

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: P638527

Luminaire Tested: **IFLD-L-SA7B-827-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638527
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7B-827-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (112) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19294.5 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B4 - U0 - G2

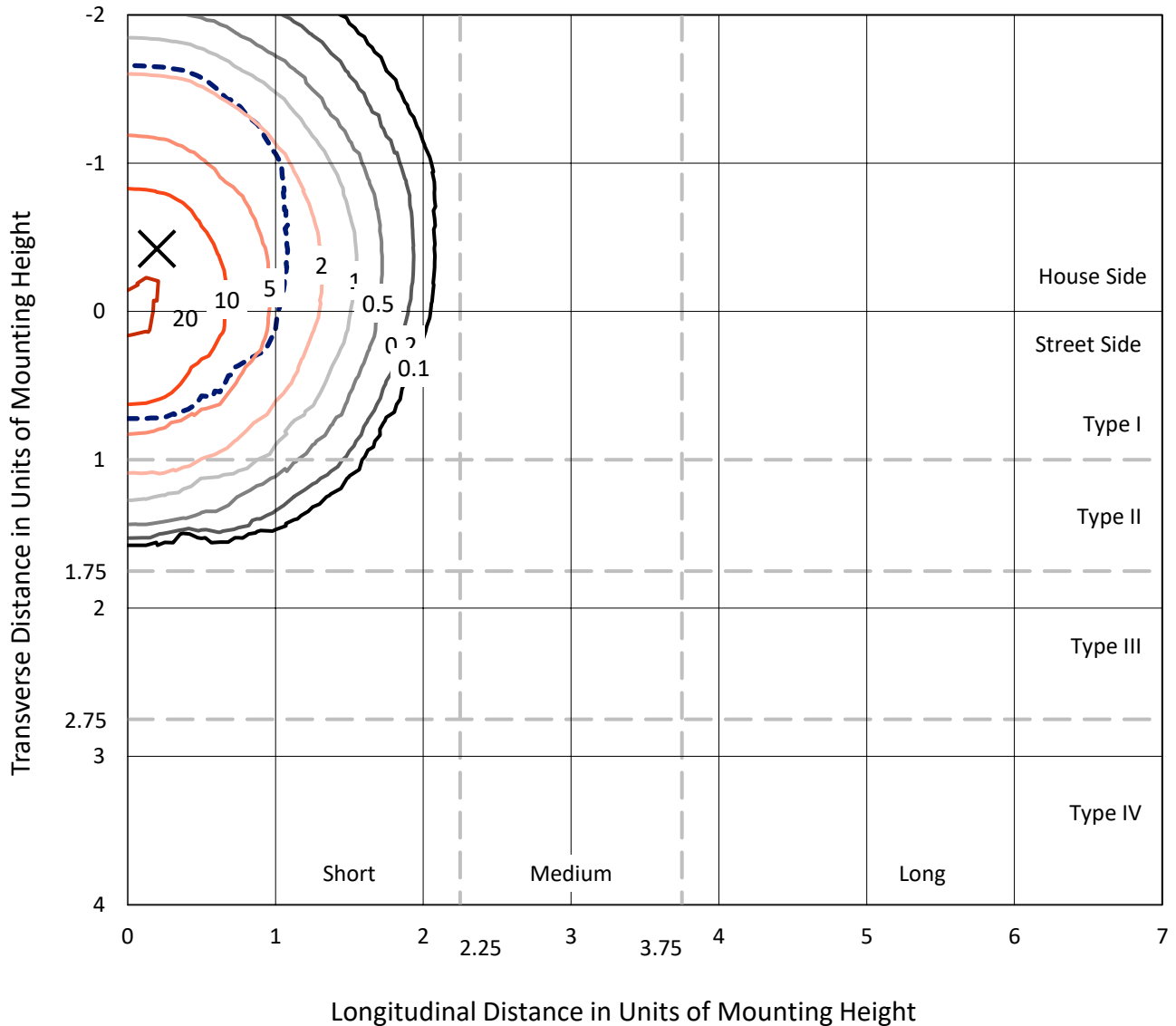
Input Watts (W): 281
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

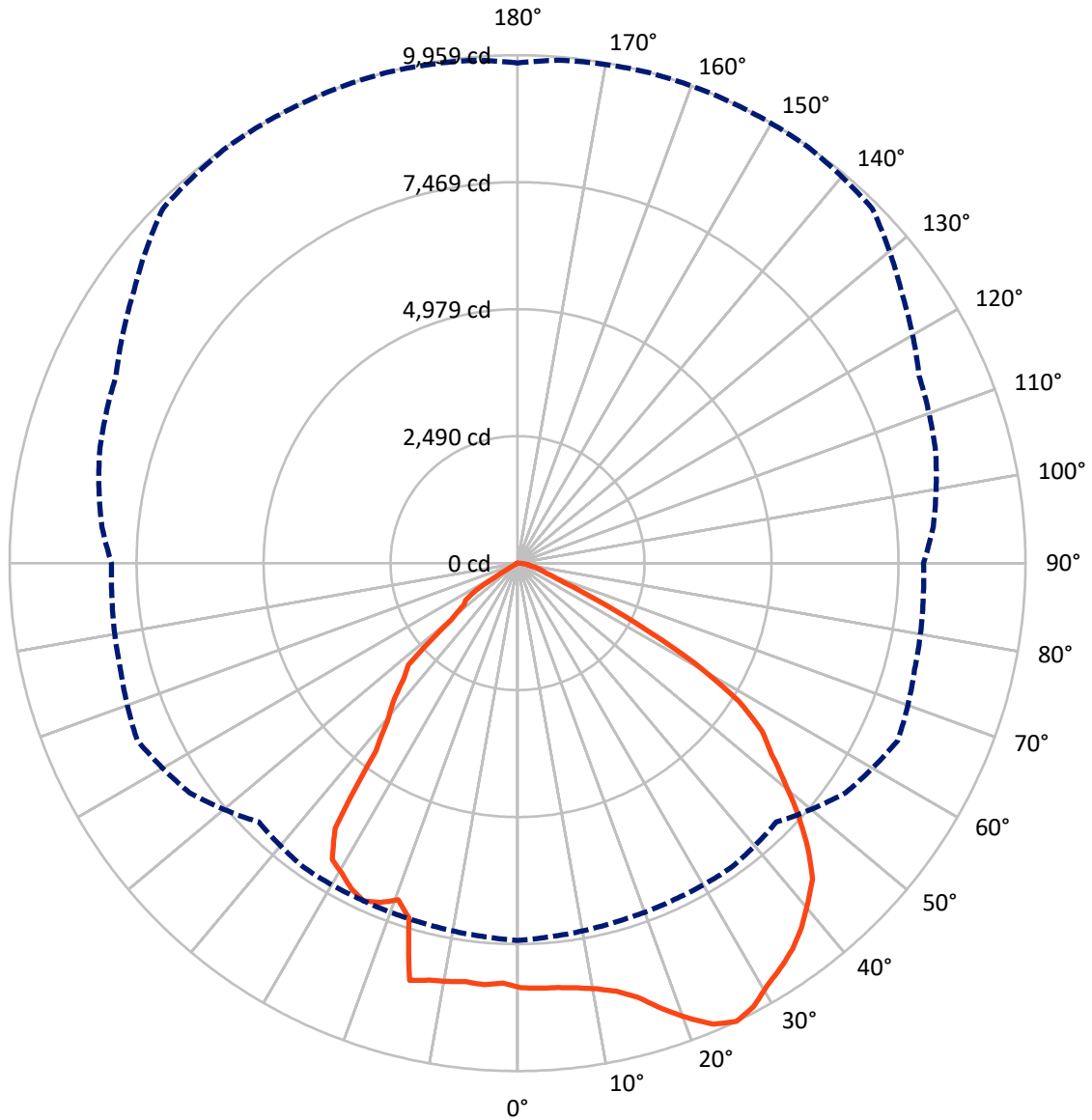
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 20.8 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	11945.3	0.0	11945.3
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	7349.2	0.0	7349.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	19294.5	0.0	19294.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	798.7	4.1
10°-20°	2438.8	12.6
20°-30°	3855.6	20.0
30°-40°	4355.2	22.6
40°-50°	4078.7	21.1
50°-60°	2812.0	14.6
60°-70°	755.5	3.9
70°-80°	157.4	0.8
80°-90°	42.6	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°	19294.5	100.0
0°-180°	19294.5	100.0



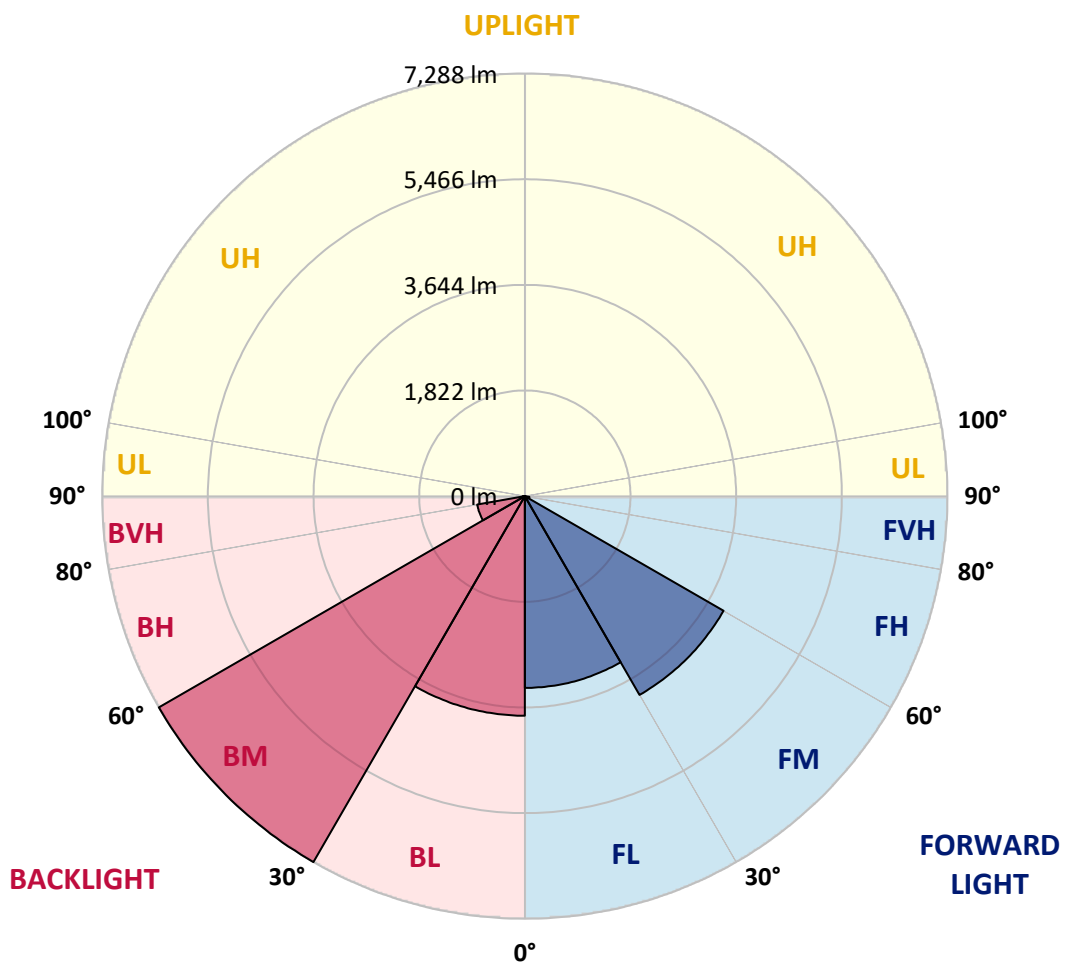
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3306.5	17.1			
FM (30°-60°)	3957.7	20.5			
FH (60°-80°)	79.3	0.4			G0/660
FVH (80°-90°)	5.7	0.0			G0/10
BL (0°-30°)	3786.6	19.6	B4/5000		
BM (30°-60°)	7288.2	37.8	B4/8500		
BH (60°-80°)	833.6	4.3	B2/1000		G2/1000
BVH (80°-90°)	36.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	8325.2	8325.2	8325.2	8325.2	8325.2	8325.2	8325.2	8325.2	8325.2	8325.2
2.5°	8362.1	8308.2	8257.2	8240.2	8311.0	8387.6	8339.4	8342.2	8325.2	8356.4
5°	8424.5	8350.7	8316.7	8291.2	8302.5	8381.9	8313.9	8339.4	8311.0	8347.9
7.5°	8401.8	8350.7	8316.7	8268.5	8305.4	8398.9	8333.7	8336.6	8322.4	8356.4
10°	8387.6	8350.7	8308.2	8313.9	8356.4	8435.8	8384.8	8413.1	8393.3	8413.1
12.5°	8421.6	8381.9	8359.2	8359.2	8396.1	8486.8	8461.3	8486.8	8478.3	8495.4
15°	8101.2	8138.1	8353.6	8450.0	8523.7	8614.4	8603.1	8628.6	8634.3	8659.8
17.5°	6833.7	6796.8	6779.8	7276.1	8594.6	8875.3	8866.8	8864.0	8835.6	8815.8
20°	7001.0	6986.8	6967.0	7003.8	7151.3	9011.4	9068.1	8719.4	8617.3	8608.8
22.5°	7267.6	7244.9	7171.1	7174.0	7219.3	7834.7	8787.4	8469.8	8435.8	8416.0
25°	7398.0	7352.6	7293.1	7276.1	7290.2	7176.8	7848.8	8226.0	8058.7	7982.1
27.5°	7168.3	7171.1	7122.9	7168.3	7114.4	6604.0	6317.6	7749.6	7743.9	7709.9
30°	6995.3	6986.8	6930.1	6986.8	6615.4	6045.4	5923.5	7227.9	7168.3	7122.9
32.5°	6465.1	6470.8	6635.2	6856.4	6246.8	5795.9	5427.3	6456.6	7020.9	6995.3
35°	4624.8	4636.1	5220.3	6312.0	5688.1	5299.7	5271.3	5580.4	6788.3	6799.7
37.5°	4451.8	4451.8	4437.7	4616.3	5248.6	5098.3	5155.1	5123.9	6218.4	6246.8
40°	4327.1	4301.6	4281.7	4001.0	3649.4	4956.6	4996.3	4854.5	5878.1	5883.8
42.5°	4176.8	4148.4	4154.1	3635.2	3266.6	4605.0	4494.4	4304.4	5311.0	5316.7
45°	3901.7	3949.9	3984.0	3181.5	3153.1	3289.3	4145.6	4026.5	4928.2	5033.1
47.5°	1984.9	2027.4	3110.6	2926.3	2991.5	2923.5	3501.9	3504.8	4100.2	4449.0
50°	1800.6	1789.2	1792.1	1707.0	2761.8	2364.9	2532.2	3212.7	3283.6	3782.6
52.5°	1678.7	1675.8	1502.8	1335.6	1735.4	2081.3	1837.4	2325.2	2441.4	3204.2
55°	1242.0	1332.7	1185.3	1256.2	1086.0	1667.3	1658.8	2098.3	2138.0	2569.0
57.5°	11.3	14.2	34.0	955.6	751.4	833.7	1145.6	1432.0	1502.8	2001.9
60°	2.8	5.7	14.2	28.4	487.7	513.2	765.6	828.0	932.9	1193.8
62.5°	0.0	0.0	5.7	14.2	25.5	209.8	243.9	266.5	411.2	609.6
65°	0.0	0.0	2.8	8.5	14.2	34.0	59.5	124.8	178.6	221.2
67.5°	0.0	0.0	2.8	5.7	11.3	17.0	34.0	48.2	76.6	130.4
70°	0.0	0.0	2.8	5.7	8.5	14.2	22.7	34.0	45.4	65.2
72.5°	0.0	0.0	2.8	5.7	5.7	17.0	17.0	25.5	34.0	42.5
75°	0.0	0.0	2.8	2.8	5.7	11.3	17.0	19.8	22.7	34.0
77.5°	0.0	0.0	2.8	5.7	8.5	11.3	14.2	22.7	19.8	19.8
80°	0.0	0.0	2.8	8.5	8.5	14.2	17.0	22.7	14.2	14.2
82.5°	0.0	0.0	2.8	11.3	8.5	28.4	28.4	31.2	11.3	11.3
85°	0.0	0.0	8.5	5.7	17.0	28.4	25.5	17.0	14.2	8.5
87.5°	0.0	0.0	2.8	2.8	5.7	8.5	19.8	17.0	5.7	5.7
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°
8325.2	0°	8325.2	8325.2	8325.2	8325.2	8325.2	8325.2	8325.2	8325.2	8325.2
8274.2	2.5°	8387.6	8350.7	8427.3	8418.8	8381.9	8364.9	8345.1	8328.1	8203.3
8279.9	5°	8390.4	8333.7	8427.3	8410.3	8404.6	8376.3	8359.2	8384.8	8271.3
8302.5	7.5°	8390.4	8333.7	8435.8	8441.5	8433.0	8410.3	8407.5	8424.5	8330.9
8342.2	10°	8447.1	8424.5	8509.5	8518.0	8506.7	8501.0	8486.8	8475.5	8376.3
8478.3	12.5°	8566.2	8520.9	8617.3	8642.8	8634.3	8648.5	8614.4	8631.5	8529.4
8617.3	15°	8710.9	8713.7	8787.4	8844.1	8838.5	8883.8	8832.8	8878.2	8804.4
8776.1	17.5°	8932.0	8963.2	9068.1	9153.2	9184.4	9218.4	9184.4	9198.6	9093.7
8600.3	20°	8699.5	8815.8	9320.5	9476.5	9541.7	9572.9	9516.2	9533.2	9428.3
8384.8	22.5°	8489.7	8640.0	9088.0	9575.7	9777.0	9839.4	9819.6	9816.7	9777.0
7959.4	25°	8180.6	8484.0	8685.3	9201.4	9833.7	9947.2	9958.5	9955.7	9896.1
7698.6	27.5°	7800.6	7868.7	8390.4	8705.2	9436.8	9867.8	9850.8	9768.5	9689.1
7157.0	30°	7315.8	7624.8	7860.2	8362.1	8923.5	9623.9	9623.9	9561.5	9479.3
6964.1	32.5°	7069.1	7468.9	7687.2	7868.7	8347.9	9351.7	9465.1	9399.9	9334.7
6813.9	35°	6938.6	6998.2	7508.6	7673.0	8078.5	8827.1	9286.5	9221.3	9173.1
6414.0	37.5°	6652.2	6791.2	7029.4	7468.9	7593.6	8398.9	9048.3	9014.3	8957.6
5895.1	40°	6014.2	6385.7	6751.5	7168.3	7298.7	7848.8	8759.1	8773.2	8696.7
5342.2	42.5°	5637.1	5889.5	6462.3	6743.0	7094.6	7494.4	8478.3	8501.0	8447.1
5061.5	45°	5194.8	5475.5	5878.1	6388.5	6867.7	7006.7	7982.1	8220.3	8174.9
4502.9	47.5°	4789.3	5016.1	5509.5	6025.6	6555.8	6536.0	7412.2	7860.2	7797.8
4074.7	50°	4213.6	4610.6	4843.1	5316.7	6107.8	6161.7	6805.4	7437.7	7386.6
3462.2	52.5°	3553.0	4052.0	4497.2	4931.0	5654.1	5781.7	6241.1	7006.7	6972.7
2645.6	55°	3104.9	3467.9	3969.8	4318.6	5104.0	5444.3	5818.6	6595.5	6578.5
2174.9	57.5°	2208.9	2909.3	3323.3	3811.0	4225.0	4840.3	5118.2	5759.0	5600.2
1205.1	60°	1497.2	1826.1	2330.8	2855.4	3133.3	3748.6	4006.7	4519.9	4477.4
720.2	62.5°	791.1	1094.5	1454.6	1718.4	1919.7	2518.0	2625.7	3178.7	3164.5
289.2	65°	348.8	462.2	788.3	924.4	1131.4	1409.3	1502.8	1701.3	1653.1
141.8	67.5°	181.5	275.0	445.2	547.3	689.0	794.0	870.5	932.9	972.6
93.6	70°	110.6	201.3	275.0	380.0	473.5	558.6	618.2	703.2	754.3
48.2	72.5°	82.2	127.6	190.0	292.1	343.1	442.3	501.9	564.3	609.6
39.7	75°	45.4	85.1	153.1	229.7	275.0	360.1	414.0	456.5	470.7
22.7	77.5°	28.4	65.2	127.6	178.6	215.5	292.1	277.9	317.6	351.6
17.0	80°	19.8	48.2	99.2	147.4	150.3	187.1	221.2	255.2	277.9
11.3	82.5°	14.2	39.7	73.7	113.4	99.2	144.6	173.0	198.5	144.6
8.5	85°	11.3	28.4	36.9	68.1	56.7	102.1	87.9	85.1	56.7
5.7	87.5°	8.5	14.2	25.5	31.2	22.7	22.7	28.4	34.0	28.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
8325.2
8118.2
8174.9
8223.1
8294.0
8438.6
8682.5
9002.9
9354.5
9649.4
9805.4
9626.7
9448.1
9280.8
9105.0
8900.8
8679.7
8441.5
8180.6
7843.2
7395.2
6995.3
6598.4
5583.2
4480.2
3167.3
1633.3
972.6
757.1
618.2
462.2
357.3
280.7
104.9
56.7
28.4
0.0

(END OF REPORT)