

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: P638515

Luminaire Tested: **IFLD-S-SA3E-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638515
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3E-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14614 lumens
Efficiency: N/A
Efficacy: 63.0 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

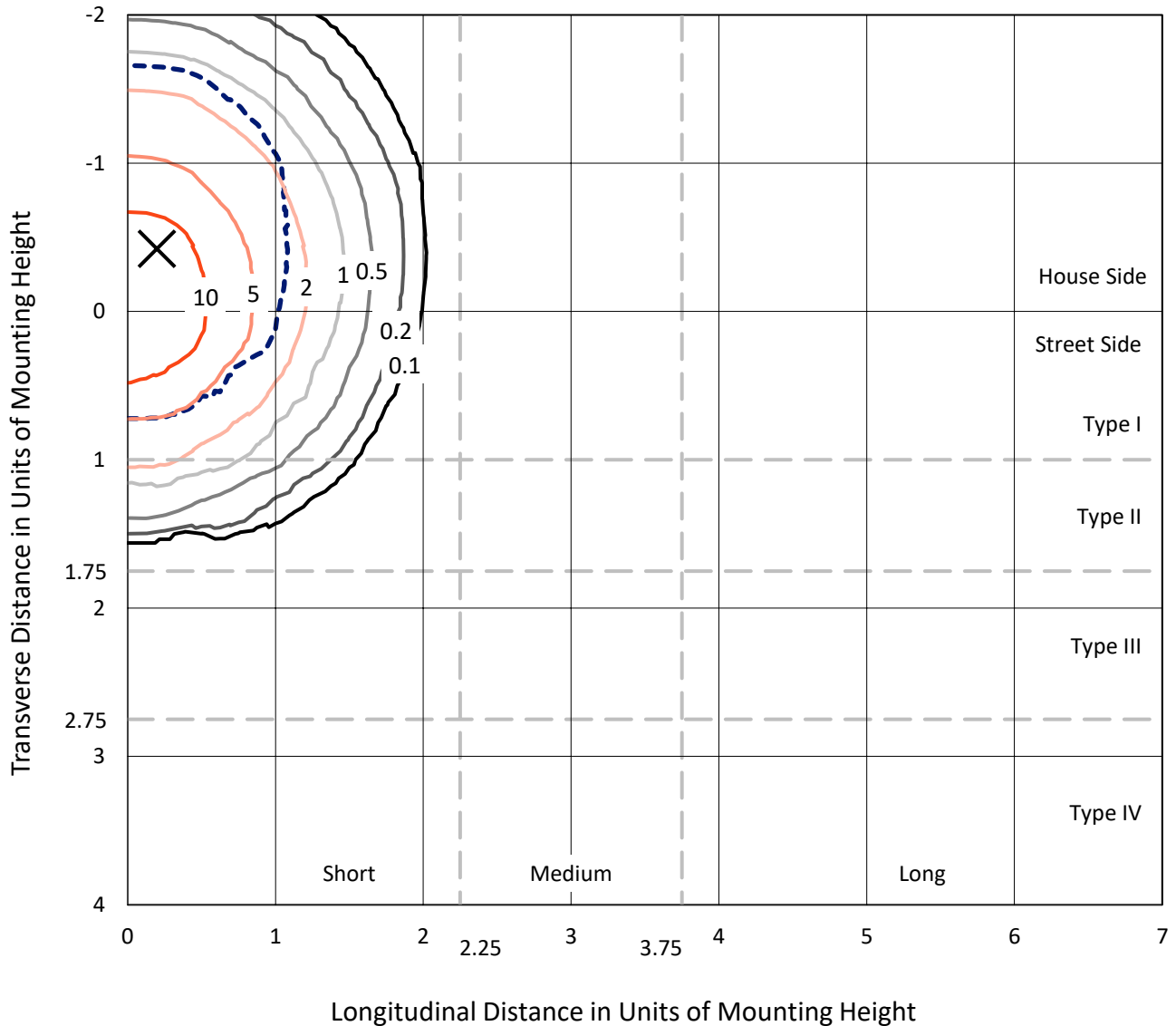
Input Watts (W): 232.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638515
 CATALOG NUMBER: IFLD-S-SA3E-827-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

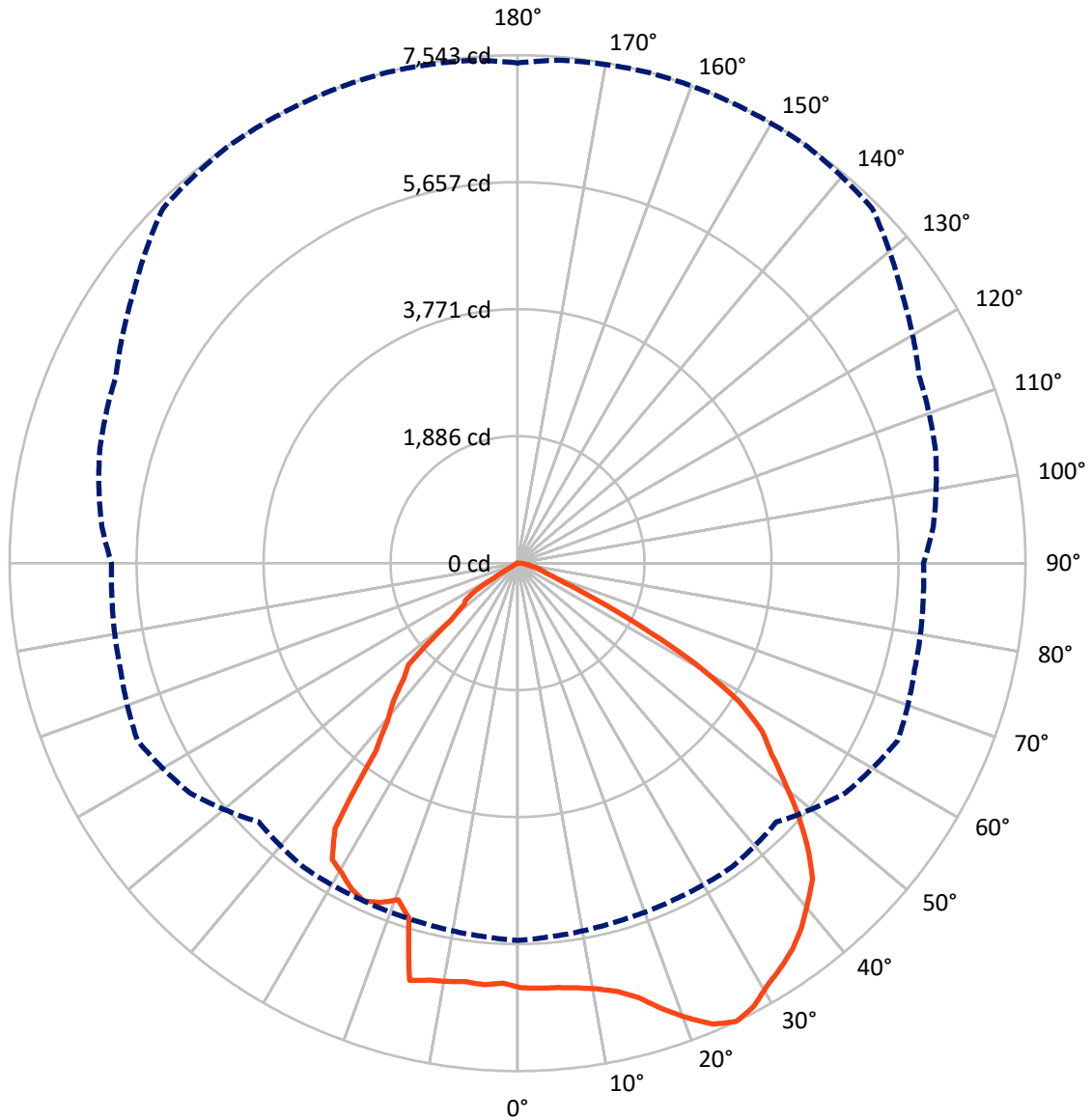
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 15.8 fc
 Type I - Short - N/A

REPORT NUMBER: P638515
CATALOG NUMBER: IFLD-S-SA3E-827-U-LAM-VI

Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

REPORT NUMBER: P638515
 CATALOG NUMBER: IFLD-S-SA3E-827-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9047.6	0.0	9047.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	5566.4	0.0	5566.4
	% Fixture	38.1	0.0	38.1
Total	Lumens	14614.0	0.0	14614.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.9	4.1
10°-20°	1847.2	12.6
20°-30°	2920.3	20.0
30°-40°	3298.7	22.6
40°-50°	3089.3	21.1
50°-60°	2129.9	14.6
60°-70°	572.2	3.9
70°-80°	119.2	0.8
80°-90°	32.3	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°	14614.0	100.0
0°-180°	14614.0	100.0



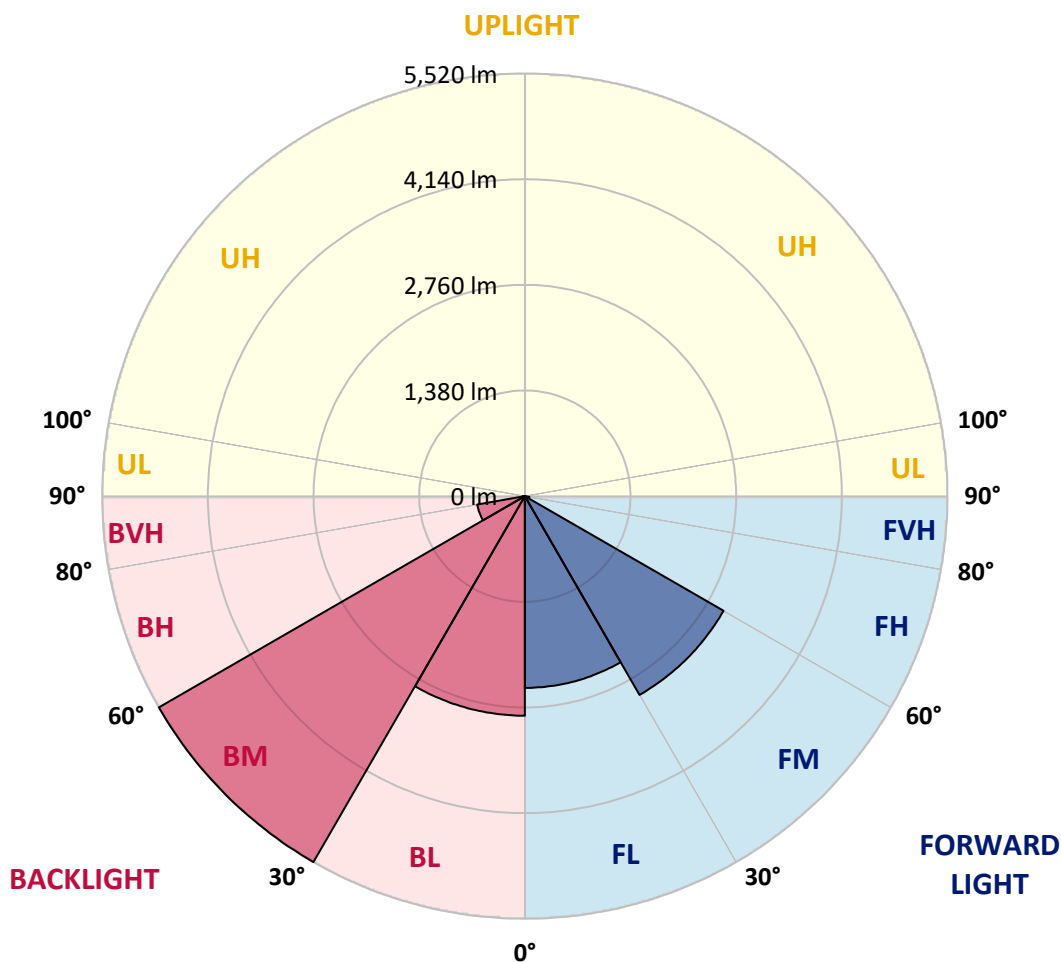
REPORT NUMBER: P638515
 CATALOG NUMBER: IFLD-S-SA3E-827-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2504.4	17.1			
FM (30°-60°)	2997.7	20.5			
FH (60°-80°)	60.1	0.4			G0/660
FVH (80°-90°)	4.3	0.0			G0/10
BL (0°-30°)	2868.0	19.6	B4/5000		
BM (30°-60°)	5520.2	37.8	B4/8500		
BH (60°-80°)	631.4	4.3	B2/1000		G2/1000
BVH (80°-90°)	27.9	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





REPORT NUMBER: P638515
 CATALOG NUMBER: IFLD-S-SA3E-827-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	6305.7	6305.7	6305.7	6305.7	6305.7	6305.7	6305.7	6305.7	6305.7	6305.7
2.5°	6333.6	6292.8	6254.2	6241.3	6295.0	6352.9	6316.4	6318.6	6305.7	6329.3
5°	6380.9	6325.0	6299.3	6279.9	6288.5	6348.7	6297.1	6316.4	6295.0	6322.9
7.5°	6363.7	6325.0	6299.3	6262.7	6290.7	6361.5	6312.1	6314.3	6303.6	6329.3
10°	6352.9	6325.0	6292.8	6297.1	6329.3	6389.5	6350.8	6372.3	6357.2	6372.3
12.5°	6378.7	6348.7	6331.5	6331.5	6359.4	6428.1	6408.8	6428.1	6421.7	6434.6
15°	6136.0	6163.9	6327.2	6400.2	6456.0	6524.8	6516.2	6535.5	6539.8	6559.1
17.5°	5176.0	5148.1	5135.2	5511.0	6509.7	6722.4	6715.9	6713.8	6692.3	6677.3
20°	5302.7	5292.0	5276.9	5304.9	5416.5	6825.4	6868.4	6604.2	6526.9	6520.5
22.5°	5504.6	5487.4	5431.6	5433.7	5468.1	5934.1	6655.8	6415.2	6389.5	6374.4
25°	5603.4	5569.0	5523.9	5511.0	5521.8	5435.9	5944.9	6230.5	6103.8	6045.8
27.5°	5429.4	5431.6	5395.1	5429.4	5388.6	5002.0	4785.1	5869.7	5865.4	5839.6
30°	5298.4	5292.0	5249.0	5292.0	5010.6	4578.9	4486.6	5474.5	5429.4	5395.1
32.5°	4896.8	4901.1	5025.7	5193.2	4731.4	4389.9	4110.7	4890.4	5317.7	5298.4
35°	3502.9	3511.5	3953.9	4780.8	4308.3	4014.1	3992.6	4226.7	5141.6	5150.2
37.5°	3371.9	3371.9	3361.2	3496.5	3975.4	3861.6	3904.6	3880.9	4709.9	4731.4
40°	3277.4	3258.1	3243.1	3030.4	2764.1	3754.2	3784.3	3676.9	4452.2	4456.5
42.5°	3163.6	3142.1	3146.4	2753.4	2474.2	3487.9	3404.1	3260.2	4022.7	4027.0
45°	2955.3	2991.8	3017.5	2409.7	2388.3	2491.4	3140.0	3049.8	3732.7	3812.2
47.5°	1503.4	1535.6	2356.0	2216.4	2265.8	2214.3	2652.4	2654.6	3105.6	3369.8
50°	1363.8	1355.2	1357.4	1292.9	2091.9	1791.2	1917.9	2433.4	2487.1	2865.1
52.5°	1271.4	1269.3	1138.3	1011.6	1314.4	1576.4	1391.7	1761.1	1849.2	2426.9
55°	940.7	1009.4	897.7	951.4	822.6	1262.9	1256.4	1589.3	1619.4	1945.8
57.5°	8.6	10.7	25.8	723.8	569.1	631.4	867.7	1084.6	1138.3	1516.3
60°	2.1	4.3	10.7	21.5	369.4	388.7	579.9	627.1	706.6	904.2
62.5°	0.0	0.0	4.3	10.7	19.3	158.9	184.7	201.9	311.4	461.8
65°	0.0	0.0	2.1	6.4	10.7	25.8	45.1	94.5	135.3	167.5
67.5°	0.0	0.0	2.1	4.3	8.6	12.9	25.8	36.5	58.0	98.8
70°	0.0	0.0	2.1	4.3	6.4	10.7	17.2	25.8	34.4	49.4
72.5°	0.0	0.0	2.1	4.3	4.3	12.9	12.9	19.3	25.8	32.2
75°	0.0	0.0	2.1	2.1	4.3	8.6	12.9	15.0	17.2	25.8
77.5°	0.0	0.0	2.1	4.3	6.4	8.6	10.7	17.2	15.0	15.0
80°	0.0	0.0	2.1	6.4	6.4	10.7	12.9	17.2	10.7	10.7
82.5°	0.0	0.0	2.1	8.6	6.4	21.5	21.5	23.6	8.6	8.6
85°	0.0	0.0	6.4	4.3	12.9	21.5	19.3	12.9	10.7	6.4
87.5°	0.0	0.0	2.1	2.1	4.3	6.4	15.0	12.9	4.3	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638515
 CATALOG NUMBER: IFLD-S-SA3E-827-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
6305.7	0°	6305.7	6305.7	6305.7	6305.7	6305.7	6305.7	6305.7	6305.7	6305.7
6267.0	2.5°	6352.9	6325.0	6383.0	6376.6	6348.7	6335.8	6320.7	6307.8	6213.3
6271.3	5°	6355.1	6312.1	6383.0	6370.1	6365.8	6344.4	6331.5	6350.8	6264.9
6288.5	7.5°	6355.1	6312.1	6389.5	6393.8	6387.3	6370.1	6368.0	6380.9	6310.0
6318.6	10°	6398.1	6380.9	6445.3	6451.7	6443.2	6438.9	6428.1	6419.5	6344.4
6421.7	12.5°	6488.3	6453.9	6526.9	6546.2	6539.8	6550.5	6524.8	6537.7	6460.3
6526.9	15°	6597.8	6599.9	6655.8	6698.7	6694.4	6728.8	6690.1	6724.5	6668.7
6647.2	17.5°	6765.3	6788.9	6868.4	6932.8	6956.5	6982.2	6956.5	6967.2	6887.7
6514.0	20°	6589.2	6677.3	7059.5	7177.7	7227.1	7250.7	7207.7	7220.6	7141.2
6350.8	22.5°	6430.3	6544.1	6883.4	7252.8	7405.3	7452.6	7437.5	7435.4	7405.3
6028.6	25°	6196.2	6426.0	6578.5	6969.3	7448.3	7534.2	7542.8	7540.6	7495.5
5831.1	27.5°	5908.4	5959.9	6355.1	6593.5	7147.6	7474.1	7461.2	7398.9	7338.8
5420.8	30°	5541.1	5775.2	5953.5	6333.6	6758.9	7289.4	7289.4	7242.1	7179.8
5274.8	32.5°	5354.3	5657.1	5822.5	5959.9	6322.9	7083.2	7169.1	7119.7	7070.3
5161.0	35°	5255.5	5300.6	5687.2	5811.7	6118.8	6685.8	7033.8	6984.4	6947.9
4858.1	37.5°	5038.5	5143.8	5324.2	5657.1	5751.6	6361.5	6853.4	6827.6	6784.6
4465.1	40°	4555.3	4836.7	5113.7	5429.4	5528.2	5944.9	6634.3	6645.0	6587.0
4046.3	42.5°	4269.7	4460.8	4894.6	5107.3	5373.6	5676.4	6421.7	6438.9	6398.1
3833.7	45°	3934.6	4147.2	4452.2	4838.8	5201.8	5307.0	6045.8	6226.2	6191.9
3410.6	47.5°	3627.5	3799.3	4173.0	4563.9	4965.5	4950.5	5614.1	5953.5	5906.2
3086.3	50°	3191.5	3492.2	3668.3	4027.0	4626.2	4667.0	5154.5	5633.5	5594.8
2622.4	52.5°	2691.1	3069.1	3406.3	3734.9	4282.5	4379.2	4727.1	5307.0	5281.2
2003.8	55°	2351.8	2626.7	3006.8	3271.0	3865.9	4123.6	4407.1	4995.6	4982.7
1647.3	57.5°	1673.1	2203.6	2517.1	2886.5	3200.1	3666.2	3876.6	4362.0	4241.7
912.8	60°	1134.0	1383.1	1765.4	2162.8	2373.2	2839.3	3034.7	3423.5	3391.2
545.5	62.5°	599.2	829.0	1101.8	1301.5	1454.0	1907.2	1988.8	2407.6	2396.9
219.1	65°	264.2	350.1	597.1	700.2	856.9	1067.4	1138.3	1288.6	1252.1
107.4	67.5°	137.5	208.3	337.2	414.5	521.9	601.4	659.3	706.6	736.7
70.9	70°	83.8	152.5	208.3	287.8	358.7	423.1	468.2	532.6	571.3
36.5	72.5°	62.3	96.6	143.9	221.2	259.9	335.0	380.1	427.4	461.8
30.1	75°	34.4	64.4	116.0	174.0	208.3	272.8	313.6	345.8	356.5
17.2	77.5°	21.5	49.4	96.6	135.3	163.2	221.2	210.5	240.5	266.3
12.9	80°	15.0	36.5	75.2	111.7	113.8	141.7	167.5	193.3	210.5
8.6	82.5°	10.7	30.1	55.8	85.9	75.2	109.5	131.0	150.3	109.5
6.4	85°	8.6	21.5	27.9	51.5	43.0	77.3	66.6	64.4	43.0
4.3	87.5°	6.4	10.7	19.3	23.6	17.2	17.2	21.5	25.8	21.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6305.7
6148.9
6191.9
6228.4
6282.1
6391.6
6576.3
6819.0
7085.3
7308.7
7426.8
7291.5
7156.2
7029.5
6896.3
6741.7
6574.2
6393.8
6196.2
5940.6
5601.2
5298.4
4997.7
4228.9
3393.4
2399.0
1237.1
736.7
573.4
468.2
350.1
270.6
212.6
79.5
43.0
21.5
0.0

(END OF REPORT)