

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: P636881

Luminaire Tested: **IFLD-L-SA8D-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636881
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (128) 2700K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26012.8 lumens
Efficiency: N/A
Efficacy: 53.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G3

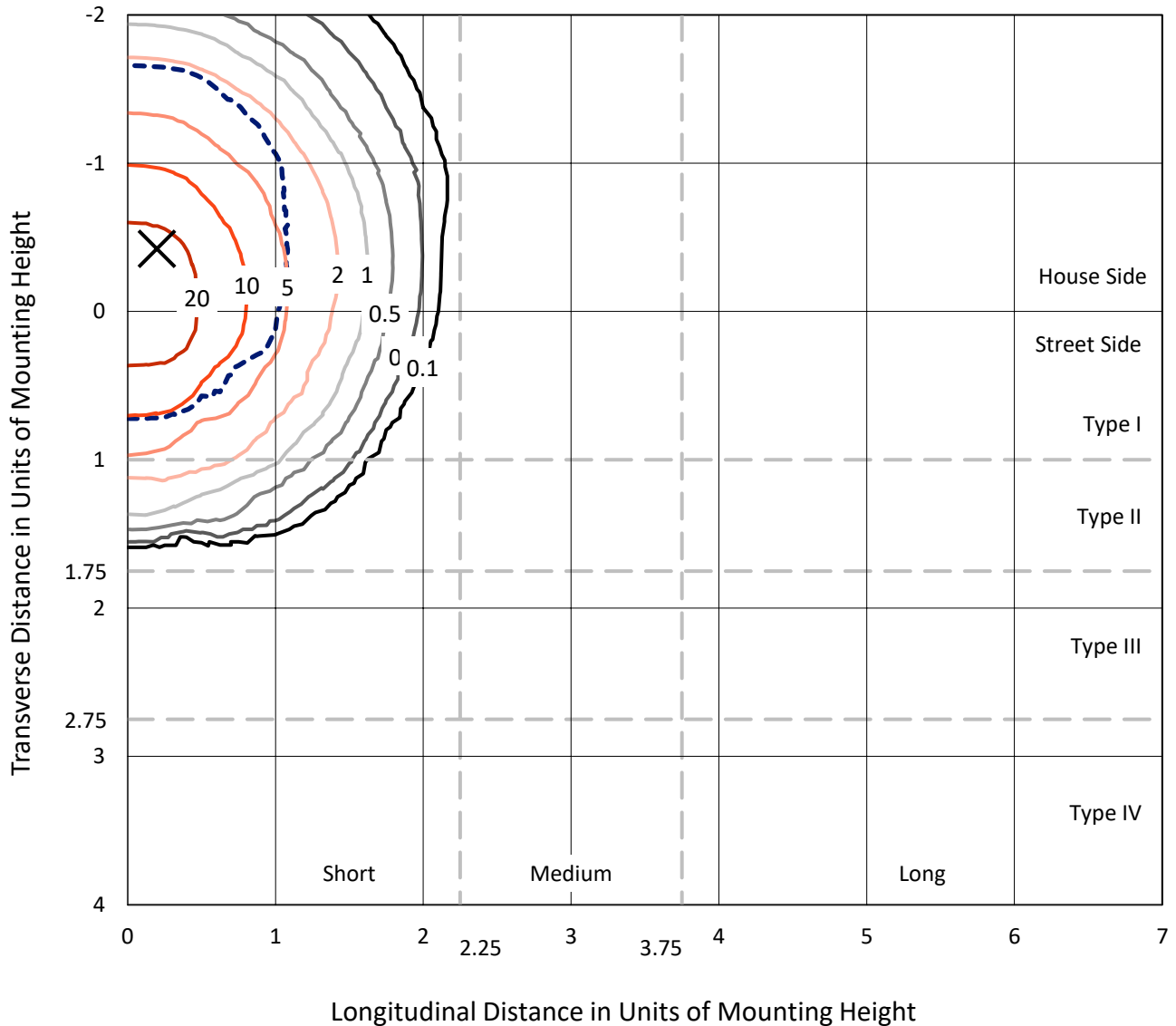
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

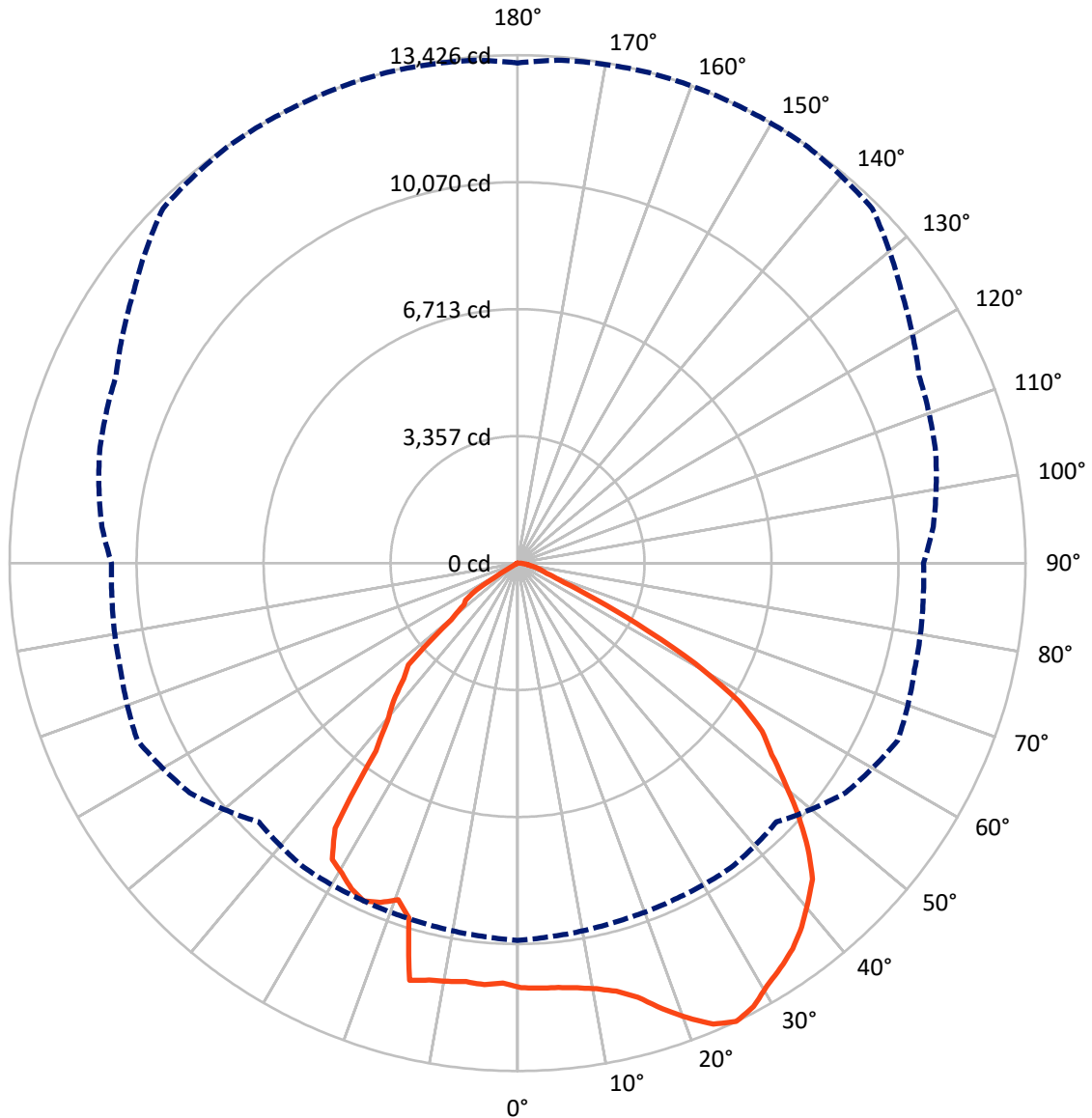
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 28.1 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	16104.6	0.0	16104.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	9908.2	0.0	9908.2
	% Fixture	38.1	0.0	38.1
Total	Lumens	26012.8	0.0	26012.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1076.8	4.1
10°-20°	3288.0	12.6
20°-30°	5198.1	20.0
30°-40°	5871.7	22.6
40°-50°	5498.9	21.1
50°-60°	3791.1	14.6
60°-70°	1018.5	3.9
70°-80°	212.3	0.8
80°-90°	57.4	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°	26012.8	100.0
0°-180°	26012.8	100.0



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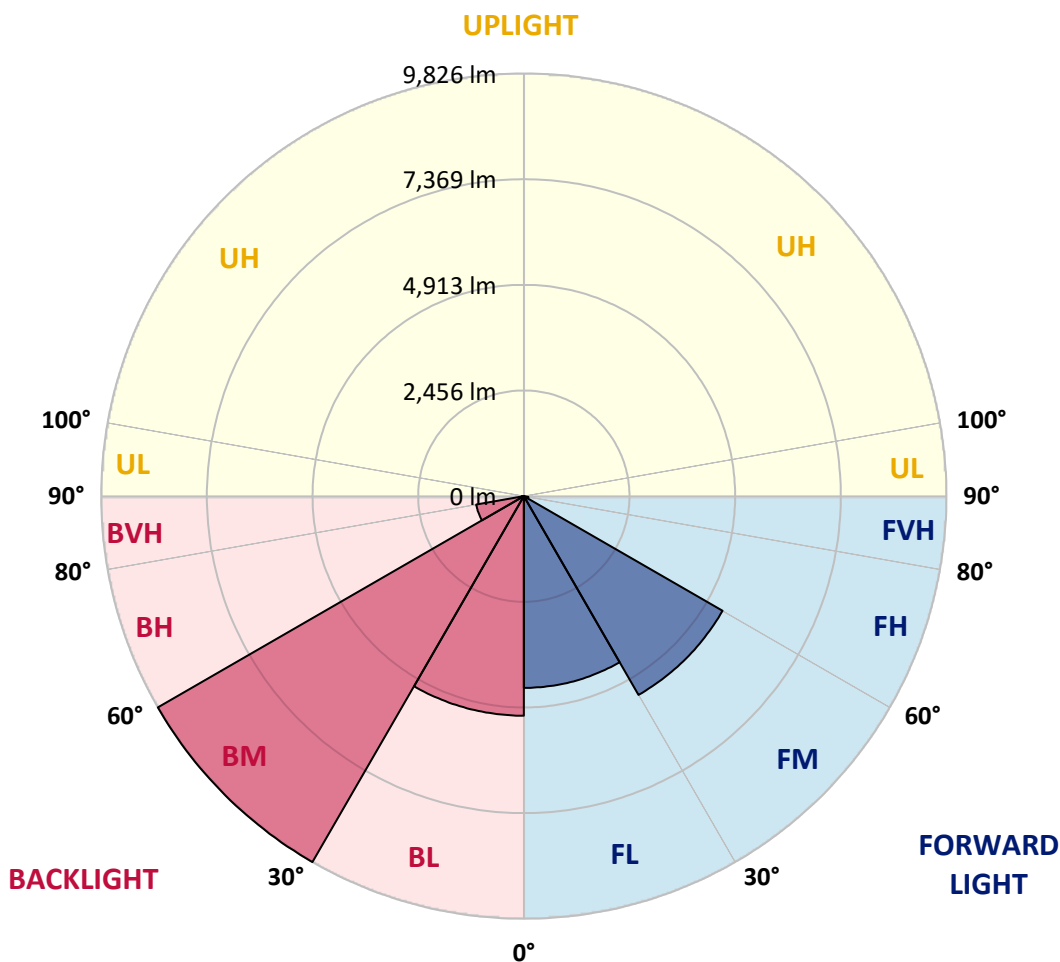
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4457.8	17.1			
FM (30°-60°)	5335.8	20.5			
FH (60°-80°)	106.9	0.4			G0/660
FVH (80°-90°)	7.7	0.0			G0/10
BL (0°-30°)	5105.1	19.6	B5		
BM (30°-60°)	9826.0	37.8	B5		
BH (60°-80°)	1123.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	49.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	11224.1	11224.1	11224.1	11224.1	11224.1	11224.1	11224.1	11224.1	11224.1	11224.1
2.5°	11273.8	11201.1	11132.3	11109.4	11205.0	11308.2	11243.2	11247.0	11224.1	11266.1
5°	11357.9	11258.5	11212.6	11178.2	11193.5	11300.5	11208.8	11243.2	11205.0	11254.7
7.5°	11327.3	11258.5	11212.6	11147.6	11197.3	11323.5	11235.5	11239.4	11220.3	11266.1
10°	11308.2	11258.5	11201.1	11208.8	11266.1	11373.2	11304.4	11342.6	11315.8	11342.6
12.5°	11354.1	11300.5	11270.0	11270.0	11319.7	11442.0	11407.6	11442.0	11430.5	11453.5
15°	10922.1	10971.8	11262.3	11392.3	11491.7	11614.0	11598.7	11633.1	11640.8	11675.2
17.5°	9213.2	9163.5	9140.6	9809.6	11587.3	11965.7	11954.3	11950.4	11912.2	11885.4
20°	9438.8	9419.7	9392.9	9442.6	9641.4	12149.2	12225.7	11755.5	11617.8	11606.4
22.5°	9798.1	9767.6	9668.2	9672.0	9733.1	10562.7	11847.2	11419.0	11373.2	11346.4
25°	9974.0	9912.8	9832.5	9809.6	9828.7	9675.8	10581.8	11090.3	10864.7	10761.5
27.5°	9664.3	9668.2	9603.2	9664.3	9591.7	8903.6	8517.5	10448.0	10440.4	10394.5
30°	9431.1	9419.7	9343.2	9419.7	8918.9	8150.5	7986.1	9744.6	9664.3	9603.2
32.5°	8716.2	8723.9	8945.6	9243.8	8421.9	7814.0	7317.1	8704.8	9465.5	9431.1
35°	6235.2	6250.5	7038.0	8509.8	7668.8	7145.0	7106.8	7523.5	9152.1	9167.4
37.5°	6002.0	6002.0	5982.9	6223.7	7076.2	6873.6	6950.1	6908.0	8383.7	8421.9
40°	5833.8	5799.4	5772.6	5394.1	4920.1	6682.5	6736.0	6544.8	7924.9	7932.6
42.5°	5631.2	5592.9	5600.6	4901.0	4404.0	6208.4	6059.3	5803.2	7160.3	7168.0
45°	5260.3	5325.3	5371.2	4289.3	4251.1	4434.6	5589.1	5428.5	6644.2	6785.7
47.5°	2676.0	2733.4	4193.7	3945.2	4033.2	3941.4	4721.3	4725.1	5527.9	5998.2
50°	2427.6	2412.3	2416.1	2301.4	3723.5	3188.3	3413.9	4331.4	4426.9	5099.8
52.5°	2263.2	2259.3	2026.1	1800.6	2339.6	2806.0	2477.2	3134.8	3291.5	4319.9
55°	1674.4	1796.8	1598.0	1693.6	1464.2	2247.9	2236.4	2829.0	2882.5	3463.6
57.5°	15.3	19.1	45.9	1288.3	1013.1	1123.9	1544.5	1930.6	2026.1	2699.0
60°	3.8	7.6	19.1	38.2	657.5	691.9	1032.2	1116.3	1257.7	1609.4
62.5°	0.0	0.0	7.6	19.1	34.4	282.9	328.8	359.4	554.3	821.9
65°	0.0	0.0	3.8	11.5	19.1	45.9	80.3	168.2	240.8	298.2
67.5°	0.0	0.0	3.8	7.6	15.3	22.9	45.9	65.0	103.2	175.9
70°	0.0	0.0	3.8	7.6	11.5	19.1	30.6	45.9	61.2	87.9
72.5°	0.0	0.0	3.8	7.6	7.6	22.9	22.9	34.4	45.9	57.3
75°	0.0	0.0	3.8	3.8	7.6	15.3	22.9	26.8	30.6	45.9
77.5°	0.0	0.0	3.8	7.6	11.5	15.3	19.1	30.6	26.8	26.8
80°	0.0	0.0	3.8	11.5	11.5	19.1	22.9	30.6	19.1	19.1
82.5°	0.0	0.0	3.8	15.3	11.5	38.2	38.2	42.1	15.3	15.3
85°	0.0	0.0	11.5	7.6	22.9	38.2	34.4	22.9	19.1	11.5
87.5°	0.0	0.0	3.8	3.8	7.6	11.5	26.8	22.9	7.6	7.6
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°
11224.1	0°	11224.1	11224.1	11224.1	11224.1	11224.1	11224.1	11224.1	11224.1	11224.1
11155.3	2.5°	11308.2	11258.5	11361.7	11350.2	11300.5	11277.6	11250.8	11227.9	11059.7
11162.9	5°	11312.0	11235.5	11361.7	11338.8	11331.1	11292.9	11270.0	11304.4	11151.4
11193.5	7.5°	11312.0	11235.5	11373.2	11380.8	11369.4	11338.8	11334.9	11357.9	11231.7
11247.0	10°	11388.5	11357.9	11472.6	11484.0	11468.7	11461.1	11442.0	11426.7	11292.9
11430.5	12.5°	11549.0	11487.9	11617.8	11652.2	11640.8	11659.9	11614.0	11637.0	11499.3
11617.8	15°	11744.0	11747.8	11847.2	11923.7	11916.0	11977.2	11908.4	11969.5	11870.2
11831.9	17.5°	12042.2	12084.2	12225.7	12340.4	12382.4	12428.3	12382.4	12401.5	12260.1
11594.9	20°	11728.7	11885.4	12565.9	12776.2	12864.1	12906.2	12829.7	12852.6	12711.2
11304.4	22.5°	11445.8	11648.4	12252.4	12910.0	13181.4	13265.5	13238.8	13234.9	13181.4
10730.9	25°	11029.1	11438.2	11709.6	12405.4	13257.9	13410.8	13426.1	13422.3	13342.0
10379.2	27.5°	10516.8	10608.6	11312.0	11736.4	12722.7	13303.7	13280.8	13169.9	13062.9
9649.0	30°	9863.1	10279.8	10597.1	11273.8	12030.7	12975.0	12975.0	12890.9	12780.0
9389.1	32.5°	9530.5	10069.6	10363.9	10608.6	11254.7	12608.0	12760.9	12673.0	12585.0
9186.5	35°	9354.7	9435.0	10123.1	10344.8	10891.5	11900.7	12520.0	12432.1	12367.1
8647.4	37.5°	8968.6	9155.9	9477.0	10069.6	10237.8	11323.5	12198.9	12153.0	12076.6
7947.8	40°	8108.4	8609.2	9102.4	9664.3	9840.2	10581.8	11809.0	11828.1	11724.9
7202.4	42.5°	7600.0	7940.2	8712.4	9090.9	9564.9	10104.0	11430.5	11461.1	11388.5
6823.9	45°	7003.6	7382.1	7924.9	8613.0	9259.1	9446.4	10761.5	11082.6	11021.5
6070.8	47.5°	6456.9	6762.7	7427.9	8123.7	8838.6	8811.8	9993.1	10597.1	10513.0
5493.5	50°	5680.9	6216.1	6529.5	7168.0	8234.6	8307.2	9175.0	10027.5	9958.7
4667.8	52.5°	4790.1	5462.9	6063.1	6648.1	7622.9	7794.9	8414.2	9446.4	9400.6
3566.8	55°	4186.1	4675.4	5352.1	5822.3	6881.2	7340.0	7844.6	8892.1	8869.2
2932.2	57.5°	2978.1	3922.3	4480.5	5138.0	5696.1	6525.7	6900.4	7764.3	7550.3
1624.7	60°	2018.5	2462.0	3142.4	3849.7	4224.3	5053.9	5401.8	6093.7	6036.4
971.0	62.5°	1066.6	1475.6	1961.2	2316.7	2588.1	3394.7	3540.0	4285.5	4266.4
389.9	65°	470.2	623.1	1062.8	1246.3	1525.3	1900.0	2026.1	2293.7	2228.8
191.1	67.5°	244.7	370.8	600.2	737.8	929.0	1070.4	1173.6	1257.7	1311.3
126.2	70°	149.1	271.4	370.8	512.3	638.4	753.1	833.4	948.1	1016.9
65.0	72.5°	110.9	172.0	256.1	393.8	462.6	596.4	676.7	760.8	821.9
53.5	75°	61.2	114.7	206.4	309.7	370.8	485.5	558.1	615.5	634.6
30.6	77.5°	38.2	87.9	172.0	240.8	290.5	393.8	374.6	428.2	474.0
22.9	80°	26.8	65.0	133.8	198.8	202.6	252.3	298.2	344.1	374.6
15.3	82.5°	19.1	53.5	99.4	152.9	133.8	195.0	233.2	267.6	195.0
11.5	85°	15.3	38.2	49.7	91.7	76.5	137.6	118.5	114.7	76.5
7.6	87.5°	11.5	19.1	34.4	42.1	30.6	30.6	38.2	45.9	38.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
11224.1
10945.0
11021.5
11086.5
11182.0
11377.0
11705.8
12137.8
12611.8
13009.4
13219.6
12978.8
12738.0
12512.4
12275.4
12000.1
11701.9
11380.8
11029.1
10574.2
9970.2
9431.1
8895.9
7527.3
6040.2
4270.2
2202.0
1311.3
1020.7
833.4
623.1
481.7
378.5
141.4
76.5
38.2
0.0

(END OF REPORT)