

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: P638556

Luminaire Tested: **IFLD-L-SA7B-830-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638556
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-830-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20856.2 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

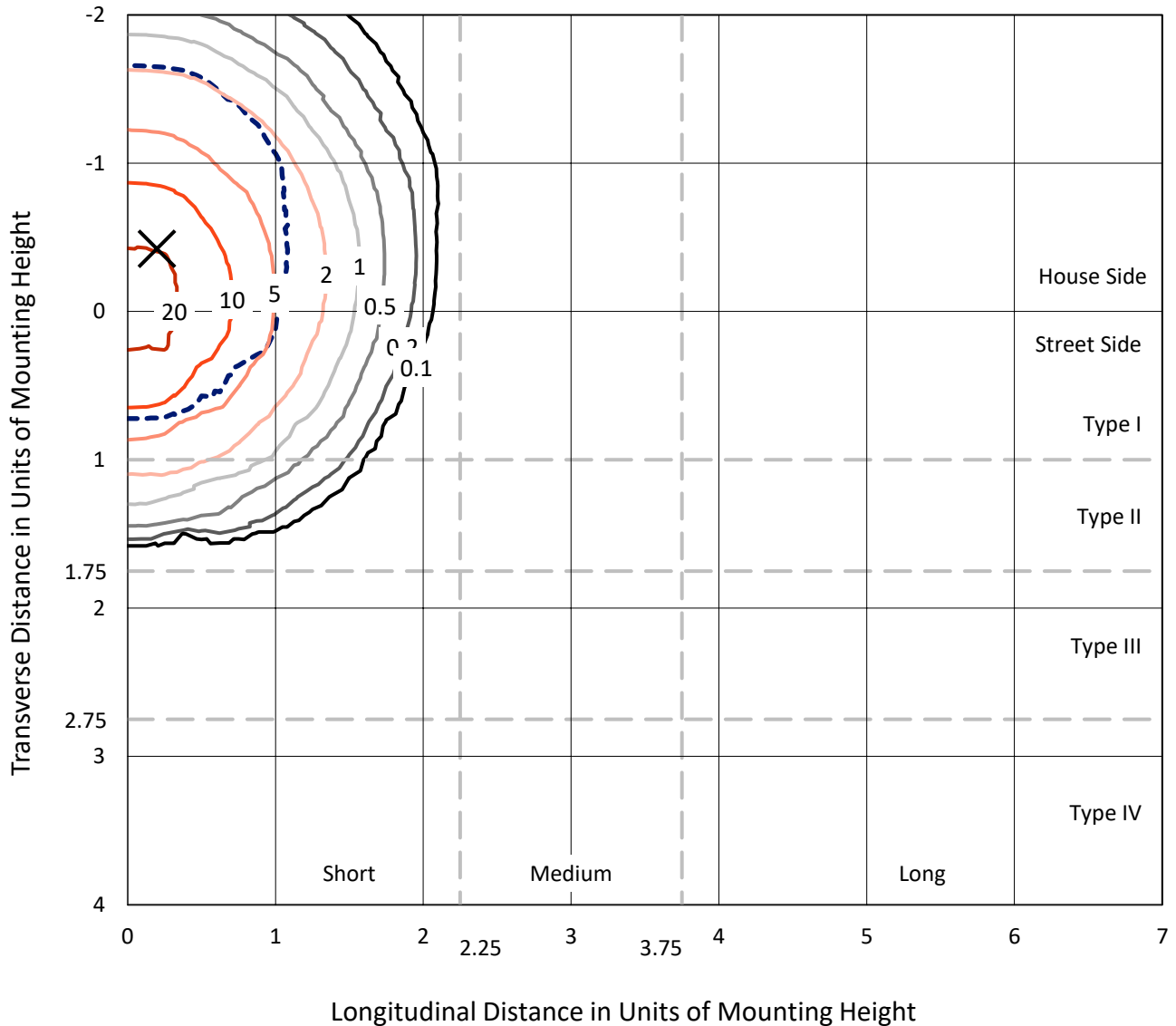
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P638556
 CATALOG NUMBER: IFLD-L-SA7B-830-U-LAM-VI

Iso-Footcandle Lines of Horizontal Illumination

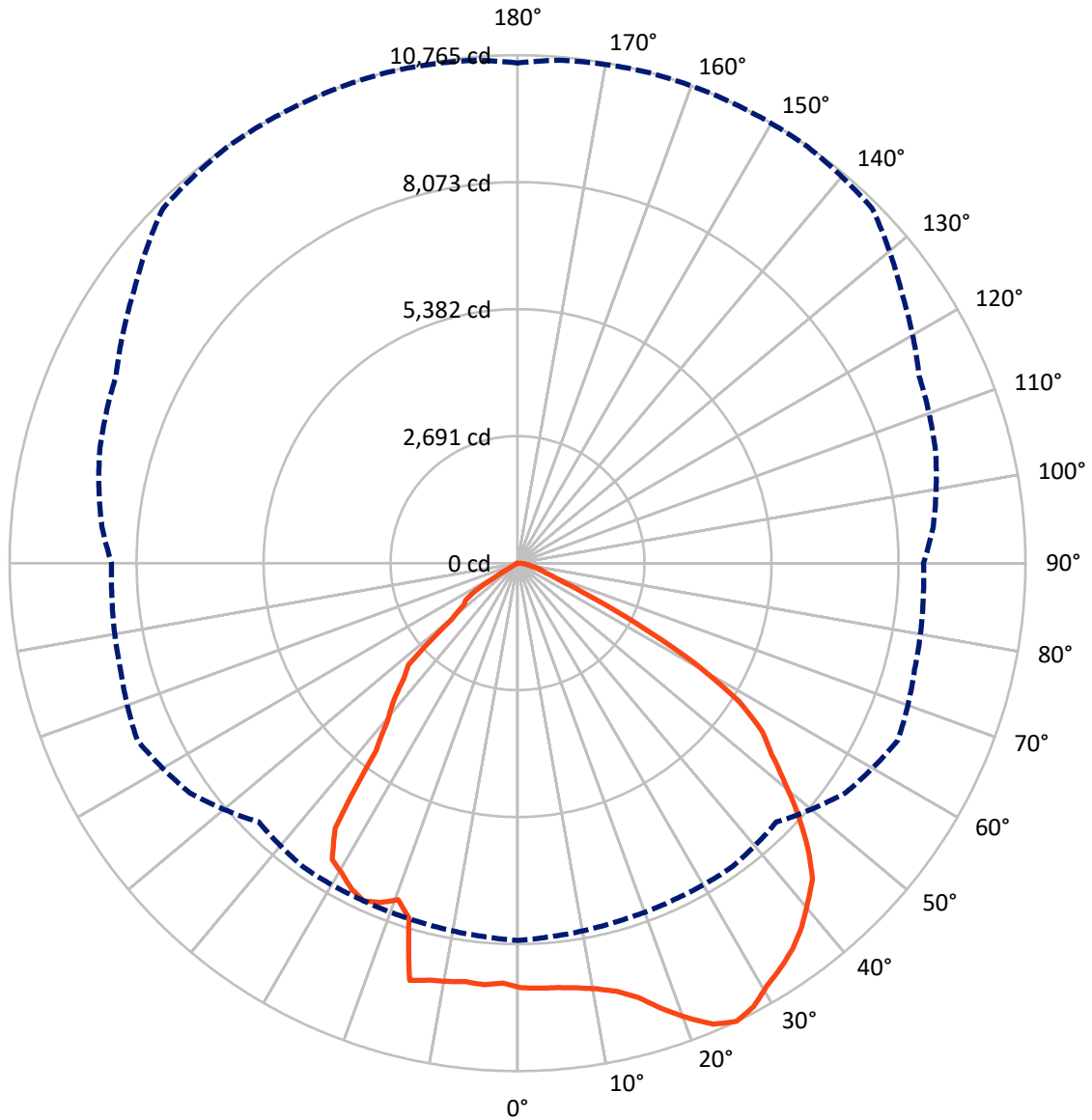
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 22.5 fc
 Type I - Short - N/A

REPORT NUMBER: P638556
CATALOG NUMBER: IFLD-L-SA7B-830-U-LAM-VI

Luminous Intensity Polar Plot



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

REPORT NUMBER: P638556
 CATALOG NUMBER: IFLD-L-SA7B-830-U-LAM-VI

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12912.1	0.0	12912.1
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7944.1	0.0	7944.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	20856.2	0.0	20856.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	863.3	4.1
10°-20°	2636.2	12.6
20°-30°	4167.6	20.0
30°-40°	4707.7	22.6
40°-50°	4408.9	21.1
50°-60°	3039.6	14.6
60°-70°	816.6	3.9
70°-80°	170.2	0.8
80°-90°	46.0	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°	20856.2	100.0
0°-180°	20856.2	100.0



REPORT NUMBER: P638556

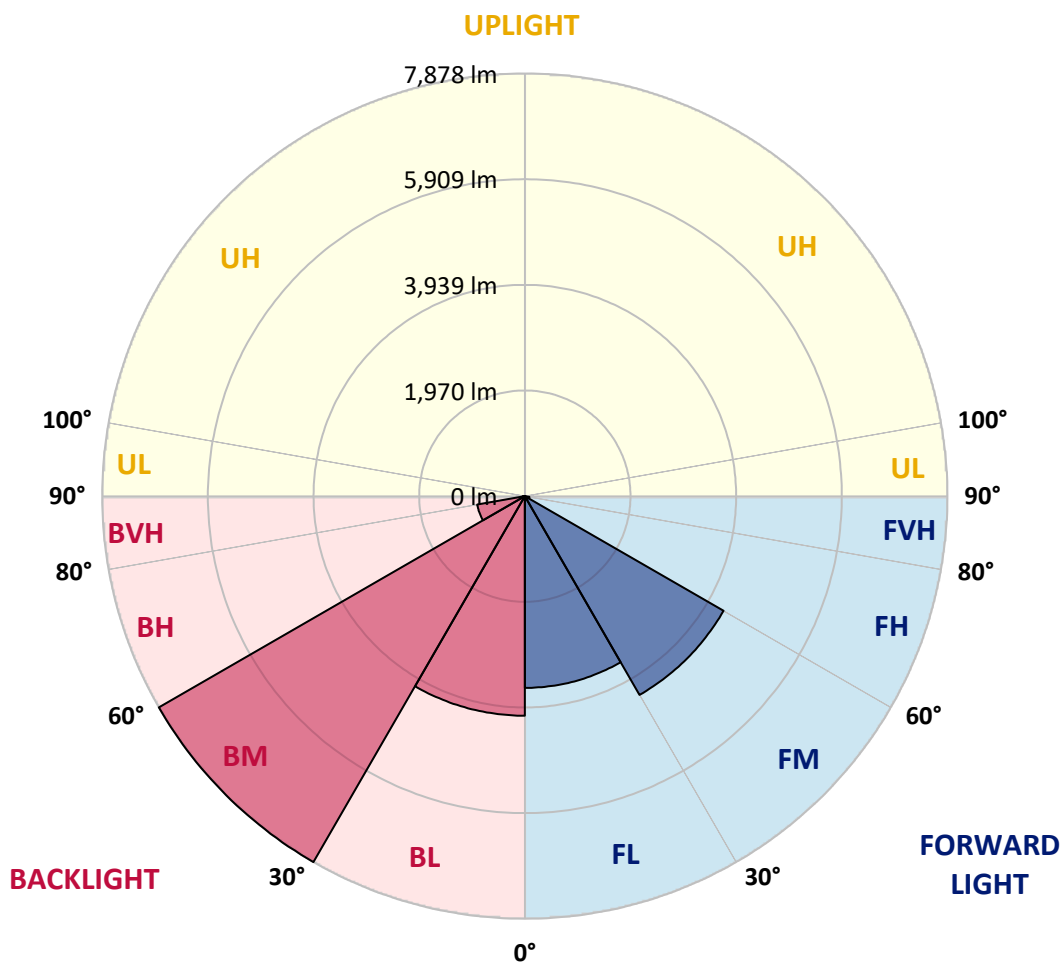
CATALOG NUMBER: IFLD-L-SA7B-830-U-LAM-VI

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3574.1	17.1			
FM (30°-60°)	4278.1	20.5			
FH (60°-80°)	85.7	0.4			G0/660
FVH (80°-90°)	6.2	0.0			G0/10
BL (0°-30°)	4093.1	19.6	B4/5000		
BM (30°-60°)	7878.1	37.8	B4/8500		
BH (60°-80°)	901.1	4.3	B2/1000		G2/1000
BVH (80°-90°)	39.9	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: P638556
 CATALOG NUMBER: IFLD-L-SA7B-830-U-LAM-VI

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8999.1	8999.1	8999.1	8999.1	8999.1	8999.1	8999.1	8999.1	8999.1	8999.1
2.5°	9038.9	8980.7	8925.5	8907.1	8983.7	9066.5	9014.4	9017.5	8999.1	9032.8
5°	9106.4	9026.7	8989.9	8962.3	8974.6	9060.4	8986.8	9014.4	8983.7	9023.6
7.5°	9081.8	9026.7	8989.9	8937.8	8977.6	9078.8	9008.3	9011.3	8996.0	9032.8
10°	9066.5	9026.7	8980.7	8986.8	9032.8	9118.6	9063.4	9094.1	9072.6	9094.1
12.5°	9103.3	9060.4	9035.9	9035.9	9075.7	9173.8	9146.2	9173.8	9164.6	9183.0
15°	8756.9	8796.8	9029.7	9133.9	9213.6	9311.7	9299.5	9327.0	9333.2	9360.8
17.5°	7386.8	7347.0	7328.6	7865.0	9290.3	9593.7	9584.5	9581.4	9550.8	9529.3
20°	7567.7	7552.4	7530.9	7570.7	7730.1	9740.8	9802.1	9425.1	9314.8	9305.6
22.5°	7855.8	7831.3	7751.6	7754.7	7803.7	8468.8	9498.7	9155.4	9118.6	9097.2
25°	7996.8	7947.8	7883.4	7865.0	7880.3	7757.7	8484.1	8891.8	8711.0	8628.2
27.5°	7748.5	7751.6	7699.5	7748.5	7690.3	7138.6	6829.0	8376.9	8370.7	8334.0
30°	7561.6	7552.4	7491.1	7552.4	7150.8	6534.7	6403.0	7812.9	7748.5	7699.5
32.5°	6988.4	6994.5	7172.3	7411.4	6752.4	6265.0	5866.6	6979.2	7589.1	7561.6
35°	4999.1	5011.4	5642.8	6822.9	6148.5	5728.6	5698.0	6032.1	7337.8	7350.1
37.5°	4812.2	4812.2	4796.8	4989.9	5673.5	5511.0	5572.3	5538.6	6721.7	6752.4
40°	4677.3	4649.7	4628.3	4324.8	3944.8	5357.8	5400.7	5247.4	6353.9	6360.0
42.5°	4514.9	4484.2	4490.3	3929.4	3531.0	4977.7	4858.2	4652.8	5740.9	5747.0
45°	4217.5	4269.7	4306.4	3439.0	3408.4	3555.5	4481.1	4352.4	5327.1	5440.5
47.5°	2145.6	2191.5	3362.4	3163.2	3233.7	3160.1	3785.4	3788.4	4432.1	4809.1
50°	1946.3	1934.1	1937.1	1845.2	2985.4	2556.3	2737.1	3472.7	3549.4	4088.8
52.5°	1814.5	1811.5	1624.5	1443.7	1875.8	2249.8	1986.2	2513.4	2639.0	3463.5
55°	1342.5	1440.6	1281.2	1357.8	1173.9	1802.3	1793.1	2268.2	2311.1	2777.0
57.5°	12.3	15.3	36.8	1032.9	812.2	901.1	1238.3	1547.9	1624.5	2163.9
60°	3.1	6.1	15.3	30.7	527.2	554.8	827.6	895.0	1008.4	1290.4
62.5°	0.0	0.0	6.1	15.3	27.6	226.8	263.6	288.1	444.4	659.0
65°	0.0	0.0	3.1	9.2	15.3	36.8	64.4	134.9	193.1	239.1
67.5°	0.0	0.0	3.1	6.1	12.3	18.4	36.8	52.1	82.8	141.0
70°	0.0	0.0	3.1	6.1	9.2	15.3	24.5	36.8	49.0	70.5
72.5°	0.0	0.0	3.1	6.1	6.1	18.4	18.4	27.6	36.8	46.0
75°	0.0	0.0	3.1	3.1	6.1	12.3	18.4	21.5	24.5	36.8
77.5°	0.0	0.0	3.1	6.1	9.2	12.3	15.3	24.5	21.5	21.5
80°	0.0	0.0	3.1	9.2	9.2	15.3	18.4	24.5	15.3	15.3
82.5°	0.0	0.0	3.1	12.3	9.2	30.7	30.7	33.7	12.3	12.3
85°	0.0	0.0	9.2	6.1	18.4	30.7	27.6	18.4	15.3	9.2
87.5°	0.0	0.0	3.1	3.1	6.1	9.2	21.5	18.4	6.1	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P638556
 CATALOG NUMBER: IFLD-L-SA7B-830-U-LAM-VI

CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
8999.1	0°	8999.1	8999.1	8999.1	8999.1	8999.1	8999.1	8999.1	8999.1	8999.1
8943.9	2.5°	9066.5	9026.7	9109.4	9100.2	9060.4	9042.0	9020.5	9002.1	8867.3
8950.0	5°	9069.6	9008.3	9109.4	9091.0	9084.9	9054.2	9035.9	9063.4	8940.8
8974.6	7.5°	9069.6	9008.3	9118.6	9124.7	9115.5	9091.0	9088.0	9106.4	9005.2
9017.5	10°	9130.9	9106.4	9198.3	9207.5	9195.2	9189.1	9173.8	9161.5	9054.2
9164.6	12.5°	9259.6	9210.6	9314.8	9342.4	9333.2	9348.5	9311.7	9330.1	9219.8
9314.8	15°	9415.9	9419.0	9498.7	9560.0	9553.9	9602.9	9547.7	9596.8	9517.1
9486.4	17.5°	9655.0	9688.7	9802.1	9894.1	9927.8	9964.6	9927.8	9943.1	9829.7
9296.4	20°	9403.7	9529.3	10074.9	10243.5	10314.0	10347.7	10286.4	10304.8	10191.4
9063.4	22.5°	9176.8	9339.3	9823.6	10350.8	10568.4	10635.8	10614.4	10611.3	10568.4
8603.7	25°	8842.8	9170.7	9388.3	9946.2	10629.7	10752.3	10764.6	10761.5	10697.1
8321.7	27.5°	8432.0	8505.6	9069.6	9409.8	10200.6	10666.5	10648.1	10559.2	10473.4
7736.3	30°	7907.9	8242.0	8496.4	9038.9	9645.8	10402.9	10402.9	10335.4	10246.6
7527.8	32.5°	7641.2	8073.4	8309.4	8505.6	9023.6	10108.6	10231.2	10160.7	10090.2
7365.4	35°	7500.3	7564.6	8116.3	8294.1	8732.4	9541.6	10038.1	9967.6	9915.5
6933.2	37.5°	7190.7	7340.9	7598.3	8073.4	8208.3	9078.8	9780.7	9743.9	9682.6
6372.3	40°	6501.0	6902.6	7298.0	7748.5	7889.5	8484.1	9468.0	9483.4	9400.6
5774.6	42.5°	6093.4	6366.2	6985.3	7288.8	7668.8	8101.0	9164.6	9189.1	9130.9
5471.2	45°	5615.2	5918.7	6353.9	6905.6	7423.6	7573.8	8628.2	8885.7	8836.6
4867.3	47.5°	5176.9	5422.1	5955.4	6513.3	7086.5	7065.0	8012.1	8496.4	8429.0
4404.5	50°	4554.7	4983.8	5235.2	5747.0	6602.2	6660.4	7356.2	8039.7	7984.5
3742.5	52.5°	3840.5	4380.0	4861.2	5330.2	6111.8	6249.7	6746.2	7573.8	7537.0
2859.7	55°	3356.3	3748.6	4291.1	4668.1	5517.1	5885.0	6289.5	7129.4	7111.0
2350.9	57.5°	2387.7	3144.8	3592.3	4119.5	4567.0	5232.1	5532.5	6225.2	6053.5
1302.7	60°	1618.4	1973.9	2519.5	3086.5	3386.9	4052.0	4331.0	4885.7	4839.8
778.5	62.5°	855.2	1183.1	1572.4	1857.4	2075.1	2721.8	2838.3	3436.0	3420.6
312.6	65°	377.0	499.6	852.1	999.2	1223.0	1523.3	1624.5	1839.0	1786.9
153.3	67.5°	196.2	297.3	481.2	591.6	744.8	858.2	941.0	1008.4	1051.3
101.1	70°	119.5	217.6	297.3	410.7	511.9	603.8	668.2	760.1	815.3
52.1	72.5°	88.9	137.9	205.4	315.7	370.9	478.2	542.5	610.0	659.0
42.9	75°	49.0	92.0	165.5	248.3	297.3	389.3	447.5	493.5	508.8
24.5	77.5°	30.7	70.5	137.9	193.1	232.9	315.7	300.4	343.3	380.1
18.4	80°	21.5	52.1	107.3	159.4	162.4	202.3	239.1	275.9	300.4
12.3	82.5°	15.3	42.9	79.7	122.6	107.3	156.3	187.0	214.6	156.3
9.2	85°	12.3	30.7	39.8	73.6	61.3	110.3	95.0	92.0	61.3
6.1	87.5°	9.2	15.3	27.6	33.7	24.5	24.5	30.7	36.8	30.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8999.1
8775.3
8836.6
8888.7
8965.4
9121.7
9385.3
9731.6
10111.7
10430.5
10599.0
10405.9
10212.8
10032.0
9842.0
9621.3
9382.2
9124.7
8842.8
8478.0
7993.7
7561.6
7132.4
6035.1
4842.8
3423.7
1765.5
1051.3
818.4
668.2
499.6
386.2
303.4
113.4
61.3
30.7
0.0

(END OF REPORT)