

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: P638532

Luminaire Tested: **IFLD-L-SA8B-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638532
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8B-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22050.4 lumens
Efficiency: N/A
Efficacy: 68.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

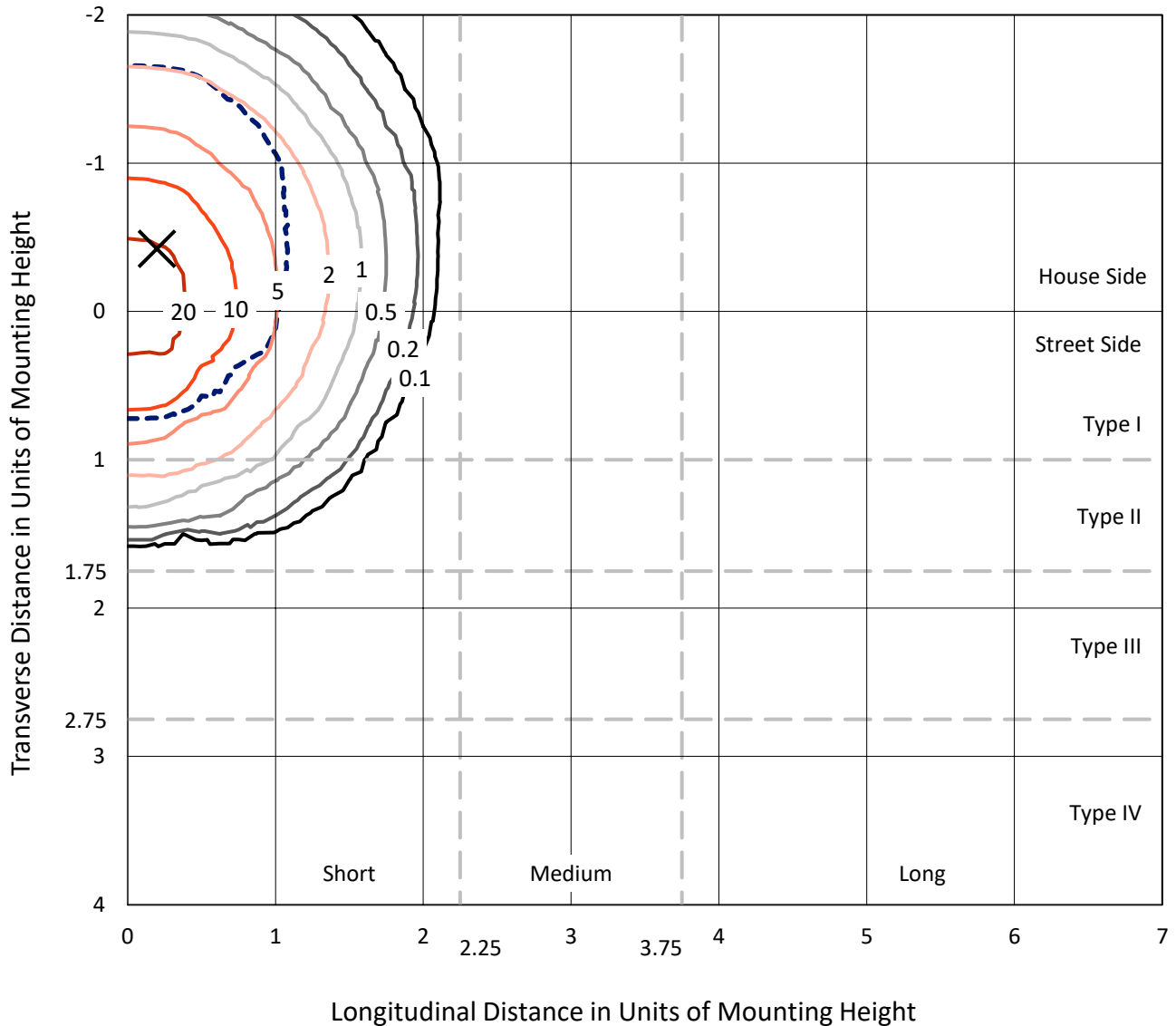
Input Watts (W): 320
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638532
 CATALOG NUMBER: IFLD-L-SA8B-827-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

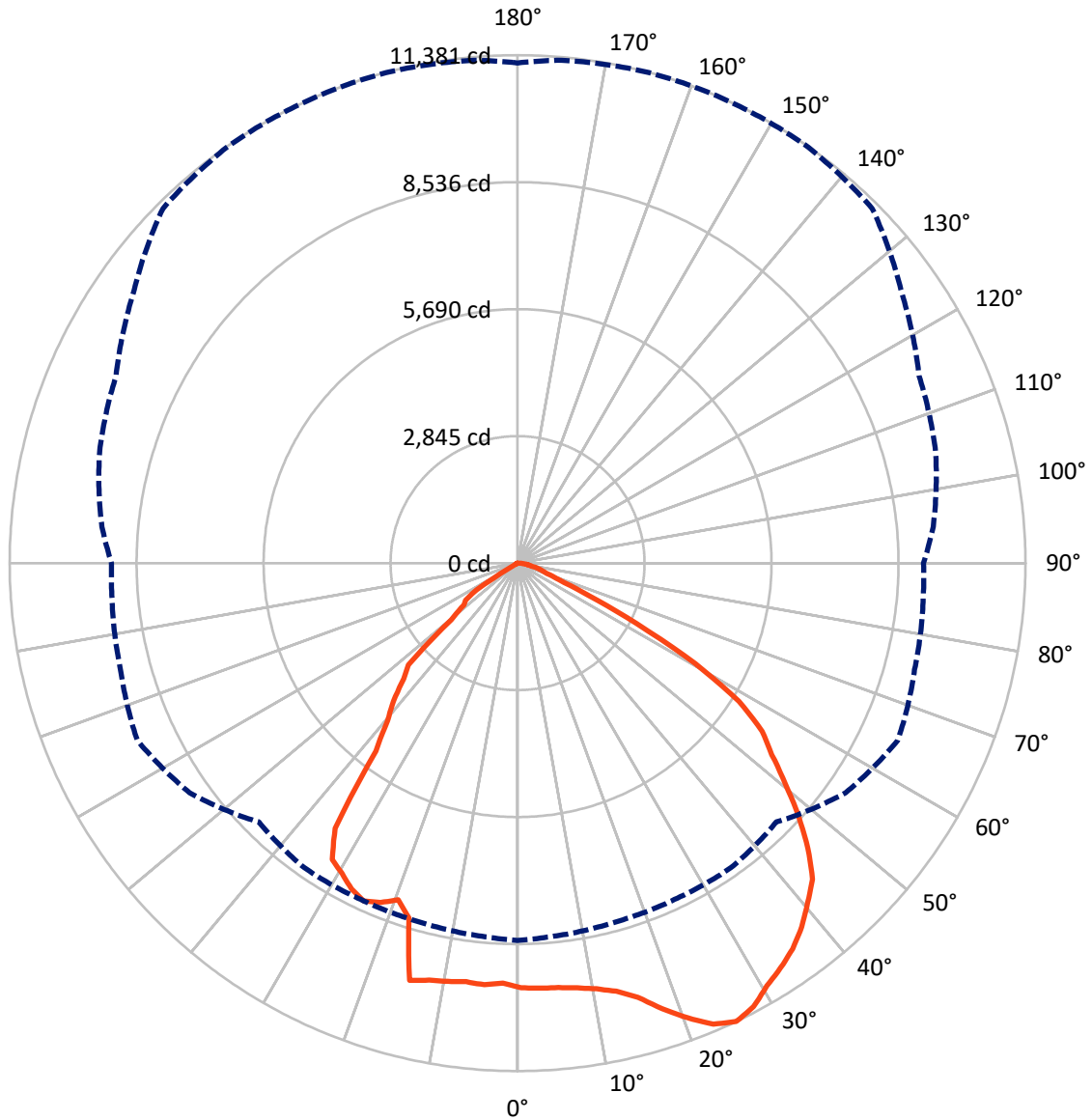
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 23.8 fc
 Type I - Short - N/A

REPORT NUMBER: P638532
CATALOG NUMBER: IFLD-L-SA8B-827-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638532
 CATALOG NUMBER: IFLD-L-SA8B-827-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13651.4	0.0	13651.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	8398.9	0.0	8398.9
	% Fixture	38.1	0.0	38.1
Total	Lumens	22050.4	0.0	22050.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	912.8	4.1
10°-20°	2787.1	12.6
20°-30°	4406.3	20.0
30°-40°	4977.3	22.6
40°-50°	4661.3	21.1
50°-60°	3213.6	14.6
60°-70°	863.4	3.9
70°-80°	179.9	0.8
80°-90°	48.7	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°	22050.4	100.0
0°-180°	22050.4	100.0



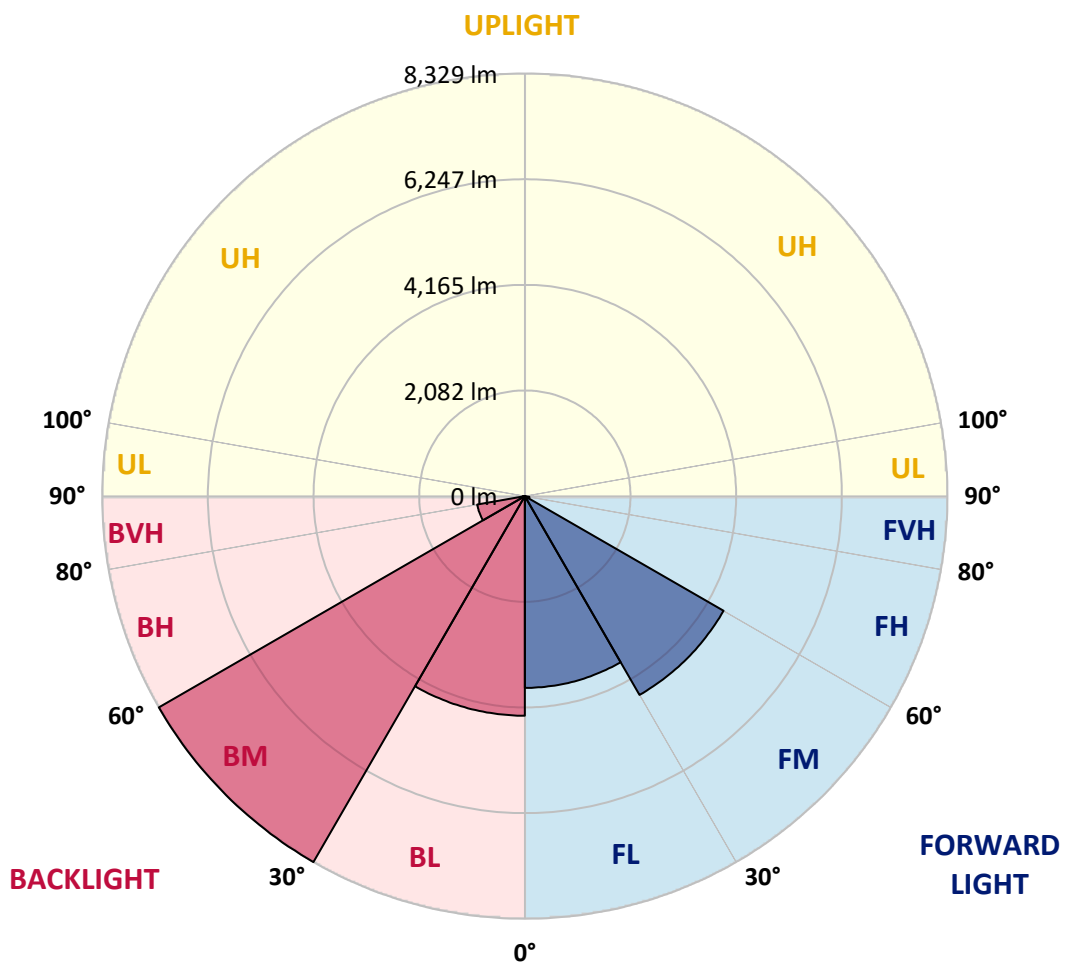
REPORT NUMBER: P638532
 CATALOG NUMBER: IFLD-L-SA8B-827-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3778.7	17.1			
FM (30°-60°)	4523.0	20.5			
FH (60°-80°)	90.6	0.4			G0/660
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	4327.4	19.6	B4/5000		
BM (30°-60°)	8329.2	37.8	B4/8500		
BH (60°-80°)	952.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	42.1	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: P638532
 CATALOG NUMBER: IFLD-L-SA8B-827-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	9514.3	9514.3	9514.3	9514.3	9514.3	9514.3	9514.3	9514.3	9514.3	9514.3
2.5°	9556.5	9494.9	9436.6	9417.1	9498.1	9585.6	9530.5	9533.8	9514.3	9550.0
5°	9627.8	9543.5	9504.6	9475.5	9488.4	9579.2	9501.4	9530.5	9498.1	9540.3
7.5°	9601.8	9543.5	9504.6	9449.5	9491.7	9598.6	9524.1	9527.3	9511.1	9550.0
10°	9585.6	9543.5	9494.9	9501.4	9550.0	9640.7	9582.4	9614.8	9592.1	9614.8
12.5°	9624.5	9579.2	9553.2	9553.2	9595.4	9699.1	9669.9	9699.1	9689.3	9708.8
15°	9258.3	9300.5	9546.7	9656.9	9741.2	9844.9	9831.9	9861.1	9867.6	9896.7
17.5°	7809.8	7767.7	7748.2	8315.3	9822.2	10143.0	10133.3	10130.1	10097.6	10075.0
20°	8001.0	7984.8	7962.1	8004.2	8172.7	10298.6	10363.4	9964.8	9848.1	9838.4
22.5°	8305.6	8279.7	8195.4	8198.7	8250.5	8953.7	10042.6	9679.6	9640.7	9618.0
25°	8454.7	8402.8	8334.8	8315.3	8331.5	8201.9	8969.9	9400.9	9209.7	9122.2
27.5°	8192.2	8195.4	8140.3	8192.2	8130.6	7547.3	7220.0	8856.5	8850.0	8811.1
30°	7994.5	7984.8	7920.0	7984.8	7560.3	6908.9	6769.6	8260.2	8192.2	8140.3
32.5°	7388.5	7395.0	7583.0	7835.7	7139.0	6623.7	6202.5	7378.8	8023.7	7994.5
35°	5285.4	5298.3	5965.9	7213.5	6500.6	6056.6	6024.2	6377.5	7757.9	7770.9
37.5°	5087.7	5087.7	5071.5	5275.7	5998.3	5826.6	5891.4	5855.7	7106.6	7139.0
40°	4945.1	4916.0	4893.3	4572.5	4170.6	5664.5	5709.9	5547.9	6717.7	6724.2
42.5°	4773.4	4741.0	4747.4	4154.4	3733.1	5262.7	5136.3	4919.2	6069.6	6076.1
45°	4459.0	4514.1	4553.0	3635.9	3603.5	3759.1	4737.7	4601.6	5632.1	5752.0
47.5°	2268.4	2317.0	3554.9	3344.3	3418.8	3341.0	4002.1	4005.4	4685.9	5084.5
50°	2057.8	2044.8	2048.0	1950.8	3156.3	2702.6	2893.8	3671.6	3752.6	4322.9
52.5°	1918.4	1915.2	1717.5	1526.3	1983.2	2378.6	2099.9	2657.3	2790.1	3661.9
55°	1419.4	1523.1	1354.6	1435.6	1241.1	1905.5	1895.7	2398.0	2443.4	2936.0
57.5°	13.0	16.2	38.9	1092.1	858.8	952.7	1309.2	1636.5	1717.5	2287.8
60°	3.2	6.5	16.2	32.4	557.4	586.5	875.0	946.2	1066.2	1364.3
62.5°	0.0	0.0	6.5	16.2	29.2	239.8	278.7	304.6	469.9	696.7
65°	0.0	0.0	3.2	9.7	16.2	38.9	68.1	142.6	204.2	252.8
67.5°	0.0	0.0	3.2	6.5	13.0	19.4	38.9	55.1	87.5	149.1
70°	0.0	0.0	3.2	6.5	9.7	16.2	25.9	38.9	51.8	74.5
72.5°	0.0	0.0	3.2	6.5	6.5	19.4	19.4	29.2	38.9	48.6
75°	0.0	0.0	3.2	3.2	6.5	13.0	19.4	22.7	25.9	38.9
77.5°	0.0	0.0	3.2	6.5	9.7	13.0	16.2	25.9	22.7	22.7
80°	0.0	0.0	3.2	9.7	9.7	16.2	19.4	25.9	16.2	16.2
82.5°	0.0	0.0	3.2	13.0	9.7	32.4	32.4	35.6	13.0	13.0
85°	0.0	0.0	9.7	6.5	19.4	32.4	29.2	19.4	16.2	9.7
87.5°	0.0	0.0	3.2	3.2	6.5	9.7	22.7	19.4	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638532

CATALOG NUMBER: IFLD-L-SA8B-827-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
9514.3	0°	9514.3	9514.3	9514.3	9514.3	9514.3	9514.3	9514.3	9514.3	9514.3
9456.0	2.5°	9585.6	9543.5	9631.0	9621.3	9579.2	9559.7	9537.0	9517.6	9375.0
9462.5	5°	9588.9	9524.1	9631.0	9611.6	9605.1	9572.7	9553.2	9582.4	9452.8
9488.4	7.5°	9588.9	9524.1	9640.7	9647.2	9637.5	9611.6	9608.3	9627.8	9520.8
9533.8	10°	9653.7	9627.8	9725.0	9734.7	9721.7	9715.3	9699.1	9686.1	9572.7
9689.3	12.5°	9789.8	9737.9	9848.1	9877.3	9867.6	9883.8	9844.9	9864.3	9747.7
9848.1	15°	9955.1	9958.3	10042.6	10107.4	10100.9	10152.7	10094.4	10146.3	10062.0
10029.6	17.5°	10207.8	10243.5	10363.4	10460.6	10496.2	10535.1	10496.2	10512.4	10392.5
9828.7	20°	9942.1	10075.0	10651.8	10830.0	10904.5	10940.2	10875.4	10894.8	10774.9
9582.4	22.5°	9702.3	9874.0	10386.1	10943.4	11173.5	11244.8	11222.1	11218.9	11173.5
9096.3	25°	9349.1	9695.8	9925.9	10515.7	11238.3	11368.0	11380.9	11377.7	11309.6
8798.2	27.5°	8914.8	8992.6	9588.9	9948.6	10784.6	11277.2	11257.8	11163.8	11073.1
8179.2	30°	8360.7	8713.9	8982.9	9556.5	10198.1	10998.5	10998.5	10927.2	10833.3
7958.9	32.5°	8078.8	8535.7	8785.2	8992.6	9540.3	10687.4	10817.1	10742.5	10668.0
7787.1	35°	7929.7	7997.7	8581.1	8769.0	9232.4	10087.9	10612.9	10538.4	10483.3
7330.2	37.5°	7602.4	7761.2	8033.4	8535.7	8678.3	9598.6	10340.7	10301.8	10237.0
6737.2	40°	6873.3	7297.8	7715.8	8192.2	8341.3	8969.9	10010.1	10026.4	9938.9
6105.3	42.5°	6442.3	6730.7	7385.3	7706.1	8107.9	8564.9	9689.3	9715.3	9653.7
5784.4	45°	5936.7	6257.6	6717.7	7301.0	7848.7	8007.5	9122.2	9394.4	9342.6
5146.0	47.5°	5473.3	5732.6	6296.4	6886.2	7492.2	7469.5	8470.9	8982.9	8911.6
4656.7	50°	4815.5	5269.2	5534.9	6076.1	6980.2	7041.8	7777.4	8500.0	8441.7
3956.7	52.5°	4060.4	4630.8	5139.6	5635.4	6461.7	6607.5	7132.5	8007.5	7968.6
3023.5	55°	3548.4	3963.2	4536.8	4935.4	5833.0	6221.9	6649.7	7537.6	7518.1
2485.5	57.5°	2524.4	3324.8	3798.0	4355.3	4828.5	5531.7	5849.2	6581.6	6400.1
1377.2	60°	1711.0	2086.9	2663.8	3263.3	3580.8	4284.0	4578.9	5165.5	5116.9
823.1	62.5°	904.1	1250.9	1662.4	1963.8	2193.9	2877.6	3000.8	3632.7	3616.5
330.5	65°	398.6	528.2	900.9	1056.4	1293.0	1610.6	1717.5	1944.3	1889.3
162.0	67.5°	207.4	314.3	508.8	625.4	787.5	907.4	994.9	1066.2	1111.5
106.9	70°	126.4	230.1	314.3	434.2	541.2	638.4	706.4	803.7	862.0
55.1	72.5°	94.0	145.8	217.1	333.8	392.1	505.5	573.6	644.9	696.7
45.4	75°	51.8	97.2	175.0	262.5	314.3	411.6	473.1	521.7	537.9
25.9	77.5°	32.4	74.5	145.8	204.2	246.3	333.8	317.6	362.9	401.8
19.4	80°	22.7	55.1	113.4	168.5	171.8	213.9	252.8	291.7	317.6
13.0	82.5°	16.2	45.4	84.3	129.6	113.4	165.3	197.7	226.8	165.3
9.7	85°	13.0	32.4	42.1	77.8	64.8	116.7	100.5	97.2	64.8
6.5	87.5°	9.7	16.2	29.2	35.6	25.9	25.9	32.4	38.9	32.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
9514.3
9277.8
9342.6
9397.7
9478.7
9644.0
9922.7
10288.8
10690.7
11027.7
11205.9
11001.8
10797.6
10606.4
10405.5
10172.2
9919.4
9647.2
9349.1
8963.4
8451.4
7994.5
7540.8
6380.7
5120.1
3619.7
1866.6
1111.5
865.2
706.4
528.2
408.3
320.8
119.9
64.8
32.4
0.0

(END OF REPORT)