

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: P638398

Luminaire Tested: **IFLD-S-SA3D-735-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638398
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3D-735-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16942.8 lumens
Efficiency: N/A
Efficacy: 92.0 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

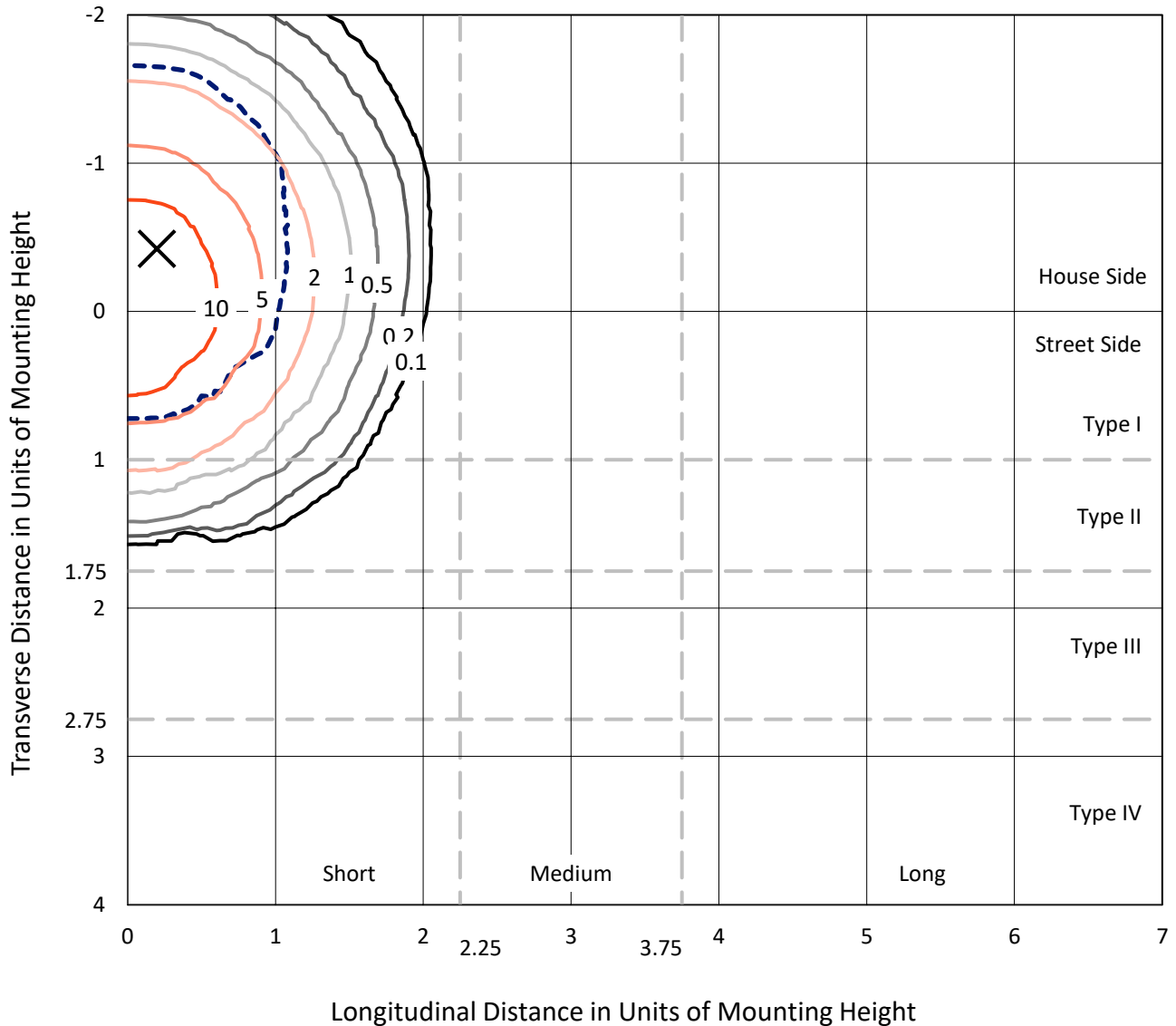
Input Watts (W): 184.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

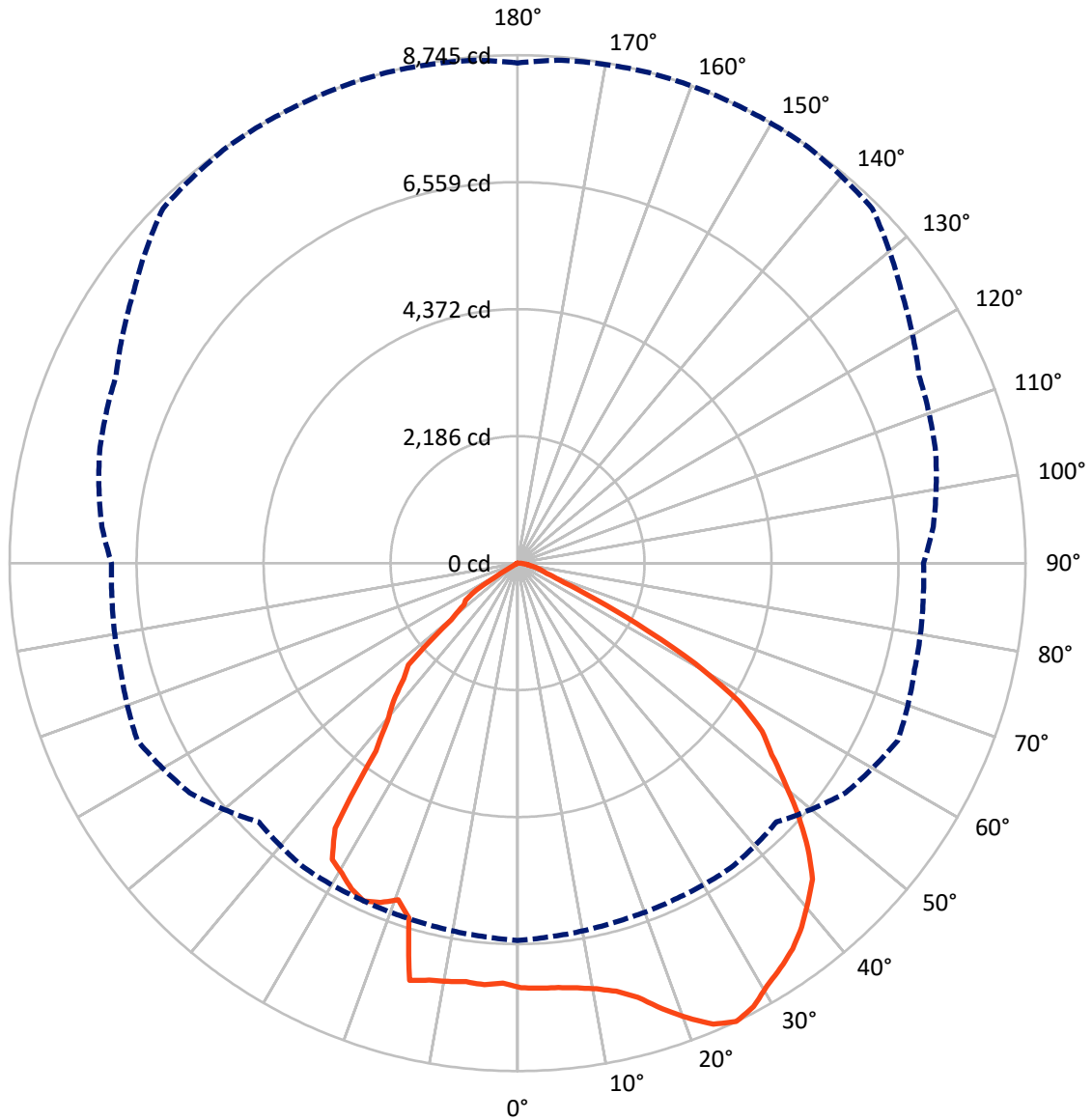
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18.3 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	10489.3	0.0	10489.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6453.5	0.0	6453.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	16942.8	0.0	16942.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.3	4.1
10°-20°	2141.5	12.6
20°-30°	3385.6	20.0
30°-40°	3824.4	22.6
40°-50°	3581.6	21.1
50°-60°	2469.3	14.6
60°-70°	663.4	3.9
70°-80°	138.2	0.8
80°-90°	37.4	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°	16942.8	100.0
0°-180°	16942.8	100.0



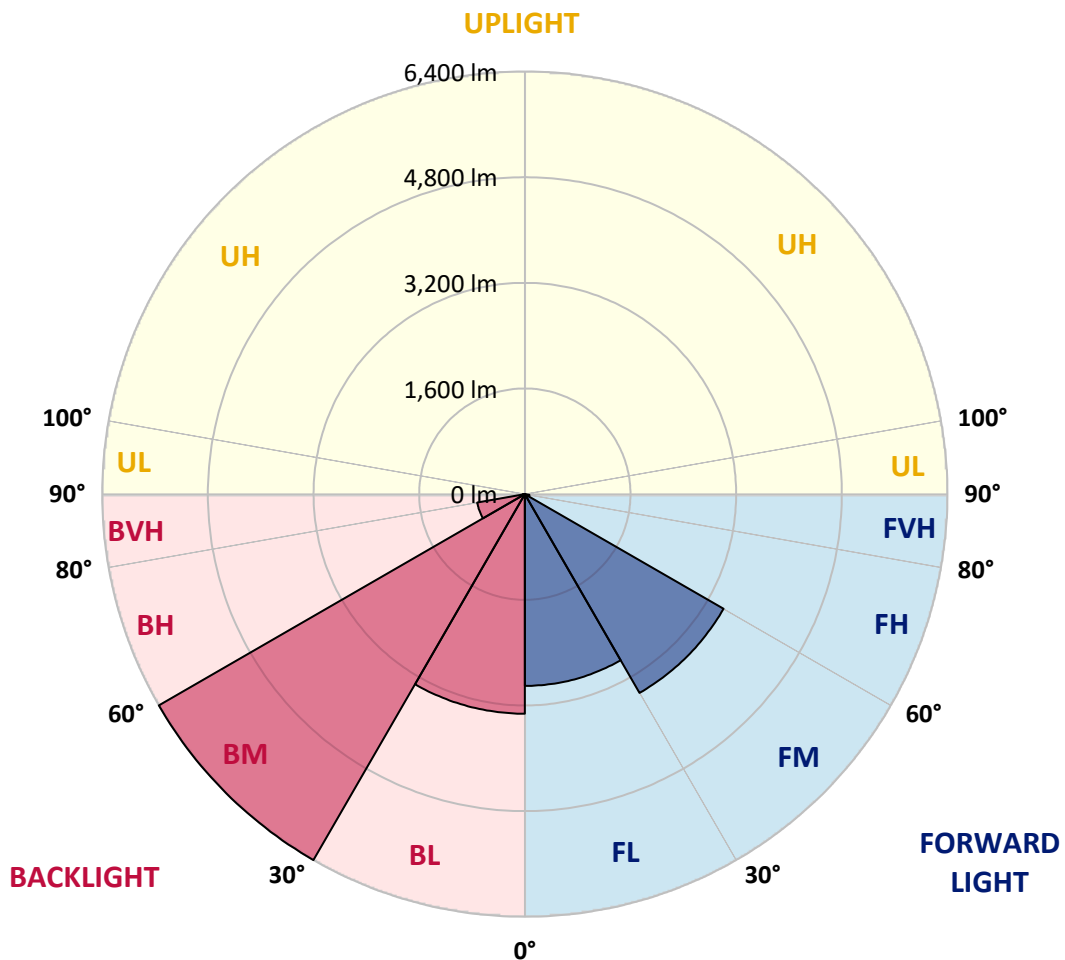
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2903.5	17.1			
FM (30°-60°)	3475.3	20.5			
FH (60°-80°)	69.6	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	3325.1	19.6	B4/5000		
BM (30°-60°)	6399.9	37.8	B4/8500		
BH (60°-80°)	732.0	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.4	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°	7310.5	7310.5	7310.5	7310.5	7310.5	7310.5	7310.5	7310.5	7310.5	7310.5
2.5°	7342.9	7295.6	7250.7	7235.8	7298.1	7365.3	7323.0	7325.4	7310.5	7337.9
5°	7397.7	7332.9	7303.0	7280.6	7290.6	7360.3	7300.5	7323.0	7298.1	7330.4
7.5°	7377.7	7332.9	7303.0	7260.7	7293.1	7375.2	7318.0	7320.5	7308.0	7337.9
10°	7365.3	7332.9	7295.6	7300.5	7337.9	7407.6	7362.8	7387.7	7370.3	7387.7
12.5°	7395.2	7360.3	7340.4	7340.4	7372.8	7452.4	7430.0	7452.4	7445.0	7459.9
15°	7113.8	7146.2	7335.4	7420.1	7484.8	7564.5	7554.5	7576.9	7581.9	7604.3
17.5°	6000.8	5968.4	5953.5	6389.2	7547.1	7793.6	7786.1	7783.6	7758.7	7741.3
20°	6147.7	6135.2	6117.8	6150.2	6279.7	7913.1	7962.9	7656.6	7567.0	7559.5
22.5°	6381.8	6361.8	6297.1	6299.6	6339.4	6879.7	7716.4	7437.5	7407.6	7390.2
25°	6496.3	6456.5	6404.2	6389.2	6401.7	6302.1	6892.2	7223.4	7076.5	7009.2
27.5°	6294.6	6297.1	6254.8	6294.6	6247.3	5799.1	5547.6	6805.0	6800.1	6770.2
30°	6142.7	6135.2	6085.4	6135.2	5809.1	5308.6	5201.5	6346.9	6294.6	6254.8
32.5°	5677.1	5682.1	5826.5	6020.7	5485.4	5089.5	4765.8	5669.6	6165.1	6142.7
35°	4061.1	4071.1	4584.0	5542.6	4994.8	4653.7	4628.8	4900.2	5961.0	5970.9
37.5°	3909.2	3909.2	3896.8	4053.6	4608.9	4476.9	4526.7	4499.3	5460.5	5485.4
40°	3799.7	3777.3	3759.8	3513.3	3204.6	4352.4	4387.3	4262.8	5161.7	5166.7
42.5°	3667.7	3642.8	3647.8	3192.1	2868.4	4043.7	3946.6	3779.8	4663.7	4668.7
45°	3426.2	3468.5	3498.4	2793.7	2768.8	2888.3	3640.3	3535.7	4327.5	4419.7
47.5°	1743.0	1780.3	2731.5	2569.6	2626.9	2567.1	3075.1	3077.6	3600.5	3906.7
50°	1581.1	1571.2	1573.7	1499.0	2425.2	2076.6	2223.5	2821.1	2883.4	3321.6
52.5°	1474.1	1471.6	1319.7	1172.8	1523.9	1827.6	1613.5	2041.8	2143.9	2813.6
55°	1090.6	1170.3	1040.8	1103.0	953.7	1464.1	1456.6	1842.6	1877.4	2255.9
57.5°	10.0	12.4	29.9	839.1	659.8	732.0	1005.9	1257.4	1319.7	1757.9
60°	2.5	5.0	12.4	24.9	428.3	450.7	672.3	727.1	819.2	1048.3
62.5°	0.0	0.0	5.0	12.4	22.4	184.3	214.1	234.1	361.0	535.3
65°	0.0	0.0	2.5	7.5	12.4	29.9	52.3	109.6	156.9	194.2
67.5°	0.0	0.0	2.5	5.0	10.0	14.9	29.9	42.3	67.2	114.5
70°	0.0	0.0	2.5	5.0	7.5	12.4	19.9	29.9	39.8	57.3
72.5°	0.0	0.0	2.5	5.0	5.0	14.9	14.9	22.4	29.9	37.3
75°	0.0	0.0	2.5	2.5	5.0	10.0	14.9	17.4	19.9	29.9
77.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.4	19.9	17.4	17.4
80°	0.0	0.0	2.5	7.5	7.5	12.4	14.9	19.9	12.4	12.4
82.5°	0.0	0.0	2.5	10.0	7.5	24.9	24.9	27.4	10.0	10.0
85°	0.0	0.0	7.5	5.0	14.9	24.9	22.4	14.9	12.4	7.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	17.4	14.9	5.0	5.0
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°
7310.5	0°	7310.5	7310.5	7310.5	7310.5	7310.5	7310.5	7310.5	7310.5	7310.5
7265.7	2.5°	7365.3	7332.9	7400.1	7392.7	7360.3	7345.4	7327.9	7313.0	7203.4
7270.7	5°	7367.8	7318.0	7400.1	7385.2	7380.2	7355.3	7340.4	7362.8	7263.2
7290.6	7.5°	7367.8	7318.0	7407.6	7412.6	7405.1	7385.2	7382.7	7397.7	7315.5
7325.4	10°	7417.6	7397.7	7472.4	7479.8	7469.9	7464.9	7452.4	7442.5	7355.3
7445.0	12.5°	7522.2	7482.3	7567.0	7589.4	7581.9	7594.4	7564.5	7579.4	7489.8
7567.0	15°	7649.1	7651.6	7716.4	7766.2	7761.2	7801.0	7756.2	7796.0	7731.3
7706.4	17.5°	7843.4	7870.7	7962.9	8037.6	8065.0	8094.8	8065.0	8077.4	7985.3
7552.0	20°	7639.2	7741.3	8184.5	8321.4	8378.7	8406.1	8356.3	8371.2	8279.1
7362.8	22.5°	7454.9	7586.9	7980.3	8408.6	8585.4	8640.1	8622.7	8620.2	8585.4
6989.3	25°	7183.5	7449.9	7626.7	8079.9	8635.2	8734.8	8744.7	8742.2	8689.9
6760.2	27.5°	6849.9	6909.6	7367.8	7644.2	8286.6	8665.0	8650.1	8577.9	8508.2
6284.6	30°	6424.1	6695.5	6902.2	7342.9	7835.9	8450.9	8450.9	8396.1	8323.9
6115.3	32.5°	6207.5	6558.5	6750.3	6909.6	7330.4	8211.9	8311.5	8254.2	8196.9
5983.4	35°	6092.9	6145.2	6593.4	6737.8	7093.9	7751.2	8154.6	8097.3	8055.0
5632.3	37.5°	5841.4	5963.4	6172.6	6558.5	6668.1	7375.2	7945.4	7915.6	7865.8
5176.6	40°	5281.2	5607.4	5928.6	6294.6	6409.1	6892.2	7691.5	7703.9	7636.7
4691.1	42.5°	4950.0	5171.6	5674.6	5921.1	6229.9	6581.0	7445.0	7464.9	7417.6
4444.6	45°	4561.6	4808.1	5161.7	5609.9	6030.7	6152.7	7009.2	7218.4	7178.5
3954.0	47.5°	4205.5	4404.7	4838.0	5291.2	5756.8	5739.3	6508.7	6902.2	6847.4
3578.1	50°	3700.1	4048.7	4252.8	4668.7	5363.4	5410.7	5975.9	6531.2	6486.3
3040.2	52.5°	3119.9	3558.1	3949.1	4330.0	4965.0	5077.0	5480.4	6152.7	6122.8
2323.1	55°	2726.5	3045.2	3485.9	3792.2	4481.9	4780.7	5109.4	5791.6	5776.7
1909.8	57.5°	1939.7	2554.7	2918.2	3346.5	3710.0	4250.4	4494.4	5057.1	4917.7
1058.2	60°	1314.7	1603.5	2046.7	2507.4	2751.4	3291.7	3518.3	3969.0	3931.6
632.4	62.5°	694.7	961.1	1277.3	1508.9	1685.7	2211.1	2305.7	2791.2	2778.8
254.0	65°	306.3	405.9	692.2	811.7	993.5	1237.5	1319.7	1494.0	1451.6
124.5	67.5°	159.4	241.5	390.9	480.6	605.1	697.2	764.4	819.2	854.1
82.2	70°	97.1	176.8	241.5	333.7	415.8	490.5	542.8	617.5	662.3
42.3	72.5°	72.2	112.0	166.8	256.5	301.3	388.4	440.7	495.5	535.3
34.9	75°	39.8	74.7	134.5	201.7	241.5	316.2	363.5	400.9	413.3
19.9	77.5°	24.9	57.3	112.0	156.9	189.2	256.5	244.0	278.9	308.8
14.9	80°	17.4	42.3	87.1	129.5	132.0	164.3	194.2	224.1	244.0
10.0	82.5°	12.4	34.9	64.7	99.6	87.1	127.0	151.9	174.3	127.0
7.5	85°	10.0	24.9	32.4	59.8	49.8	89.6	77.2	74.7	49.8
5.0	87.5°	7.5	12.4	22.4	27.4	19.9	19.9	24.9	29.9	24.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7310.5
7128.7
7178.5
7220.9
7283.1
7410.1
7624.2
7905.6
8214.4
8473.3
8610.3
8453.4
8296.5
8149.6
7995.2
7816.0
7621.8
7412.6
7183.5
6887.2
6493.8
6142.7
5794.1
4902.7
3934.1
2781.3
1434.2
854.1
664.8
542.8
405.9
313.7
246.5
92.1
49.8
24.9
0.0

(END OF REPORT)