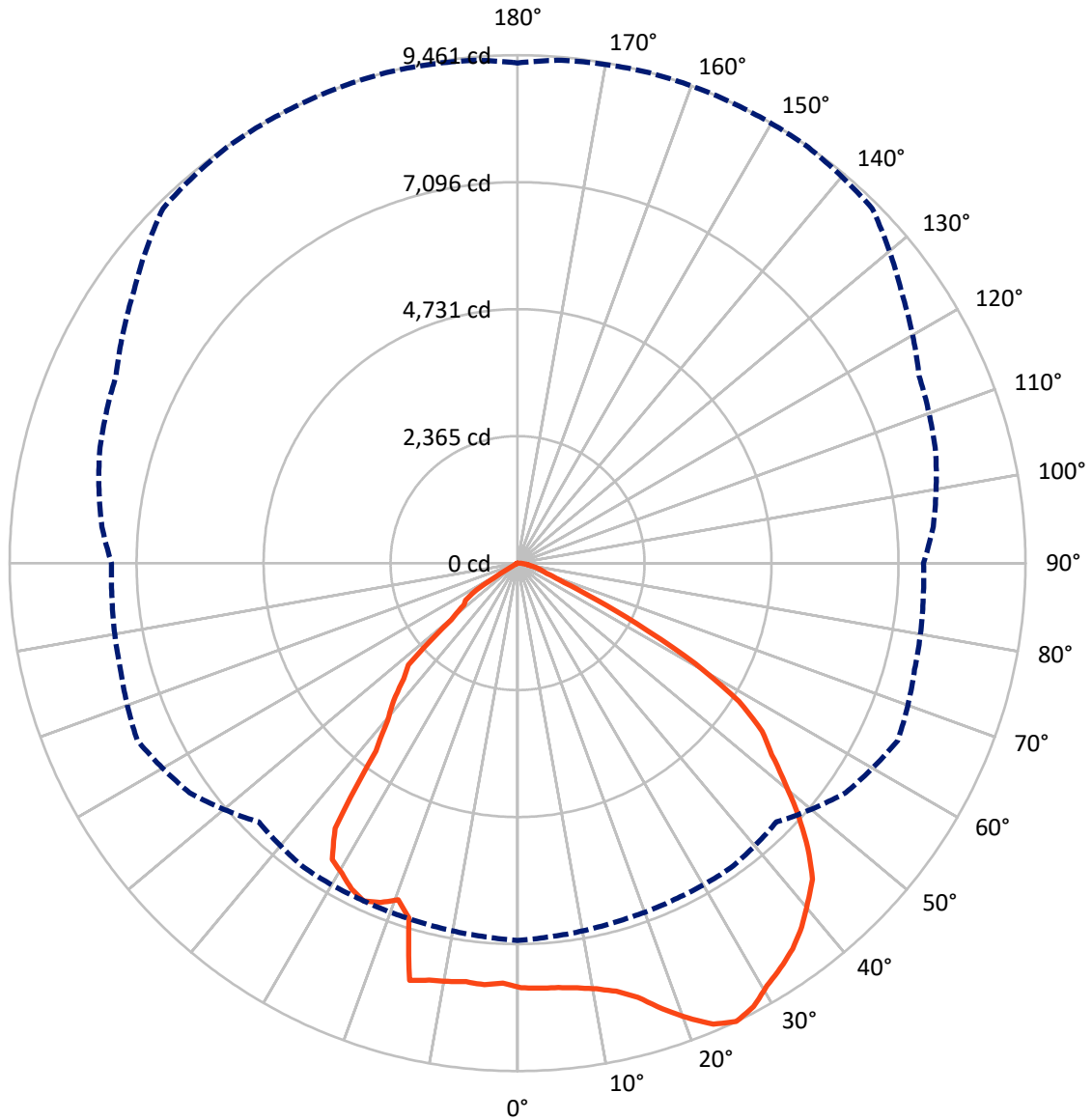
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 19.8 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	11348.8	0.0	11348.8
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6982.3	0.0	6982.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	18331.1	0.0	18331.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	758.8	4.1
10°-20°	2317.0	12.6
20°-30°	3663.1	20.0
30°-40°	4137.7	22.6
40°-50°	3875.1	21.1
50°-60°	2671.6	14.6
60°-70°	717.8	3.9
70°-80°	149.6	0.8
80°-90°	40.5	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°	18331.1	100.0
0°-180°	18331.1	100.0



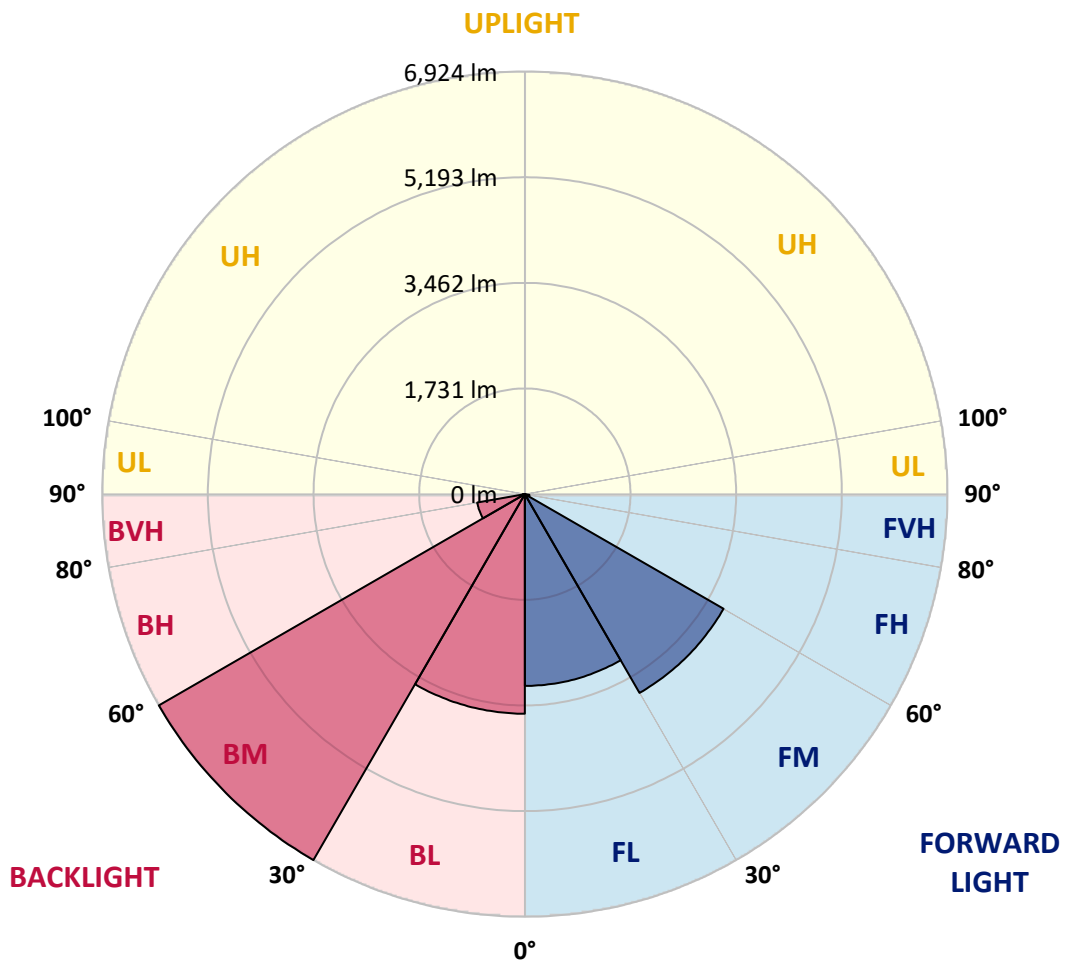
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3141.4	17.1			
FM (30°-60°)	3760.1	20.5			
FH (60°-80°)	75.4	0.4			G0/660
FVH (80°-90°)	5.4	0.0			G0/10
BL (0°-30°)	3597.5	19.6	B4/5000		
BM (30°-60°)	6924.3	37.8	B4/8500		
BH (60°-80°)	792.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	35.0	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°	7909.6	7909.6	7909.6	7909.6	7909.6	7909.6	7909.6	7909.6	7909.6	7909.6
2.5°	7944.6	7893.4	7844.9	7828.7	7896.1	7968.8	7923.0	7925.7	7909.6	7939.2
5°	8003.8	7933.8	7901.5	7877.2	7888.0	7963.4	7898.8	7923.0	7896.1	7931.1
7.5°	7982.3	7933.8	7901.5	7855.7	7890.7	7979.6	7917.6	7920.3	7906.9	7939.2
10°	7968.8	7933.8	7893.4	7898.8	7939.2	8014.6	7966.1	7993.1	7974.2	7993.1
12.5°	8001.2	7963.4	7941.9	7941.9	7976.9	8063.1	8038.9	8063.1	8055.0	8071.2
15°	7696.7	7731.8	7936.5	8028.1	8098.1	8184.3	8173.6	8197.8	8203.2	8227.4
17.5°	6492.5	6457.5	6441.3	6912.8	8165.5	8432.2	8424.1	8421.4	8394.5	8375.6
20°	6651.5	6638.0	6619.1	6654.2	6794.2	8561.5	8615.4	8284.0	8187.0	8179.0
22.5°	6904.7	6883.1	6813.1	6815.8	6858.9	7443.5	8348.7	8046.9	8014.6	7995.8
25°	7028.6	6985.5	6928.9	6912.8	6926.2	6818.5	7457.0	7815.3	7656.3	7583.6
27.5°	6810.4	6813.1	6767.3	6810.4	6759.2	6274.3	6002.2	7362.7	7357.3	7325.0
30°	6646.1	6638.0	6584.1	6638.0	6285.1	5743.6	5627.7	6867.0	6810.4	6767.3
32.5°	6142.3	6147.7	6303.9	6514.1	5934.9	5506.5	5156.3	6134.2	6670.3	6646.1
35°	4393.9	4404.7	4959.6	5996.8	5404.1	5035.1	5008.1	5301.8	6449.4	6460.2
37.5°	4229.6	4229.6	4216.1	4385.8	4986.6	4843.8	4897.7	4868.0	5907.9	5934.9
40°	4111.0	4086.8	4067.9	3801.2	3467.2	4709.1	4746.8	4612.1	5584.6	5590.0
42.5°	3968.2	3941.3	3946.7	3453.7	3103.5	4375.0	4270.0	4089.5	5045.8	5051.2
45°	3706.9	3752.7	3785.1	3022.7	2995.7	3125.0	3938.6	3825.5	4682.2	4781.8
47.5°	1885.8	1926.2	2955.3	2780.2	2842.2	2777.5	3327.1	3329.8	3895.5	4226.9
50°	1710.7	1699.9	1702.6	1621.8	2623.9	2246.8	2405.7	3052.3	3119.6	3593.8
52.5°	1594.8	1592.1	1427.8	1268.9	1648.7	1977.4	1745.7	2209.1	2319.5	3044.2
55°	1180.0	1266.2	1126.1	1193.4	1031.8	1584.1	1576.0	1993.6	2031.3	2440.8
57.5°	10.8	13.5	32.3	907.9	713.9	792.0	1088.4	1360.5	1427.8	1902.0
60°	2.7	5.4	13.5	26.9	463.4	487.6	727.4	786.6	886.3	1134.2
62.5°	0.0	0.0	5.4	13.5	24.2	199.4	231.7	253.2	390.6	579.2
65°	0.0	0.0	2.7	8.1	13.5	32.3	56.6	118.5	169.7	210.1
67.5°	0.0	0.0	2.7	5.4	10.8	16.2	32.3	45.8	72.7	123.9
70°	0.0	0.0	2.7	5.4	8.1	13.5	21.6	32.3	43.1	62.0
72.5°	0.0	0.0	2.7	5.4	5.4	16.2	16.2	24.2	32.3	40.4
75°	0.0	0.0	2.7	2.7	5.4	10.8	16.2	18.9	21.6	32.3
77.5°	0.0	0.0	2.7	5.4	8.1	10.8	13.5	21.6	18.9	18.9
80°	0.0	0.0	2.7	8.1	8.1	13.5	16.2	21.6	13.5	13.5
82.5°	0.0	0.0	2.7	10.8	8.1	26.9	26.9	29.6	10.8	10.8
85°	0.0	0.0	8.1	5.4	16.2	26.9	24.2	16.2	13.5	8.1
87.5°	0.0	0.0	2.7	2.7	5.4	8.1	18.9	16.2	5.4	5.4
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°
7909.6	0°	7909.6	7909.6	7909.6	7909.6	7909.6	7909.6	7909.6	7909.6	7909.6
7861.1	2.5°	7968.8	7933.8	8006.5	7998.5	7963.4	7947.3	7928.4	7912.2	7793.7
7866.5	5°	7971.5	7917.6	8006.5	7990.4	7985.0	7958.0	7941.9	7966.1	7858.4
7888.0	7.5°	7971.5	7917.6	8014.6	8020.0	8011.9	7990.4	7987.7	8003.8	7914.9
7925.7	10°	8025.4	8003.8	8084.7	8092.7	8082.0	8076.6	8063.1	8052.3	7958.0
8055.0	12.5°	8138.5	8095.4	8187.0	8211.3	8203.2	8216.7	8184.3	8200.5	8103.5
8187.0	15°	8275.9	8278.6	8348.7	8402.6	8397.2	8440.3	8391.8	8434.9	8364.8
8337.9	17.5°	8486.1	8515.7	8615.4	8696.2	8725.8	8758.2	8725.8	8739.3	8639.6
8170.9	20°	8265.2	8375.6	8855.1	9003.3	9065.3	9094.9	9041.0	9057.2	8957.5
7966.1	22.5°	8065.8	8208.6	8634.2	9097.6	9288.9	9348.1	9329.3	9326.6	9288.9
7562.0	25°	7772.2	8060.4	8251.7	8742.0	9342.8	9450.5	9461.3	9458.6	9402.0
7314.2	27.5°	7411.2	7475.8	7971.5	8270.6	8965.6	9375.1	9358.9	9280.8	9205.4
6799.6	30°	6950.5	7244.1	7467.7	7944.6	8478.0	9143.4	9143.4	9084.1	9006.0
6616.4	32.5°	6716.1	7096.0	7303.4	7475.8	7931.1	8884.8	8992.5	8930.6	8868.6
6473.7	35°	6592.2	6648.8	7133.7	7289.9	7675.2	8386.4	8822.8	8760.9	8715.1
6093.8	37.5°	6320.1	6452.1	6678.4	7096.0	7214.5	7979.6	8596.5	8564.2	8510.3
5600.8	40°	5714.0	6066.9	6414.4	6810.4	6934.3	7457.0	8321.7	8335.2	8262.5
5075.5	42.5°	5355.7	5595.4	6139.6	6406.3	6740.4	7120.2	8055.0	8076.6	8025.4
4808.8	45°	4935.4	5202.1	5584.6	6069.6	6524.8	6656.8	7583.6	7809.9	7766.8
4278.1	47.5°	4550.1	4765.7	5234.4	5724.7	6228.5	6209.6	7042.1	7467.7	7408.5
3871.3	50°	4003.3	4380.4	4601.3	5051.2	5802.9	5854.0	6465.6	7066.3	7017.8
3289.4	52.5°	3375.6	3849.7	4272.7	4684.8	5371.8	5493.0	5929.5	6656.8	6624.5
2513.5	55°	2949.9	3294.8	3771.6	4102.9	4849.2	5172.5	5528.1	6266.2	6250.1
2066.3	57.5°	2098.6	2764.0	3157.4	3620.7	4014.0	4598.6	4862.7	5471.5	5320.6
1144.9	60°	1422.4	1734.9	2214.5	2712.8	2976.9	3561.5	3806.6	4294.2	4253.8
684.3	62.5°	751.6	1039.9	1382.0	1632.6	1823.8	2392.3	2494.6	3020.0	3006.5
274.8	65°	331.4	439.1	748.9	878.2	1074.9	1338.9	1427.8	1616.4	1570.6
134.7	67.5°	172.4	261.3	423.0	519.9	654.6	754.3	827.1	886.3	924.0
88.9	70°	105.1	191.3	261.3	361.0	449.9	530.7	587.3	668.1	716.6
45.8	72.5°	78.1	121.2	180.5	277.5	326.0	420.3	476.8	536.1	579.2
37.7	75°	43.1	80.8	145.5	218.2	261.3	342.1	393.3	433.7	447.2
21.6	77.5°	26.9	62.0	121.2	169.7	204.7	277.5	264.0	301.7	334.1
16.2	80°	18.9	45.8	94.3	140.1	142.8	177.8	210.1	242.5	264.0
10.8	82.5°	13.5	37.7	70.0	107.8	94.3	137.4	164.3	188.6	137.4
8.1	85°	10.8	26.9	35.0	64.7	53.9	97.0	83.5	80.8	53.9
5.4	87.5°	8.1	13.5	24.2	29.6	21.6	21.6	26.9	32.3	26.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7909.6
7712.9
7766.8
7812.6
7879.9
8017.3
8249.0
8553.4
8887.5
9167.6
9315.8
9146.1
8976.4
8817.4
8650.4
8456.4
8246.3
8020.0
7772.2
7451.6
7025.9
6646.1
6268.9
5304.5
4256.5
3009.2
1551.7
924.0
719.3
587.3
439.1
339.4
266.7
99.7
53.9
26.9
0.0

(END OF REPORT)