

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: P636958

Luminaire Tested: **IFLD-M-SA4D-940-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636958
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-940-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (64) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16661.3 lumens
Efficiency: N/A
Efficacy: 66.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

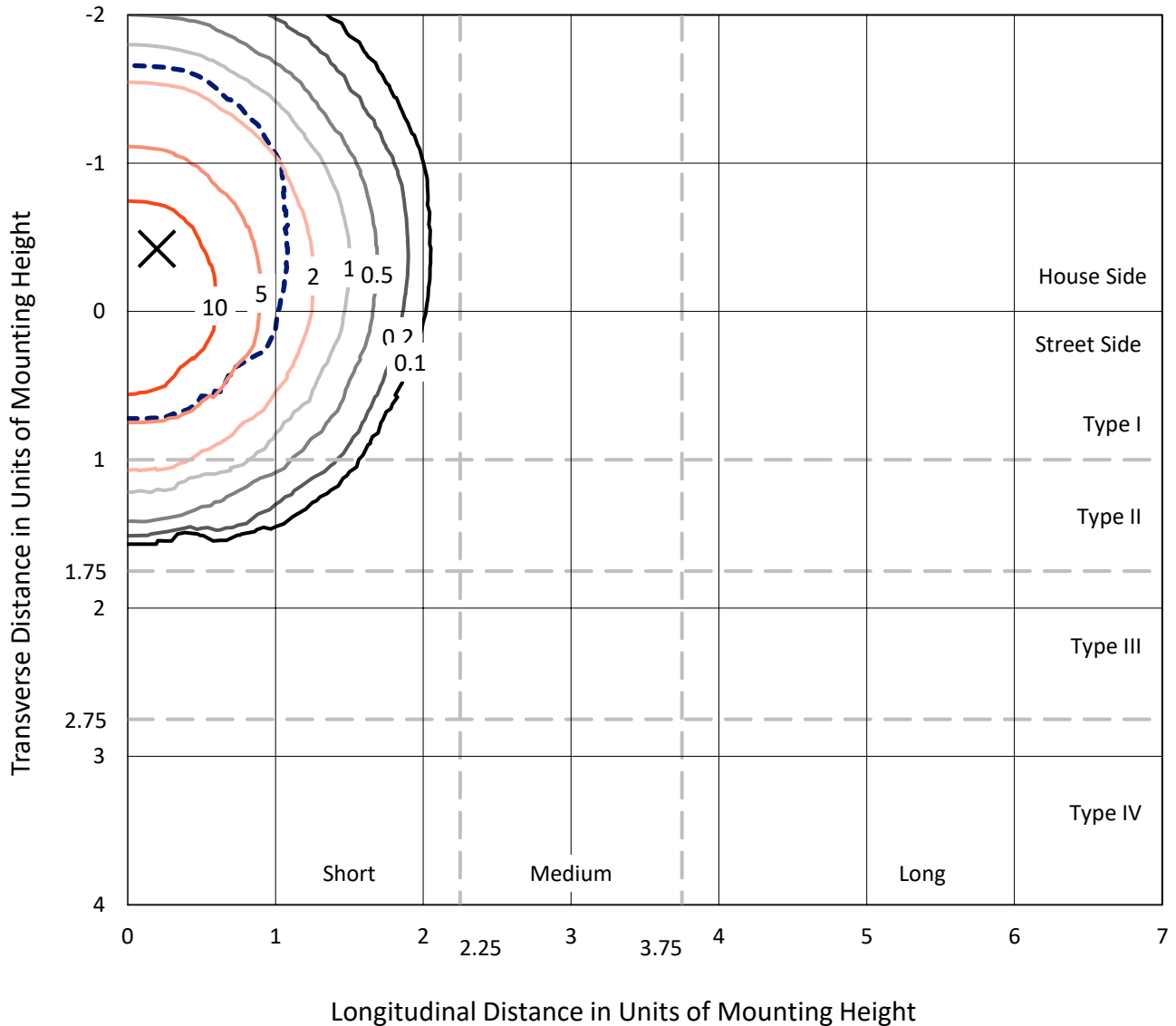
Input Watts (W): 249.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

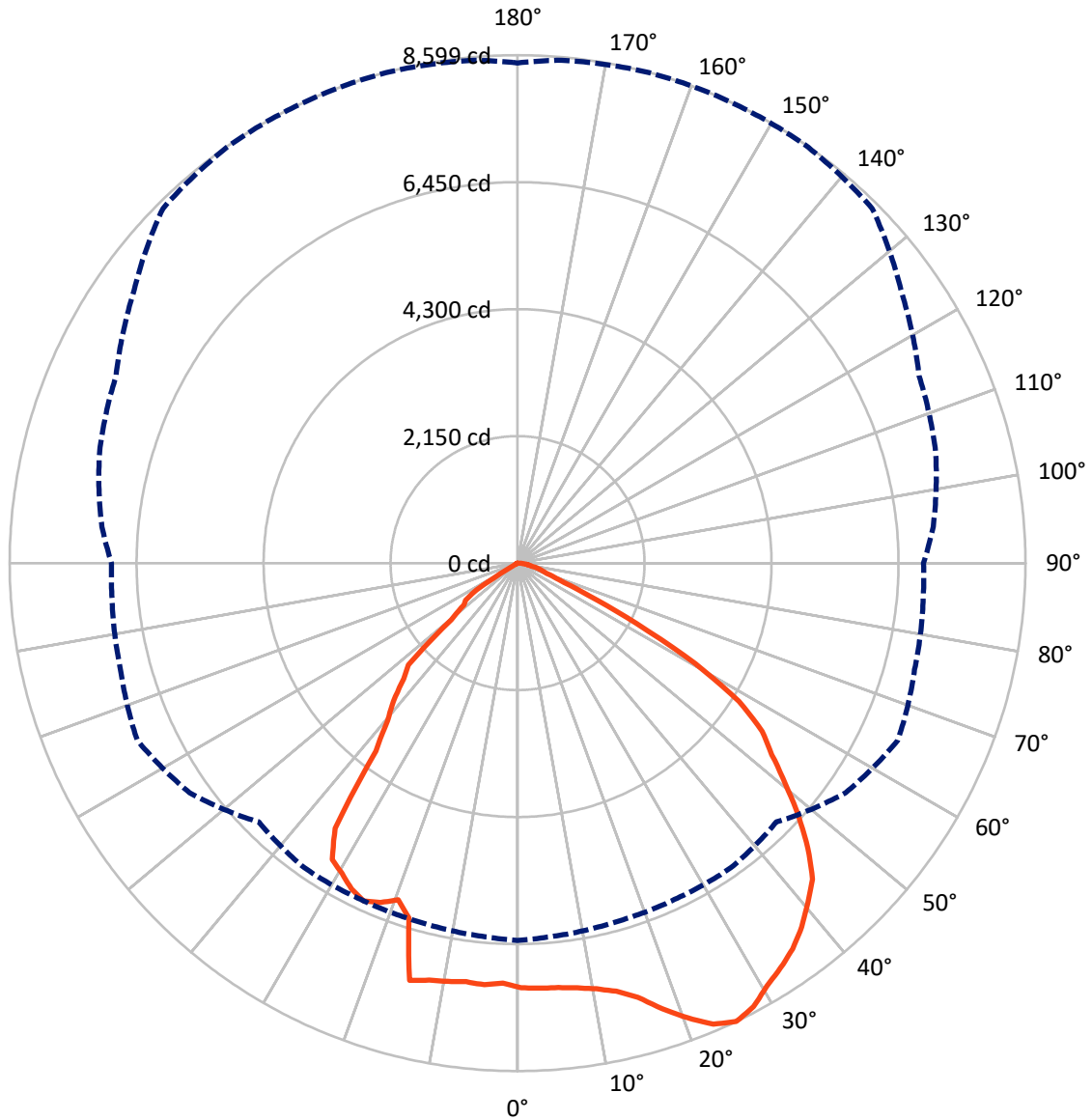
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 18 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	10315.0	0.0	10315.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	6346.2	0.0	6346.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	16661.3	0.0	16661.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	689.7	4.1
10°-20°	2105.9	12.6
20°-30°	3329.4	20.0
30°-40°	3760.8	22.6
40°-50°	3522.1	21.1
50°-60°	2428.2	14.6
60°-70°	652.4	3.9
70°-80°	135.9	0.8
80°-90°	36.8	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°	16661.3	100.0
0°-180°	16661.3	100.0



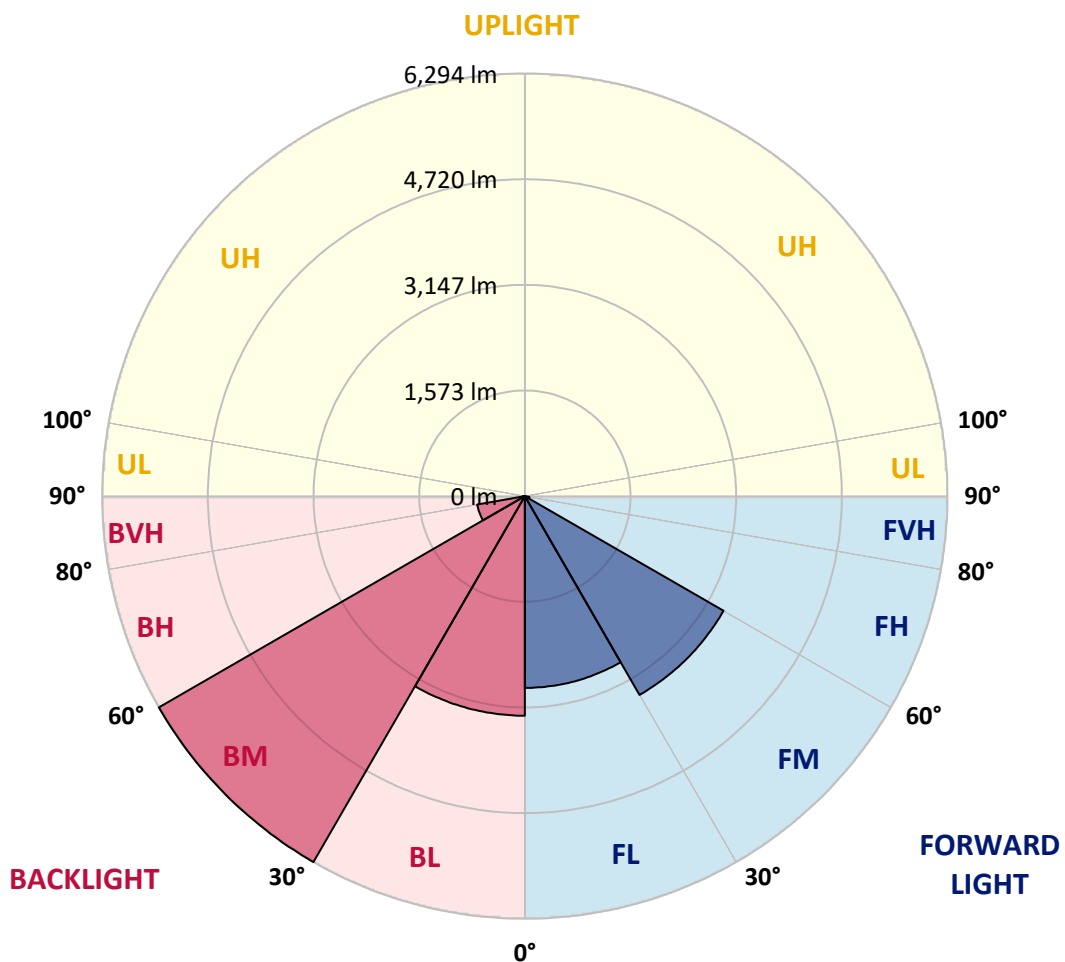
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2855.2	17.1			
FM (30°-60°)	3417.6	20.5			
FH (60°-80°)	68.5	0.4			G0/660
FVH (80°-90°)	4.9	0.0			G0/10
BL (0°-30°)	3269.8	19.6	B4/5000		
BM (30°-60°)	6293.5	37.8	B4/8500		
BH (60°-80°)	719.8	4.3	B2/1000		G2/1000
BVH (80°-90°)	31.8	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°	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0
2.5°	7220.9	7174.4	7130.3	7115.6	7176.8	7242.9	7201.3	7203.7	7189.0	7216.0
5°	7274.7	7211.1	7181.7	7159.7	7169.5	7238.0	7179.2	7201.3	7176.8	7208.6
7.5°	7255.2	7211.1	7181.7	7140.1	7171.9	7252.7	7196.4	7198.8	7186.6	7216.0
10°	7242.9	7211.1	7174.4	7179.2	7216.0	7284.5	7240.5	7265.0	7247.8	7265.0
12.5°	7272.3	7238.0	7218.4	7218.4	7250.3	7328.6	7306.6	7328.6	7321.3	7336.0
15°	6995.6	7027.4	7213.5	7296.8	7360.4	7438.8	7429.0	7451.0	7455.9	7478.0
17.5°	5901.1	5869.3	5854.6	6283.1	7421.7	7664.1	7656.7	7654.3	7629.8	7612.6
20°	6045.6	6033.3	6016.2	6048.0	6175.3	7781.6	7830.6	7529.4	7441.2	7433.9
22.5°	6275.7	6256.1	6192.5	6194.9	6234.1	6765.4	7588.2	7313.9	7284.5	7267.4
25°	6388.4	6349.2	6297.8	6283.1	6295.3	6197.4	6777.7	7103.3	6958.9	6892.8
27.5°	6190.0	6192.5	6150.8	6190.0	6143.5	5702.8	5455.4	6692.0	6687.1	6657.7
30°	6040.7	6033.3	5984.3	6033.3	5712.5	5220.4	5115.1	6241.4	6190.0	6150.8
32.5°	5582.8	5587.7	5729.7	5920.7	5394.2	5004.9	4686.6	5575.4	6062.7	6040.7
35°	3993.6	4003.4	4507.8	5450.5	4911.9	4576.4	4551.9	4818.8	5861.9	5871.7
37.5°	3844.3	3844.3	3832.0	3986.3	4532.3	4402.6	4451.5	4424.6	5369.7	5394.2
40°	3736.5	3714.5	3697.4	3455.0	3151.3	4280.1	4314.4	4192.0	5075.9	5080.8
42.5°	3606.8	3582.3	3587.2	3139.1	2820.8	3976.5	3881.0	3717.0	4586.2	4591.1
45°	3369.3	3410.9	3440.3	2747.3	2722.8	2840.4	3579.8	3477.0	4255.6	4346.2
47.5°	1714.0	1750.7	2686.1	2526.9	2583.3	2524.5	3024.0	3026.5	3540.7	3841.8
50°	1554.9	1545.1	1547.5	1474.0	2384.9	2042.1	2186.6	2774.2	2835.5	3266.4
52.5°	1449.6	1447.1	1297.7	1153.3	1498.5	1797.3	1586.7	2007.8	2108.2	2766.9
55°	1072.5	1150.8	1023.5	1084.7	937.8	1439.8	1432.4	1812.0	1846.2	2218.4
57.5°	9.8	12.2	29.4	825.2	648.9	719.9	989.2	1236.5	1297.7	1728.7
60°	2.4	4.9	12.2	24.5	421.2	443.2	661.1	715.0	805.6	1030.9
62.5°	0.0	0.0	4.9	12.2	22.0	181.2	210.6	230.2	355.0	526.4
65°	0.0	0.0	2.4	7.3	12.2	29.4	51.4	107.7	154.3	191.0
67.5°	0.0	0.0	2.4	4.9	9.8	14.7	29.4	41.6	66.1	112.6
70°	0.0	0.0	2.4	4.9	7.3	12.2	19.6	29.4	39.2	56.3
72.5°	0.0	0.0	2.4	4.9	4.9	14.7	14.7	22.0	29.4	36.7
75°	0.0	0.0	2.4	2.4	4.9	9.8	14.7	17.1	19.6	29.4
77.5°	0.0	0.0	2.4	4.9	7.3	9.8	12.2	19.6	17.1	17.1
80°	0.0	0.0	2.4	7.3	7.3	12.2	14.7	19.6	12.2	12.2
82.5°	0.0	0.0	2.4	9.8	7.3	24.5	24.5	26.9	9.8	9.8
85°	0.0	0.0	7.3	4.9	14.7	24.5	22.0	14.7	12.2	7.3
87.5°	0.0	0.0	2.4	2.4	4.9	7.3	17.1	14.7	4.9	4.9
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°
7189.0	0°	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0	7189.0
7145.0	2.5°	7242.9	7211.1	7277.2	7269.8	7238.0	7223.3	7206.2	7191.5	7083.8
7149.9	5°	7245.4	7196.4	7277.2	7262.5	7257.6	7233.1	7218.4	7240.5	7142.5
7169.5	7.5°	7245.4	7196.4	7284.5	7289.4	7282.1	7262.5	7260.1	7274.7	7193.9
7203.7	10°	7294.3	7274.7	7348.2	7355.5	7345.8	7340.9	7328.6	7318.8	7233.1
7321.3	12.5°	7397.2	7358.0	7441.2	7463.3	7455.9	7468.2	7438.8	7453.5	7365.3
7441.2	15°	7522.1	7524.5	7588.2	7637.1	7632.2	7671.4	7627.3	7666.5	7602.9
7578.4	17.5°	7713.0	7740.0	7830.6	7904.0	7931.0	7960.3	7931.0	7943.2	7852.6
7426.6	20°	7512.3	7612.6	8048.5	8183.2	8239.5	8266.4	8217.4	8232.1	8141.5
7240.5	22.5°	7331.1	7460.8	7847.7	8268.9	8442.7	8496.6	8479.4	8477.0	8442.7
6873.2	25°	7064.2	7326.2	7500.0	7945.7	8491.7	8589.6	8599.4	8597.0	8545.6
6647.9	27.5°	6736.1	6794.8	7245.4	7517.2	8148.9	8521.1	8506.4	8435.4	8366.8
6180.2	30°	6317.3	6584.2	6787.5	7220.9	7705.7	8310.5	8310.5	8256.6	8185.6
6013.7	32.5°	6104.3	6449.6	6638.1	6794.8	7208.6	8075.4	8173.4	8117.1	8060.7
5883.9	35°	5991.7	6043.1	6483.9	6625.9	6976.0	7622.4	8019.1	7962.8	7921.2
5538.7	37.5°	5744.4	5864.4	6070.0	6449.6	6557.3	7252.7	7813.4	7784.1	7735.1
5090.6	40°	5193.4	5514.2	5830.1	6190.0	6302.7	6777.7	7563.7	7575.9	7509.8
4613.1	42.5°	4867.8	5085.7	5580.3	5822.7	6126.4	6471.6	7321.3	7340.9	7294.3
4370.7	45°	4485.8	4728.2	5075.9	5516.7	5930.5	6050.5	6892.8	7098.4	7059.3
3888.4	47.5°	4135.7	4331.5	4757.6	5203.2	5661.1	5644.0	6400.6	6787.5	6733.6
3518.6	50°	3638.6	3981.4	4182.2	4591.1	5274.3	5320.8	5876.6	6422.6	6378.6
2989.7	52.5°	3068.1	3499.0	3883.5	4258.1	4882.5	4992.7	5389.3	6050.5	6021.1
2284.5	55°	2681.2	2994.6	3428.0	3729.2	4407.5	4701.3	5024.5	5695.4	5680.7
1878.1	57.5°	1907.4	2512.2	2869.7	3290.9	3648.4	4179.7	4419.7	4973.1	4836.0
1040.6	60°	1292.9	1576.9	2012.7	2465.7	2705.7	3237.0	3459.9	3903.0	3866.3
621.9	62.5°	683.2	945.2	1256.1	1483.8	1657.7	2174.3	2267.4	2744.9	2732.6
249.8	65°	301.2	399.1	680.7	798.2	977.0	1216.9	1297.7	1469.2	1427.5
122.4	67.5°	156.7	237.5	384.4	472.6	595.0	685.6	751.7	805.6	839.9
80.8	70°	95.5	173.8	237.5	328.1	408.9	482.4	533.8	607.2	651.3
41.6	72.5°	71.0	110.2	164.1	252.2	296.3	382.0	433.4	487.3	526.4
34.3	75°	39.2	73.5	132.2	198.3	237.5	311.0	357.5	394.2	406.5
19.6	77.5°	24.5	56.3	110.2	154.3	186.1	252.2	240.0	274.2	303.6
14.7	80°	17.1	41.6	85.7	127.3	129.8	161.6	191.0	220.4	240.0
9.8	82.5°	12.2	34.3	63.7	97.9	85.7	124.9	149.4	171.4	124.9
7.3	85°	9.8	24.5	31.8	58.8	49.0	88.1	75.9	73.5	49.0
4.9	87.5°	7.3	12.2	22.0	26.9	19.6	19.6	24.5	29.4	24.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7189.0
7010.3
7059.3
7100.9
7162.1
7287.0
7497.6
7774.3
8077.9
8332.5
8467.2
8312.9
8158.7
8014.2
7862.4
7686.1
7495.1
7289.4
7064.2
6772.8
6385.9
6040.7
5697.9
4821.3
3868.8
2735.1
1410.4
839.9
653.8
533.8
399.1
308.5
242.4
90.6
49.0
24.5
0.0

(END OF REPORT)