

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: P638526

Luminaire Tested: **IFLD-L-SA7A-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638526
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16958.5 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

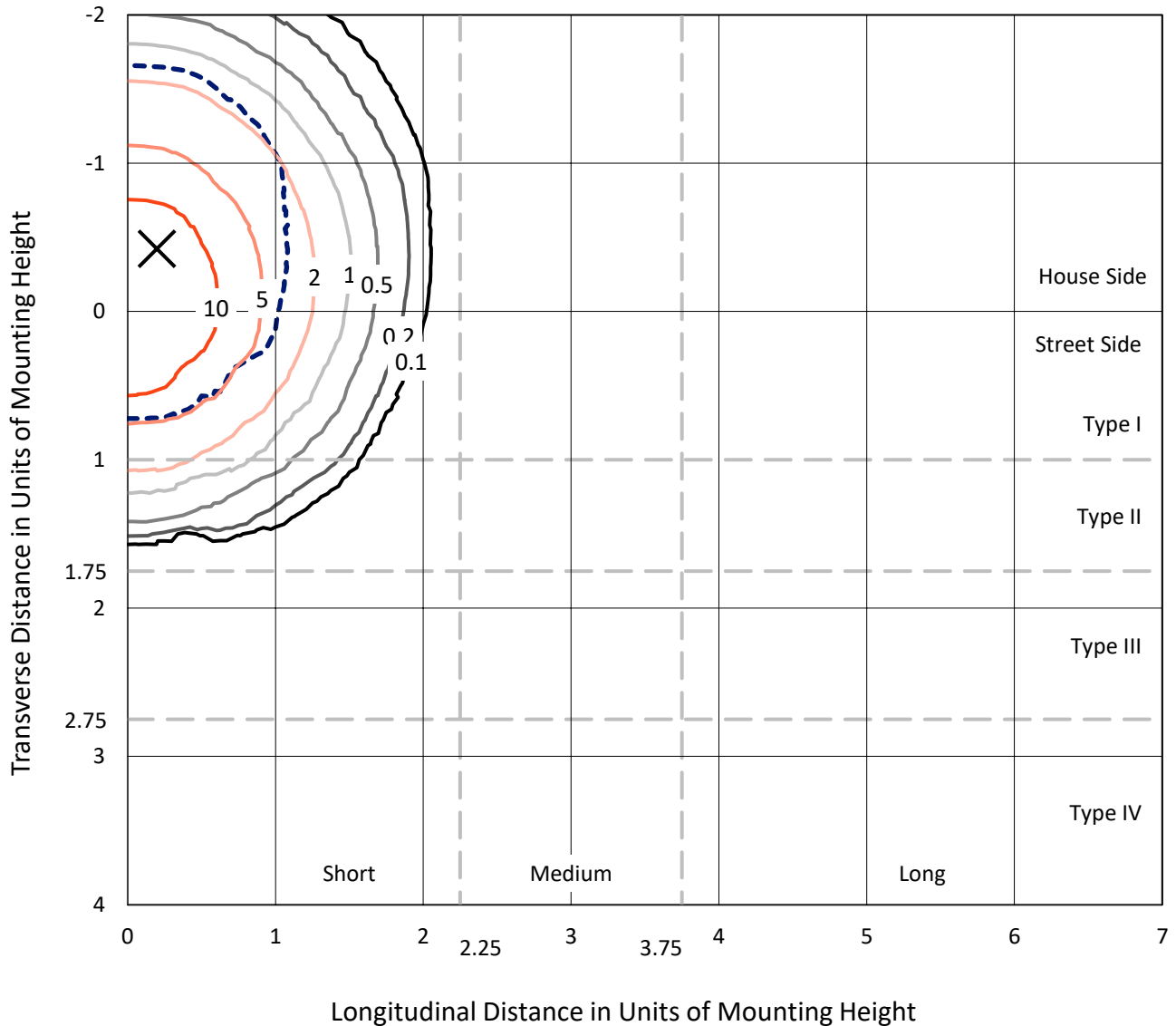
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

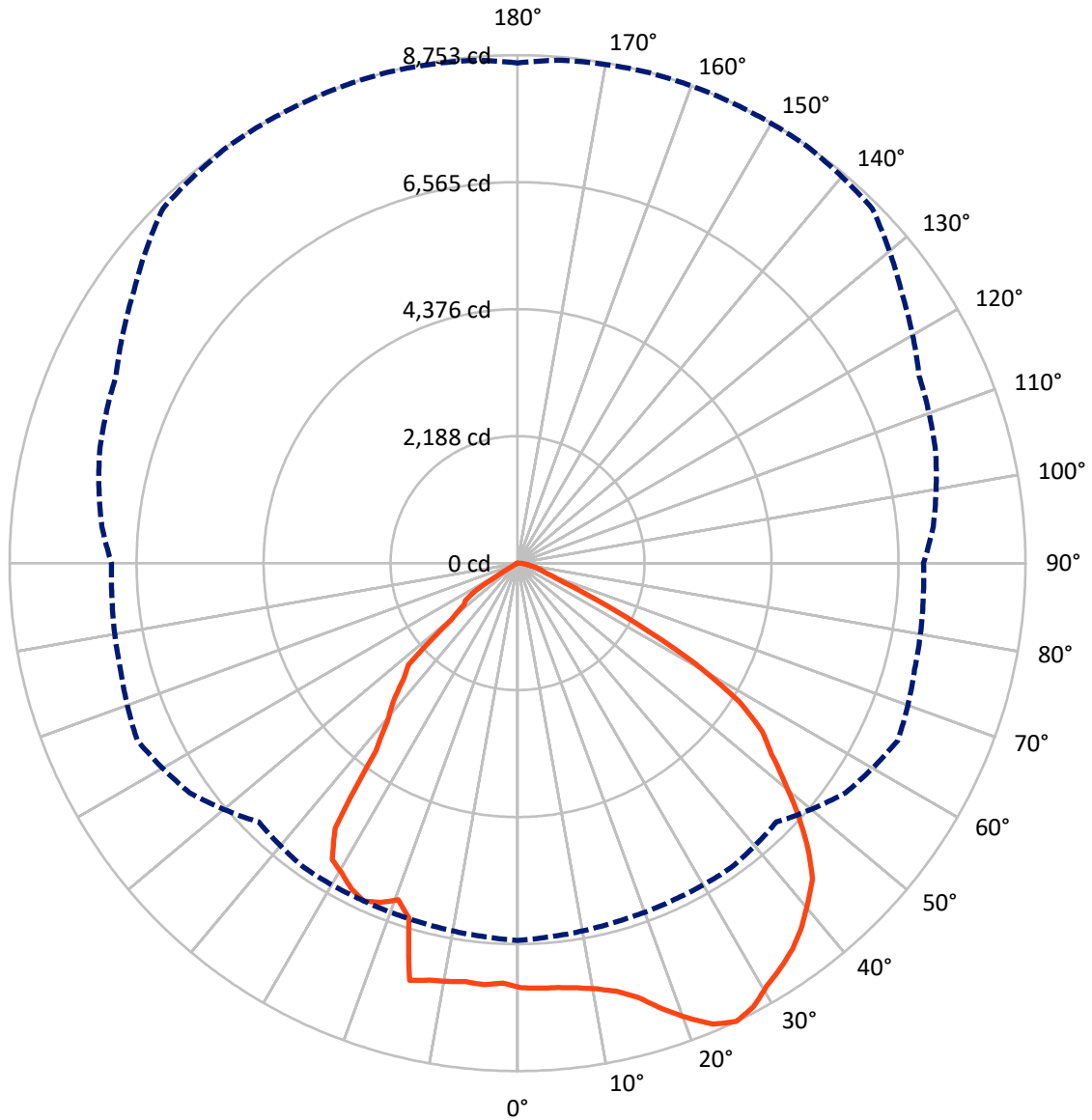
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 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	10499.0	0.0	10499.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6459.5	0.0	6459.5
	% Fixture	38.1	0.0	38.1
Total	Lumens	16958.5	0.0	16958.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	702.0	4.1
10°-20°	2143.5	12.6
20°-30°	3388.8	20.0
30°-40°	3827.9	22.6
40°-50°	3584.9	21.1
50°-60°	2471.5	14.6
60°-70°	664.0	3.9
70°-80°	138.4	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°	16958.5	100.0
0°-180°	16958.5	100.0



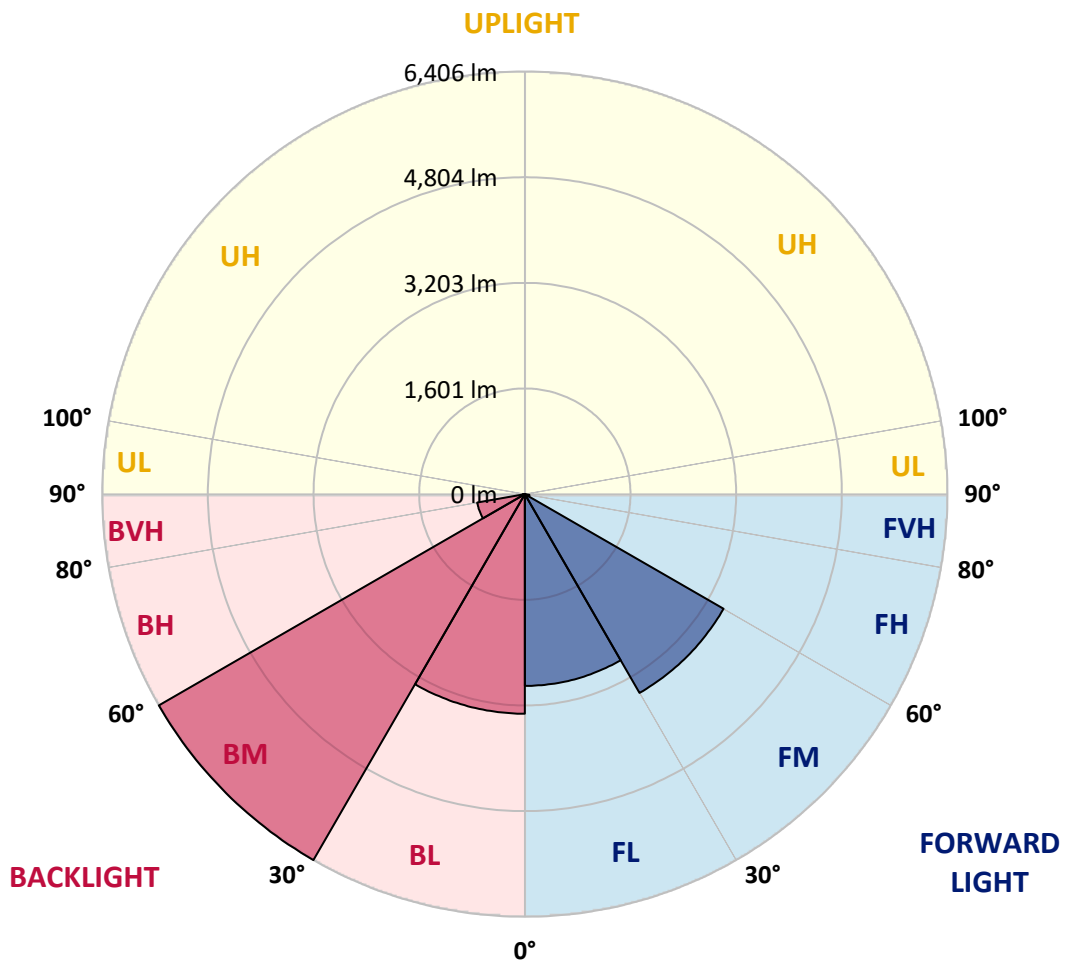
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2906.1	17.1			
FM (30°-60°)	3478.6	20.5			
FH (60°-80°)	69.7	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	3328.1	19.6	B4/5000		
BM (30°-60°)	6405.8	37.8	B4/8500		
BH (60°-80°)	732.7	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°	7317.3	7317.3	7317.3	7317.3	7317.3	7317.3	7317.3	7317.3	7317.3	7317.3
2.5°	7349.7	7302.3	7257.5	7242.5	7304.8	7372.1	7329.7	7332.2	7317.3	7344.7
5°	7404.5	7339.7	7309.8	7287.4	7297.3	7367.1	7307.3	7329.7	7304.8	7337.2
7.5°	7384.6	7339.7	7309.8	7267.4	7299.8	7382.1	7324.8	7327.3	7314.8	7344.7
10°	7372.1	7339.7	7302.3	7307.3	7344.7	7414.5	7369.6	7394.5	7377.1	7394.5
12.5°	7402.0	7367.1	7347.2	7347.2	7379.6	7459.3	7436.9	7459.3	7451.9	7466.8
15°	7120.4	7152.8	7342.2	7426.9	7491.7	7571.5	7561.5	7584.0	7588.9	7611.4
17.5°	6006.4	5974.0	5959.0	6395.1	7554.0	7800.8	7793.3	7790.8	7765.9	7748.4
20°	6153.4	6140.9	6123.5	6155.9	6285.5	7920.4	7970.3	7663.7	7574.0	7566.5
22.5°	6387.7	6367.7	6302.9	6305.4	6345.3	6886.1	7723.5	7444.4	7414.5	7397.0
25°	6502.3	6462.4	6410.1	6395.1	6407.6	6307.9	6898.6	7230.1	7083.0	7015.7
27.5°	6300.4	6302.9	6260.6	6300.4	6253.1	5804.5	5552.8	6811.4	6806.4	6776.5
30°	6148.4	6140.9	6091.1	6140.9	5814.4	5313.5	5206.3	6352.8	6300.4	6260.6
32.5°	5682.4	5687.3	5831.9	6026.3	5490.5	5094.2	4770.2	5674.9	6170.8	6148.4
35°	4064.9	4074.9	4588.3	5547.8	4999.5	4658.0	4633.1	4904.8	5966.5	5976.4
37.5°	3912.9	3912.9	3900.4	4057.4	4613.2	4481.1	4530.9	4503.5	5465.5	5490.5
40°	3803.2	3780.8	3763.3	3516.6	3207.5	4356.5	4391.4	4266.8	5166.5	5171.4
42.5°	3671.1	3646.2	3651.2	3195.1	2871.1	4047.4	3950.2	3783.3	4668.0	4673.0
45°	3429.4	3471.7	3501.6	2796.3	2771.4	2891.0	3643.7	3539.0	4331.6	4423.8
47.5°	1744.6	1782.0	2734.0	2572.0	2629.3	2569.5	3077.9	3080.4	3603.8	3910.4
50°	1582.6	1572.6	1575.1	1500.3	2427.5	2078.5	2225.6	2823.7	2886.0	3324.7
52.5°	1475.4	1472.9	1320.9	1173.9	1525.3	1829.3	1615.0	2043.7	2145.8	2816.3
55°	1091.6	1171.4	1041.8	1104.1	954.5	1465.5	1458.0	1844.3	1879.2	2258.0
57.5°	10.0	12.5	29.9	839.9	660.4	732.7	1006.9	1258.6	1320.9	1759.5
60°	2.5	5.0	12.5	24.9	428.7	451.1	672.9	727.7	820.0	1049.2
62.5°	0.0	0.0	5.0	12.5	22.4	184.4	214.3	234.3	361.4	535.8
65°	0.0	0.0	2.5	7.5	12.5	29.9	52.3	109.7	157.0	194.4
67.5°	0.0	0.0	2.5	5.0	10.0	15.0	29.9	42.4	67.3	114.6
70°	0.0	0.0	2.5	5.0	7.5	12.5	19.9	29.9	39.9	57.3
72.5°	0.0	0.0	2.5	5.0	5.0	15.0	15.0	22.4	29.9	37.4
75°	0.0	0.0	2.5	2.5	5.0	10.0	15.0	17.4	19.9	29.9
77.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	19.9	17.4	17.4
80°	0.0	0.0	2.5	7.5	7.5	12.5	15.0	19.9	12.5	12.5
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	15.0	24.9	22.4	15.0	12.5	7.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	17.4	15.0	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°
7317.3	0°	7317.3	7317.3	7317.3	7317.3	7317.3	7317.3	7317.3	7317.3	7317.3
7272.4	2.5°	7372.1	7339.7	7407.0	7399.5	7367.1	7352.2	7334.7	7319.8	7210.1
7277.4	5°	7374.6	7324.8	7407.0	7392.1	7387.1	7362.1	7347.2	7369.6	7269.9
7297.3	7.5°	7374.6	7324.8	7414.5	7419.5	7412.0	7392.1	7389.6	7404.5	7322.3
7332.2	10°	7424.5	7404.5	7479.3	7486.8	7476.8	7471.8	7459.3	7449.4	7362.1
7451.9	12.5°	7529.1	7489.3	7574.0	7596.4	7588.9	7601.4	7571.5	7586.4	7496.7
7574.0	15°	7656.2	7658.7	7723.5	7773.4	7768.4	7808.3	7763.4	7803.3	7738.5
7713.6	17.5°	7850.6	7878.0	7970.3	8045.0	8072.4	8102.3	8072.4	8084.9	7992.7
7559.0	20°	7646.3	7748.4	8192.1	8329.1	8386.5	8413.9	8364.0	8379.0	8286.8
7369.6	22.5°	7461.8	7593.9	7987.7	8416.4	8593.3	8648.2	8630.7	8628.2	8593.3
6995.8	25°	7190.2	7456.9	7633.8	8087.4	8643.2	8742.9	8752.8	8750.3	8698.0
6766.5	27.5°	6856.2	6916.0	7374.6	7651.2	8294.3	8673.1	8658.1	8585.8	8516.1
6290.5	30°	6430.0	6701.7	6908.6	7349.7	7843.2	8458.7	8458.7	8403.9	8331.6
6121.0	32.5°	6213.2	6564.6	6756.5	6916.0	7337.2	8219.5	8319.2	8261.9	8204.5
5988.9	35°	6098.6	6150.9	6599.5	6744.1	7100.5	7758.4	8162.2	8104.8	8062.5
5637.5	37.5°	5846.8	5969.0	6178.3	6564.6	6674.3	7382.1	7952.8	7922.9	7873.1
5181.4	40°	5286.1	5612.6	5934.1	6300.4	6415.1	6898.6	7698.6	7711.1	7643.8
4695.4	42.5°	4954.6	5176.4	5679.9	5926.6	6235.6	6587.1	7451.9	7471.8	7424.5
4448.7	45°	4565.8	4812.6	5166.5	5615.1	6036.3	6158.4	7015.7	7225.1	7185.2
3957.7	47.5°	4209.4	4408.8	4842.5	5296.1	5762.1	5744.7	6514.8	6908.6	6853.7
3581.4	50°	3703.5	4052.4	4256.8	4673.0	5368.3	5415.7	5981.4	6537.2	6492.3
3043.1	52.5°	3122.8	3561.4	3952.7	4334.0	4969.6	5081.7	5485.5	6158.4	6128.5
2325.3	55°	2729.0	3048.0	3489.2	3795.7	4486.1	4785.1	5114.1	5797.0	5782.1
1911.6	57.5°	1941.5	2557.1	2920.9	3349.6	3713.5	4254.3	4498.5	5061.8	4922.2
1059.2	60°	1315.9	1605.0	2048.6	2509.7	2754.0	3294.8	3521.6	3972.7	3935.3
633.0	62.5°	695.3	962.0	1278.5	1510.3	1687.3	2213.1	2307.8	2793.8	2781.4
254.2	65°	306.5	406.2	692.8	812.5	994.4	1238.7	1320.9	1495.4	1453.0
124.6	67.5°	159.5	241.7	391.3	481.0	605.6	697.8	765.1	820.0	854.8
82.2	70°	97.2	177.0	241.7	334.0	416.2	491.0	543.3	618.1	662.9
42.4	72.5°	72.3	112.2	167.0	256.7	301.6	388.8	441.1	496.0	535.8
34.9	75°	39.9	74.8	134.6	201.9	241.7	316.5	363.9	401.3	413.7
19.9	77.5°	24.9	57.3	112.2	157.0	189.4	256.7	244.2	279.1	309.0
15.0	80°	17.4	42.4	87.2	129.6	132.1	164.5	194.4	224.3	244.2
10.0	82.5°	12.5	34.9	64.8	99.7	87.2	127.1	152.0	174.5	127.1
7.5	85°	10.0	24.9	32.4	59.8	49.8	89.7	77.3	74.8	49.8
5.0	87.5°	7.5	12.5	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°
7317.3
7135.3
7185.2
7227.6
7289.9
7417.0
7631.3
7912.9
8222.0
8481.2
8618.2
8461.2
8304.2
8157.2
8002.7
7823.2
7628.8
7419.5
7190.2
6893.6
6499.8
6148.4
5799.5
4907.3
3937.8
2783.9
1435.5
854.8
665.4
543.3
406.2
314.0
246.7
92.2
49.8
24.9
0.0

(END OF REPORT)