

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: P638323

Luminaire Tested: **IFLD-L-SA7A-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638323
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16993.1 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

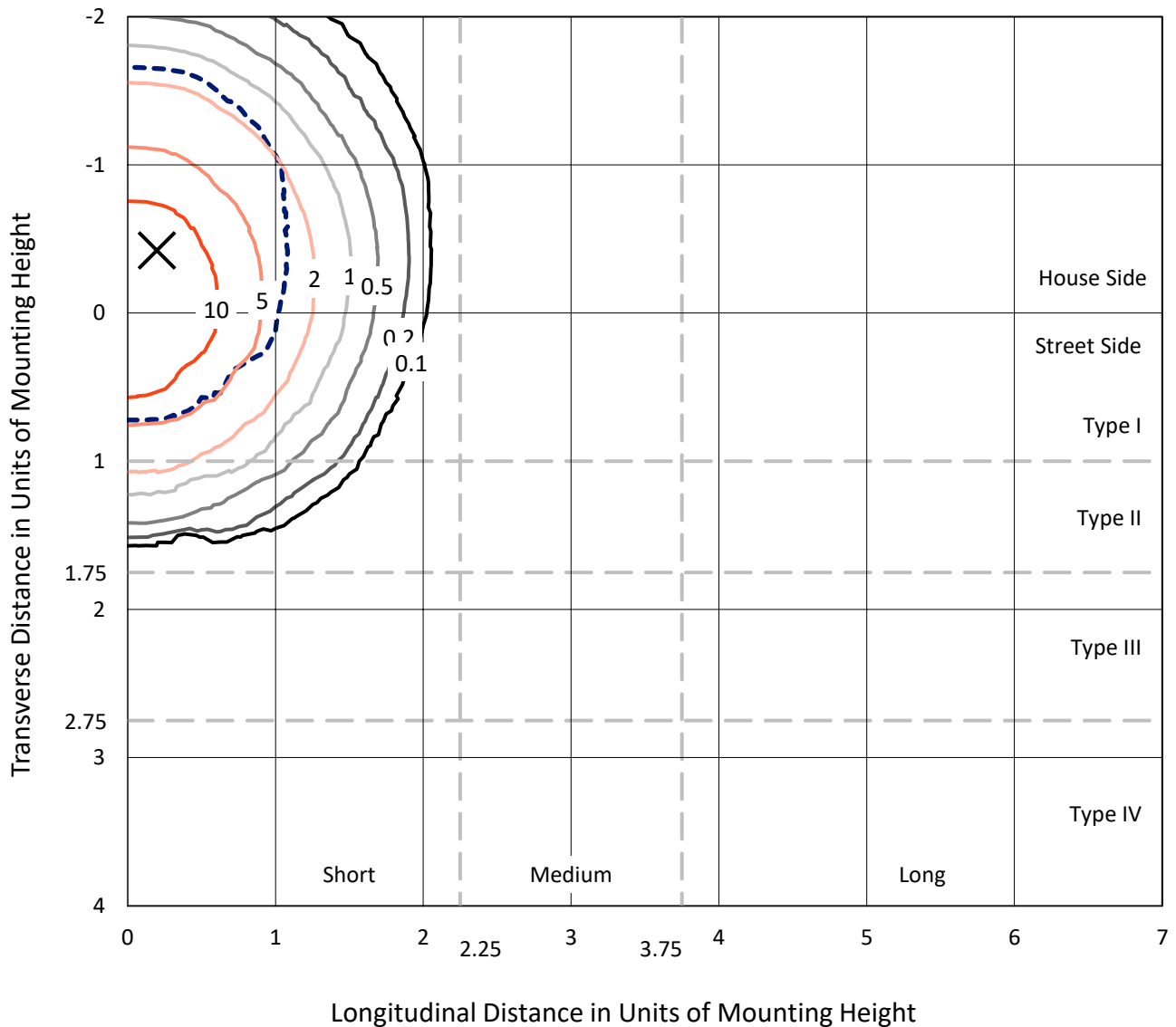
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

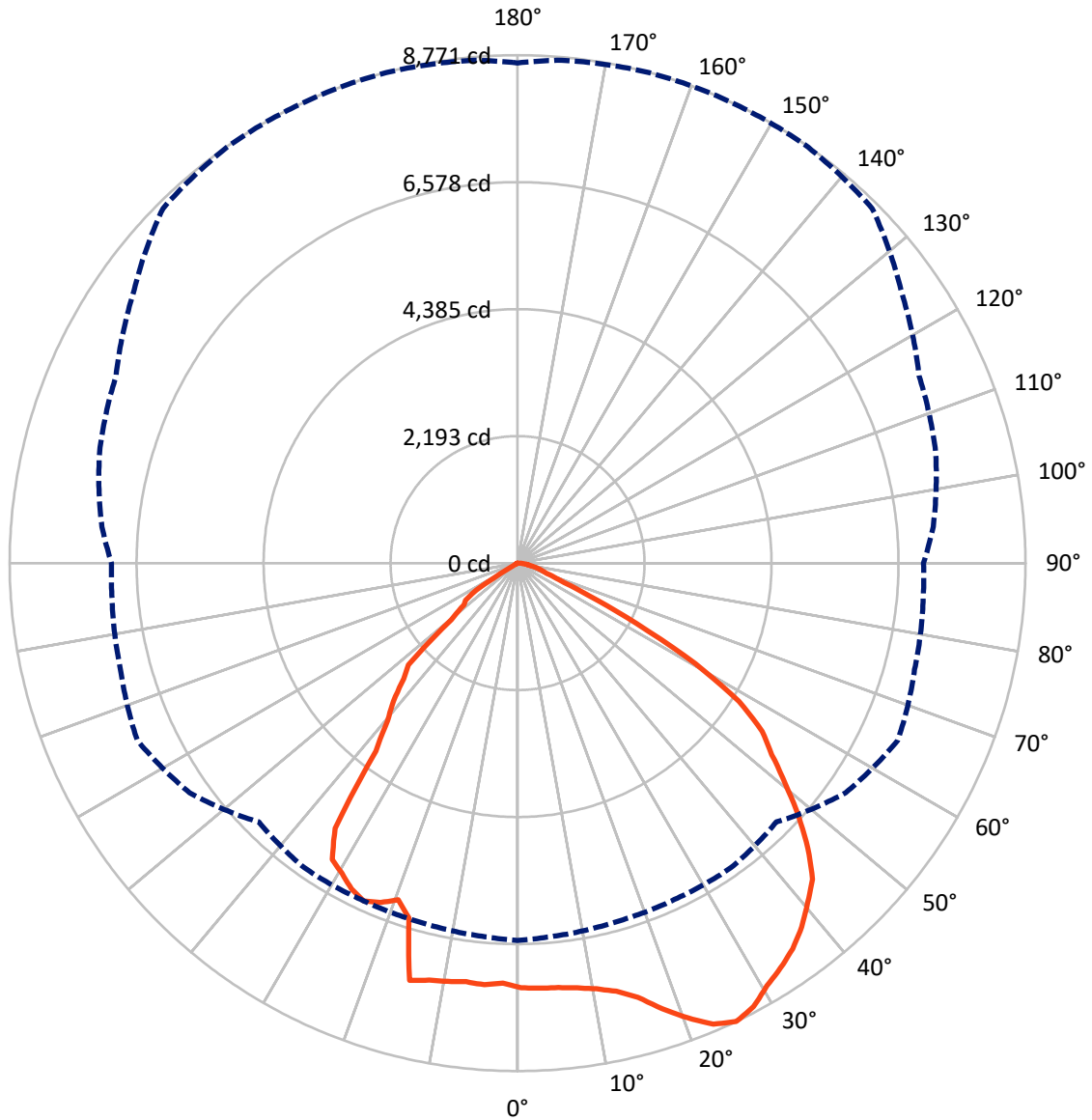
× Max cd
 - - - 1/2 Max cd



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	10520.5	0.0	10520.5
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6472.6	0.0	6472.6
	% Fixture	38.1	0.0	38.1
Total	Lumens	16993.1	0.0	16993.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	703.4	4.1
10°-20°	2147.9	12.6
20°-30°	3395.7	20.0
30°-40°	3835.7	22.6
40°-50°	3592.2	21.1
50°-60°	2476.6	14.6
60°-70°	665.4	3.9
70°-80°	138.7	0.8
80°-90°	37.5	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°	16993.1	100.0
0°-180°	16993.1	100.0



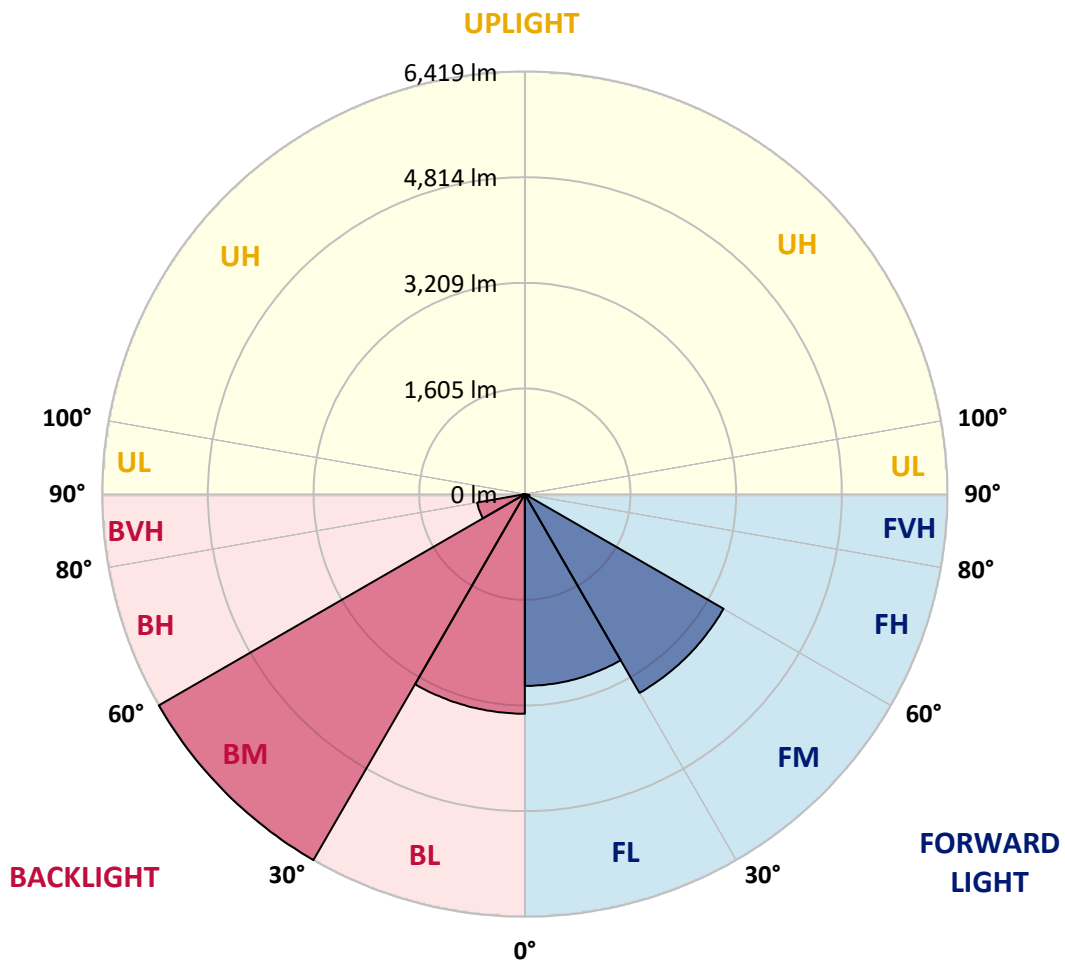
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2912.1	17.1			
FM (30°-60°)	3485.7	20.5			
FH (60°-80°)	69.9	0.4			G0/660
FVH (80°-90°)	5.0	0.0			G0/10
BL (0°-30°)	3334.9	19.6	B4/5000		
BM (30°-60°)	6418.9	37.8	B4/8500		
BH (60°-80°)	734.2	4.3	B2/1000		G2/1000
BVH (80°-90°)	32.5	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°	7332.2	7332.2	7332.2	7332.2	7332.2	7332.2	7332.2	7332.2	7332.2	7332.2
2.5°	7364.7	7317.2	7272.3	7257.3	7319.7	7387.2	7344.7	7347.2	7332.2	7359.7
5°	7419.6	7354.7	7324.7	7302.2	7312.2	7382.2	7322.2	7344.7	7319.7	7352.2
7.5°	7399.6	7354.7	7324.7	7282.3	7314.7	7397.1	7339.7	7342.2	7329.7	7359.7
10°	7387.2	7354.7	7317.2	7322.2	7359.7	7429.6	7384.7	7409.6	7392.2	7409.6
12.5°	7417.1	7382.2	7362.2	7362.2	7394.6	7474.6	7452.1	7474.6	7467.1	7482.1
15°	7134.9	7167.4	7357.2	7442.1	7507.0	7586.9	7577.0	7599.4	7604.4	7626.9
17.5°	6018.6	5986.1	5971.2	6408.2	7569.5	7816.7	7809.2	7806.7	7781.7	7764.3
20°	6166.0	6153.5	6136.0	6168.5	6298.3	7936.6	7986.5	7679.3	7589.4	7582.0
22.5°	6400.7	6380.7	6315.8	6318.3	6358.2	6900.2	7739.3	7459.6	7429.6	7412.1
25°	6515.6	6475.6	6423.2	6408.2	6420.7	6320.8	6912.7	7244.8	7097.5	7030.0
27.5°	6313.3	6315.8	6273.3	6313.3	6265.8	5816.3	5564.1	6825.3	6820.3	6790.3
30°	6161.0	6153.5	6103.5	6153.5	5826.3	5324.3	5217.0	6365.7	6313.3	6273.3
32.5°	5694.0	5698.9	5843.8	6038.6	5501.7	5104.6	4779.9	5686.5	6183.4	6161.0
35°	4073.2	4083.2	4597.6	5559.1	5009.7	4667.5	4642.6	4914.8	5978.7	5988.6
37.5°	3920.8	3920.8	3908.4	4065.7	4622.6	4490.2	4540.2	4512.7	5476.7	5501.7
40°	3811.0	3788.5	3771.0	3523.8	3214.1	4365.4	4400.3	4275.5	5177.0	5182.0
42.5°	3678.6	3653.6	3658.6	3201.6	2876.9	4055.7	3958.3	3791.0	4677.5	4682.5
45°	3436.4	3478.8	3508.8	2802.0	2777.1	2896.9	3651.1	3546.2	4340.4	4432.8
47.5°	1748.1	1785.6	2739.6	2577.3	2634.7	2574.8	3084.2	3086.7	3611.2	3918.3
50°	1585.8	1575.8	1578.3	1503.4	2432.4	2082.8	2230.1	2829.5	2891.9	3331.5
52.5°	1478.4	1475.9	1323.6	1176.3	1528.4	1833.1	1618.3	2047.8	2150.2	2822.0
55°	1093.8	1173.8	1043.9	1106.3	956.5	1468.4	1460.9	1848.0	1883.0	2262.6
57.5°	10.0	12.5	30.0	841.6	661.8	734.2	1008.9	1261.2	1323.6	1763.1
60°	2.5	5.0	12.5	25.0	429.5	452.0	674.3	729.2	821.6	1051.4
62.5°	0.0	0.0	5.0	12.5	22.5	184.8	214.8	234.8	362.1	536.9
65°	0.0	0.0	2.5	7.5	12.5	30.0	52.4	109.9	157.3	194.8
67.5°	0.0	0.0	2.5	5.0	10.0	15.0	30.0	42.5	67.4	114.9
70°	0.0	0.0	2.5	5.0	7.5	12.5	20.0	30.0	40.0	57.4
72.5°	0.0	0.0	2.5	5.0	5.0	15.0	15.0	22.5	30.0	37.5
75°	0.0	0.0	2.5	2.5	5.0	10.0	15.0	17.5	20.0	30.0
77.5°	0.0	0.0	2.5	5.0	7.5	10.0	12.5	20.0	17.5	17.5
80°	0.0	0.0	2.5	7.5	7.5	12.5	15.0	20.0	12.5	12.5
82.5°	0.0	0.0	2.5	10.0	7.5	25.0	25.0	27.5	10.0	10.0
85°	0.0	0.0	7.5	5.0	15.0	25.0	22.5	15.0	12.5	7.5
87.5°	0.0	0.0	2.5	2.5	5.0	7.5	17.5	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°
7332.2	0°	7332.2	7332.2	7332.2	7332.2	7332.2	7332.2	7332.2	7332.2	7332.2
7287.3	2.5°	7387.2	7354.7	7422.1	7414.6	7382.2	7367.2	7349.7	7334.7	7224.8
7292.3	5°	7389.7	7339.7	7422.1	7407.1	7402.1	7377.2	7362.2	7384.7	7284.8
7312.2	7.5°	7389.7	7339.7	7429.6	7434.6	7427.1	7407.1	7404.6	7419.6	7337.2
7347.2	10°	7439.6	7419.6	7494.5	7502.0	7492.0	7487.1	7474.6	7464.6	7377.2
7467.1	12.5°	7544.5	7504.5	7589.4	7611.9	7604.4	7616.9	7586.9	7601.9	7512.0
7589.4	15°	7671.9	7674.4	7739.3	7789.2	7784.2	7824.2	7779.2	7819.2	7754.3
7729.3	17.5°	7866.6	7894.1	7986.5	8061.4	8088.9	8118.9	8088.9	8101.4	8009.0
7574.5	20°	7661.9	7764.3	8208.8	8346.1	8403.6	8431.0	8381.1	8396.1	8303.7
7384.7	22.5°	7477.1	7609.4	8004.0	8433.5	8610.9	8665.8	8648.3	8645.8	8610.9
7010.1	25°	7204.9	7472.1	7649.4	8103.9	8660.8	8760.7	8770.7	8768.2	8715.7
6780.3	27.5°	6870.2	6930.1	7389.7	7666.9	8311.2	8690.8	8675.8	8603.4	8533.4
6303.3	30°	6443.2	6715.4	6922.7	7364.7	7859.2	8476.0	8476.0	8421.1	8348.6
6133.5	32.5°	6225.9	6578.0	6770.3	6930.1	7352.2	8236.3	8336.1	8278.7	8221.3
6001.1	35°	6111.0	6163.5	6613.0	6757.8	7114.9	7774.2	8178.8	8121.4	8078.9
5649.0	37.5°	5858.8	5981.1	6190.9	6578.0	6687.9	7397.1	7969.0	7939.1	7889.1
5192.0	40°	5296.9	5624.0	5946.2	6313.3	6428.2	6912.7	7714.3	7726.8	7659.4
4705.0	42.5°	4964.7	5187.0	5691.5	5938.7	6248.4	6600.5	7467.1	7487.1	7439.6
4457.8	45°	4575.1	4822.4	5177.0	5626.5	6048.6	6170.9	7030.0	7239.8	7199.9
3965.8	47.5°	4218.0	4417.8	4852.3	5306.9	5773.9	5756.4	6528.1	6922.7	6867.7
3588.7	50°	3711.1	4060.7	4265.5	4682.5	5379.3	5426.7	5993.6	6550.5	6505.6
3049.3	52.5°	3129.2	3568.7	3960.8	4342.9	4979.7	5092.1	5496.7	6170.9	6141.0
2330.0	55°	2734.6	3054.3	3496.3	3803.5	4495.2	4794.9	5124.6	5808.8	5793.8
1915.5	57.5°	1945.4	2562.3	2926.9	3356.4	3721.0	4263.0	4507.7	5072.1	4932.3
1061.4	60°	1318.6	1608.3	2052.8	2514.8	2759.6	3301.5	3528.8	3980.8	3943.3
634.3	62.5°	696.8	964.0	1281.1	1513.4	1690.7	2217.6	2312.5	2799.5	2787.0
254.7	65°	307.2	407.1	694.3	814.1	996.4	1241.2	1323.6	1498.4	1456.0
124.9	67.5°	159.8	242.2	392.1	482.0	606.9	699.3	766.7	821.6	856.6
82.4	70°	97.4	177.3	242.2	334.6	417.1	492.0	544.4	619.3	664.3
42.5	72.5°	72.4	112.4	167.3	257.2	302.2	389.6	442.0	497.0	536.9
35.0	75°	40.0	74.9	134.9	202.3	242.2	317.2	364.6	402.1	414.6
20.0	77.5°	25.0	57.4	112.4	157.3	189.8	257.2	244.7	279.7	309.7
15.0	80°	17.5	42.5	87.4	129.9	132.4	164.8	194.8	224.8	244.7
10.0	82.5°	12.5	35.0	64.9	99.9	87.4	127.4	152.3	174.8	127.4
7.5	85°	10.0	25.0	32.5	59.9	49.9	89.9	77.4	74.9	49.9
5.0	87.5°	7.5	12.5	22.5	27.5	20.0	20.0	25.0	30.0	25.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7332.2
7149.9
7199.9
7242.3
7304.7
7432.1
7646.9
7929.1
8238.8
8498.5
8635.8
8478.5
8321.2
8173.8
8019.0
7839.2
7644.4
7434.6
7204.9
6907.7
6513.1
6161.0
5811.3
4917.3
3945.8
2789.5
1438.5
856.6
666.8
544.4
407.1
314.7
247.2
92.4
49.9
25.0
0.0

(END OF REPORT)