

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: P638513

Luminaire Tested: **IFLD-S-SA3C-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638513
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-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: 11476.3 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

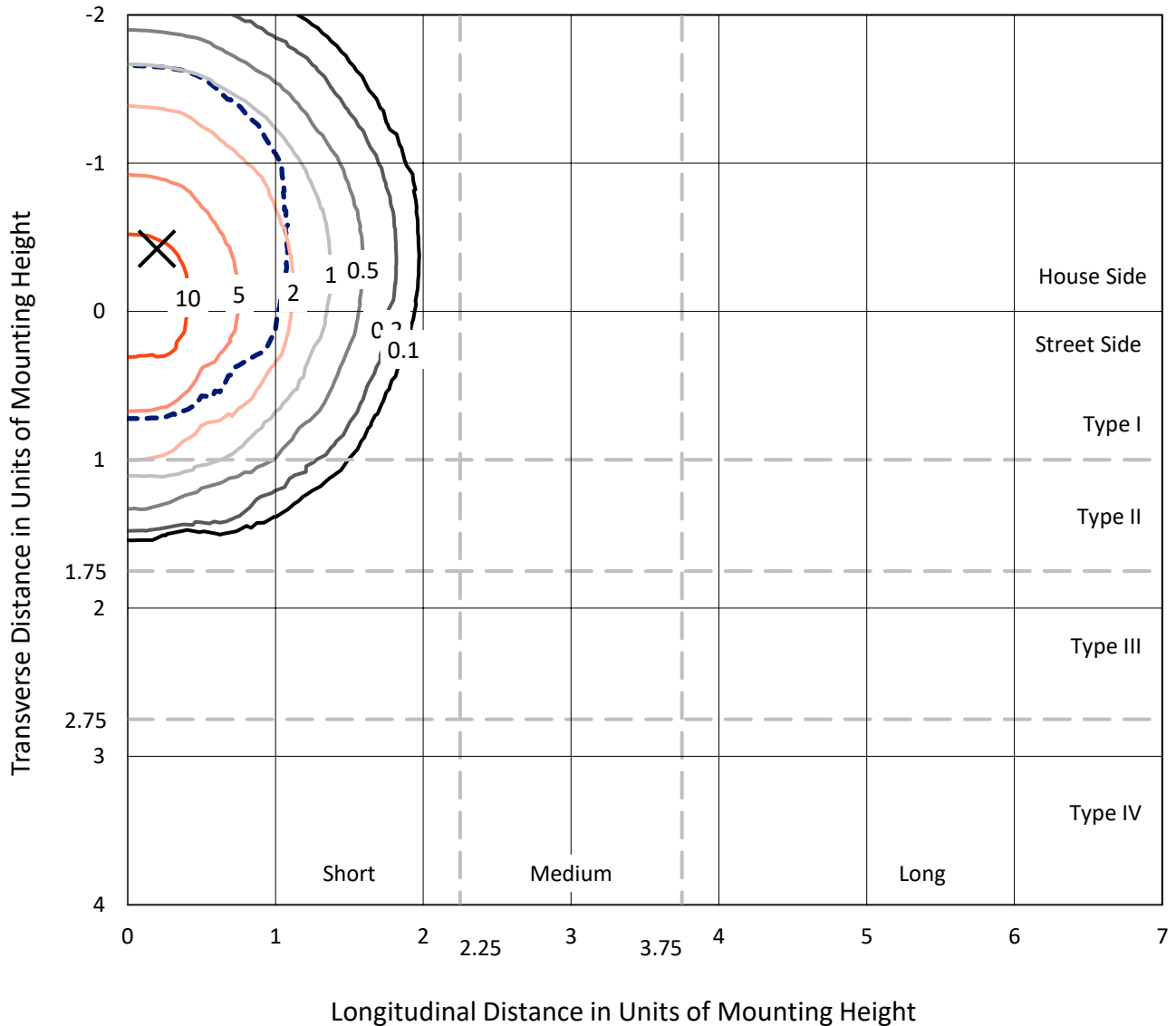
Input Watts (W): 160.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638513
 CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

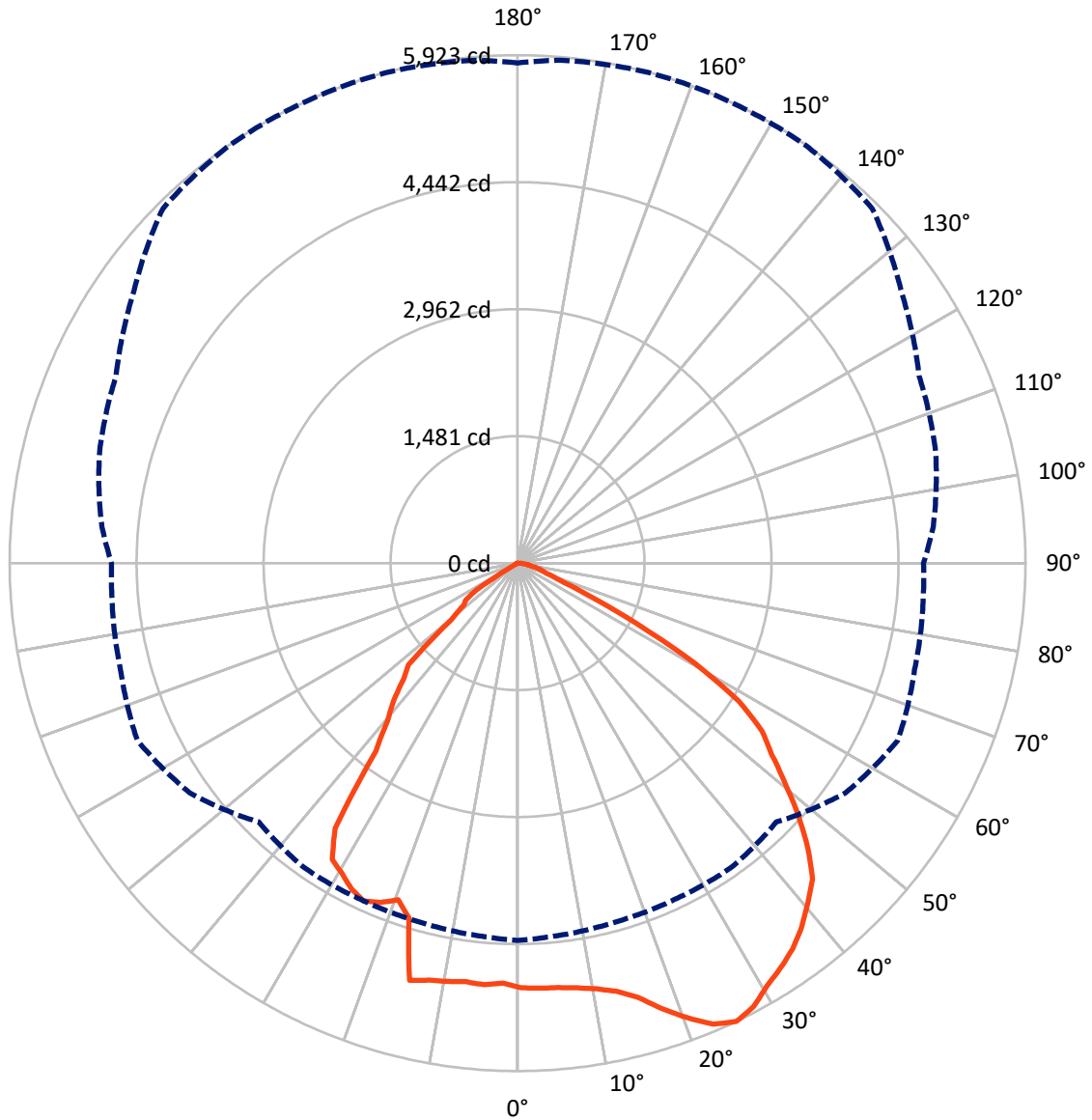
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 12.4 fc
 Type I - Short - N/A

REPORT NUMBER: P638513
CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638513
 CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7105.0	0.0	7105.0
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	4371.3	0.0	4371.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	11476.3	0.0	11476.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.1	4.1
10°-20°	1450.6	12.6
20°-30°	2293.3	20.0
30°-40°	2590.5	22.6
40°-50°	2426.0	21.1
50°-60°	1672.6	14.6
60°-70°	449.4	3.9
70°-80°	93.6	0.8
80°-90°	25.3	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°	11476.3	100.0
0°-180°	11476.3	100.0



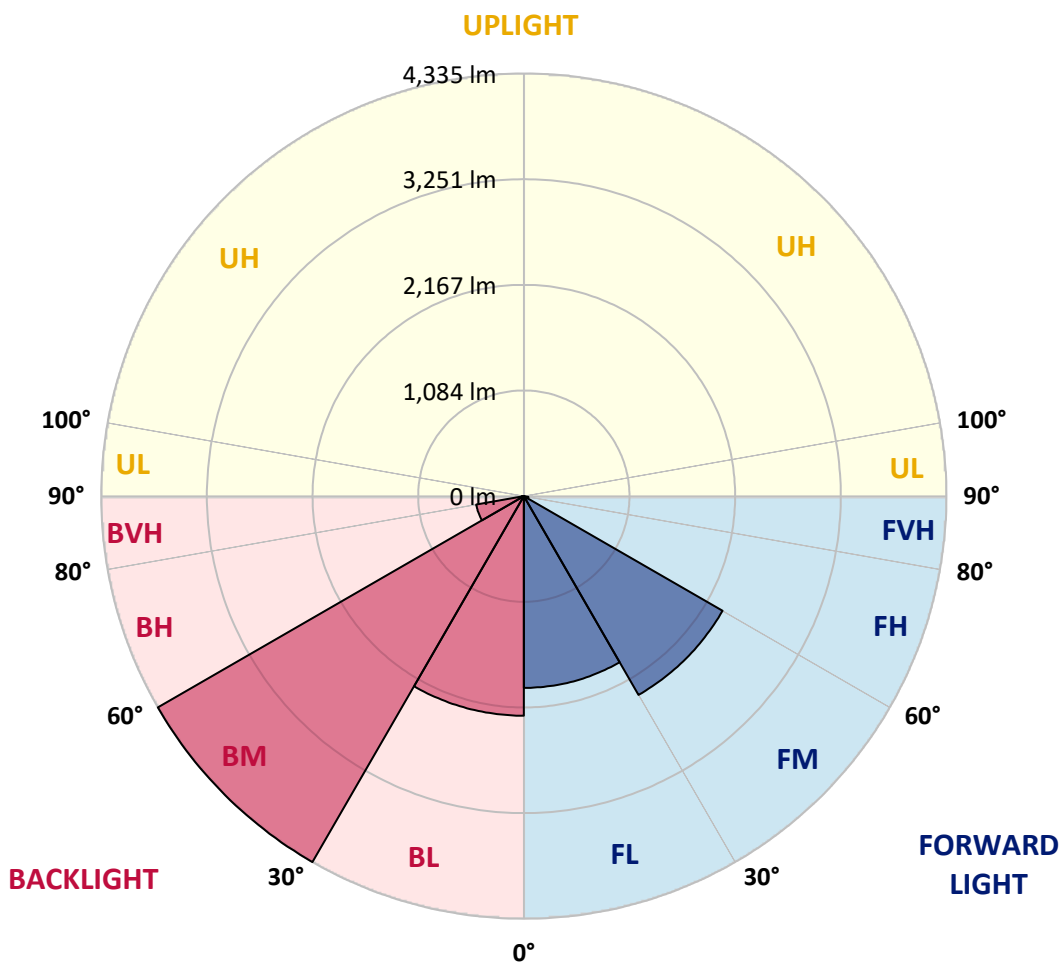
REPORT NUMBER: P638513
 CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1966.7	17.1			
FM (30°-60°)	2354.1	20.5			
FH (60°-80°)	47.2	0.4			G0/660
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	2252.2	19.6	B3/2500		
BM (30°-60°)	4335.0	37.8	B3/5000		
BH (60°-80°)	495.8	4.3	B1/500		G1/500
BVH (80°-90°)	21.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





REPORT NUMBER: P638513
 CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8
2.5°	4973.7	4941.7	4911.3	4901.2	4943.4	4988.9	4960.3	4961.9	4951.8	4970.4
5°	5010.9	4967.0	4946.8	4931.6	4938.3	4985.6	4945.1	4960.3	4943.4	4965.3
7.5°	4997.4	4967.0	4946.8	4918.1	4940.0	4995.7	4956.9	4958.6	4950.1	4970.4
10°	4988.9	4967.0	4941.7	4945.1	4970.4	5017.6	4987.2	5004.1	4992.3	5004.1
12.5°	5009.2	4985.6	4972.1	4972.1	4994.0	5048.0	5032.8	5048.0	5042.9	5053.0
15°	4818.6	4840.5	4968.7	5026.0	5069.9	5123.9	5117.1	5132.3	5135.7	5150.8
17.5°	4064.7	4042.7	4032.6	4327.8	5112.0	5279.0	5274.0	5272.3	5255.4	5243.6
20°	4164.2	4155.8	4143.9	4165.9	4253.6	5360.0	5393.7	5186.3	5125.5	5120.5
22.5°	4322.7	4309.2	4265.4	4267.1	4294.1	4660.0	5226.7	5037.8	5017.6	5005.8
25°	4400.3	4373.3	4337.9	4327.8	4336.2	4268.8	4668.5	4892.8	4793.3	4747.7
27.5°	4263.7	4265.4	4236.7	4263.7	4231.6	3928.1	3757.7	4609.4	4606.1	4585.8
30°	4160.8	4155.8	4122.0	4155.8	3934.8	3595.8	3523.3	4299.1	4263.7	4236.7
32.5°	3845.4	3848.8	3946.6	4078.2	3715.6	3447.4	3228.1	3840.4	4176.0	4160.8
35°	2750.8	2757.6	3105.0	3754.3	3383.3	3152.2	3135.4	3319.2	4037.7	4044.4
37.5°	2647.9	2647.9	2639.5	2745.8	3121.9	3032.5	3066.2	3047.7	3698.7	3715.6
40°	2573.7	2558.6	2546.7	2379.8	2170.6	2948.2	2971.8	2887.4	3496.3	3499.7
42.5°	2484.3	2467.5	2470.9	2162.2	1942.9	2739.0	2673.2	2560.2	3159.0	3162.4
45°	2320.7	2349.4	2369.7	1892.4	1875.5	1956.4	2465.8	2395.0	2931.3	2993.7
47.5°	1180.6	1205.9	1850.2	1740.6	1779.3	1738.9	2082.9	2084.6	2438.8	2646.3
50°	1071.0	1064.2	1065.9	1015.3	1642.7	1406.6	1506.1	1910.9	1953.1	2249.9
52.5°	998.5	996.8	893.9	794.4	1032.2	1238.0	1092.9	1383.0	1452.2	1905.8
55°	738.7	792.7	705.0	747.2	646.0	991.7	986.7	1248.1	1271.7	1528.0
57.5°	6.7	8.4	20.2	568.4	446.9	495.9	681.4	851.7	893.9	1190.7
60°	1.7	3.4	8.4	16.9	290.1	305.3	455.4	492.5	554.9	710.1
62.5°	0.0	0.0	3.4	8.4	15.2	124.8	145.0	158.5	244.6	362.6
65°	0.0	0.0	1.7	5.1	8.4	20.2	35.4	74.2	106.3	131.6
67.5°	0.0	0.0	1.7	3.4	6.7	10.1	20.2	28.7	45.5	77.6
70°	0.0	0.0	1.7	3.4	5.1	8.4	13.5	20.2	27.0	38.8
72.5°	0.0	0.0	1.7	3.4	3.4	10.1	10.1	15.2	20.2	25.3
75°	0.0	0.0	1.7	1.7	3.4	6.7	10.1	11.8	13.5	20.2
77.5°	0.0	0.0	1.7	3.4	5.1	6.7	8.4	13.5	11.8	11.8
80°	0.0	0.0	1.7	5.1	5.1	8.4	10.1	13.5	8.4	8.4
82.5°	0.0	0.0	1.7	6.7	5.1	16.9	16.9	18.6	6.7	6.7
85°	0.0	0.0	5.1	3.4	10.1	16.9	15.2	10.1	8.4	5.1
87.5°	0.0	0.0	1.7	1.7	3.4	5.1	11.8	10.1	3.4	3.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638513

CATALOG NUMBER: IFLD-S-SA3C-827-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
4951.8	0°	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8	4951.8
4921.5	2.5°	4988.9	4967.0	5012.5	5007.5	4985.6	4975.4	4963.6	4953.5	4879.3
4924.8	5°	4990.6	4956.9	5012.5	5002.4	4999.0	4982.2	4972.1	4987.2	4919.8
4938.3	7.5°	4990.6	4956.9	5017.6	5021.0	5015.9	5002.4	5000.7	5010.9	4955.2
4961.9	10°	5024.3	5010.9	5061.4	5066.5	5059.8	5056.4	5048.0	5041.2	4982.2
5042.9	12.5°	5095.2	5068.2	5125.5	5140.7	5135.7	5144.1	5123.9	5134.0	5073.3
5125.5	15°	5181.2	5182.9	5226.7	5260.5	5257.1	5284.1	5253.7	5280.7	5236.9
5220.0	17.5°	5312.7	5331.3	5393.7	5444.3	5462.9	5483.1	5462.9	5471.3	5408.9
5115.4	20°	5174.4	5243.6	5543.8	5636.6	5675.4	5693.9	5660.2	5670.3	5607.9
4987.2	22.5°	5049.6	5139.0	5405.5	5695.6	5815.4	5852.5	5840.7	5839.0	5815.4
4734.3	25°	4865.8	5046.3	5166.0	5473.0	5849.1	5916.5	5923.3	5921.6	5886.2
4579.1	27.5°	4639.8	4680.3	4990.6	5177.8	5613.0	5869.3	5859.2	5810.3	5763.1
4256.9	30°	4351.4	4535.2	4675.2	4973.7	5307.7	5724.3	5724.3	5687.2	5638.3
4142.3	32.5°	4204.7	4442.5	4572.3	4680.3	4965.3	5562.4	5629.8	5591.0	5552.2
4052.9	35°	4127.1	4162.5	4466.1	4563.9	4805.1	5250.3	5523.6	5484.8	5456.1
3815.1	37.5°	3956.7	4039.4	4181.0	4442.5	4516.7	4995.7	5381.9	5361.7	5327.9
3506.4	40°	3577.3	3798.2	4015.8	4263.7	4341.3	4668.5	5209.9	5218.3	5172.8
3177.5	42.5°	3352.9	3503.0	3843.7	4010.7	4219.8	4457.7	5042.9	5056.4	5024.3
3010.6	45°	3089.8	3256.8	3496.3	3799.9	4084.9	4167.6	4747.7	4889.4	4862.4
2678.3	47.5°	2848.6	2983.6	3277.0	3584.0	3899.4	3887.6	4408.7	4675.2	4638.1
2423.6	50°	2506.3	2742.4	2880.7	3162.4	3632.9	3665.0	4047.8	4423.9	4393.6
2059.3	52.5°	2113.3	2410.1	2674.9	2933.0	3363.1	3439.0	3712.2	4167.6	4147.3
1573.6	55°	1846.8	2062.7	2361.2	2568.7	3035.9	3238.2	3460.9	3923.0	3912.9
1293.6	57.5°	1313.9	1730.4	1976.7	2266.8	2513.0	2879.0	3044.3	3425.5	3331.0
716.8	60°	890.5	1086.2	1386.4	1698.4	1863.7	2229.7	2383.1	2688.4	2663.1
428.4	62.5°	470.6	651.0	865.2	1022.1	1141.8	1497.7	1561.8	1890.7	1882.2
172.0	65°	207.5	274.9	468.9	549.8	672.9	838.2	893.9	1012.0	983.3
84.3	67.5°	107.9	163.6	264.8	325.5	409.8	472.2	517.8	554.9	578.5
55.7	70°	65.8	119.7	163.6	226.0	281.7	332.3	367.7	418.3	448.6
28.7	72.5°	48.9	75.9	113.0	173.7	204.1	263.1	298.5	335.6	362.6
23.6	75°	27.0	50.6	91.1	136.6	163.6	214.2	246.2	271.5	280.0
13.5	77.5°	16.9	38.8	75.9	106.3	128.2	173.7	165.3	188.9	209.1
10.1	80°	11.8	28.7	59.0	87.7	89.4	111.3	131.6	151.8	165.3
6.7	82.5°	8.4	23.6	43.9	67.5	59.0	86.0	102.9	118.1	86.0
5.1	85°	6.7	16.9	21.9	40.5	33.7	60.7	52.3	50.6	33.7
3.4	87.5°	5.1	8.4	15.2	18.6	13.5	13.5	16.9	20.2	16.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4951.8
4828.7
4862.4
4891.1
4933.3
5019.3
5164.3
5354.9
5564.1
5739.5
5832.2
5726.0
5619.7
5520.2
5415.6
5294.2
5162.6
5021.0
4865.8
4665.1
4398.6
4160.8
3924.7
3320.9
2664.8
1883.9
971.5
578.5
450.3
367.7
274.9
212.5
167.0
62.4
33.7
16.9
0.0

(END OF REPORT)