

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: P638033

Luminaire Tested: **IFLD-L-SA7A-830-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638033
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA7A-830-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (112) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20971.9 lumens
Efficiency: N/A
Efficacy: 96.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

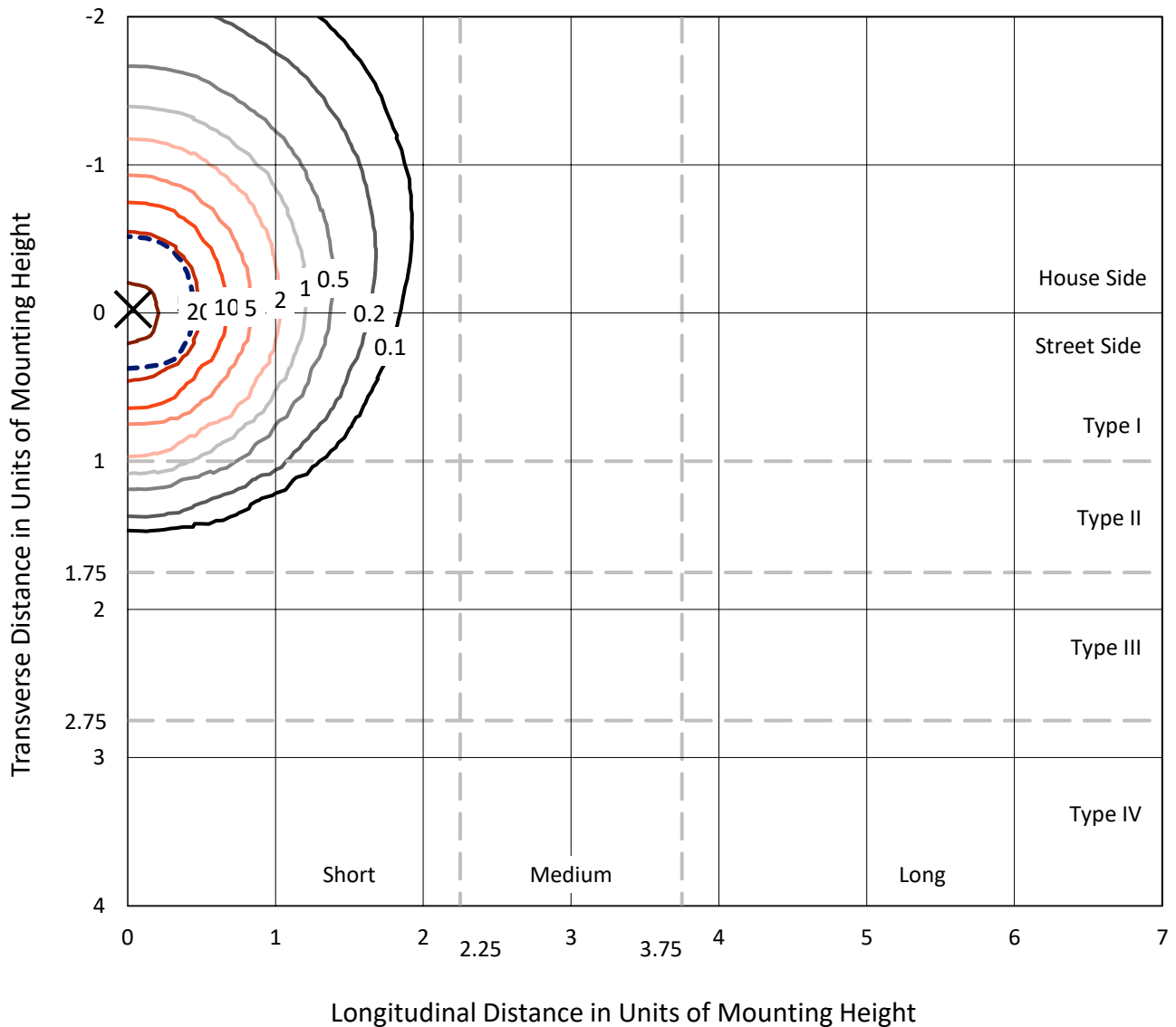
Input Watts (W): 217.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

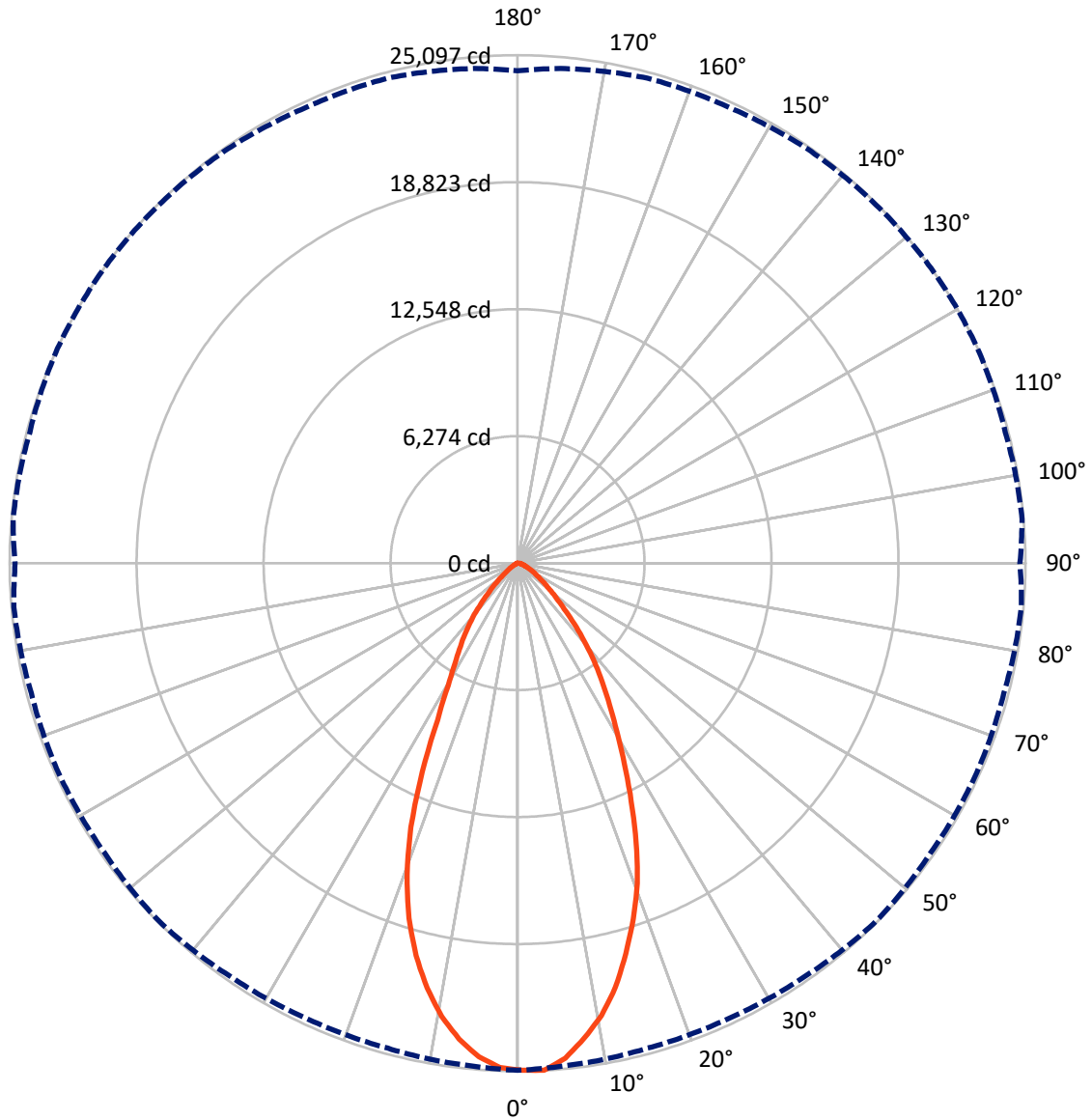
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 62.6 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 125-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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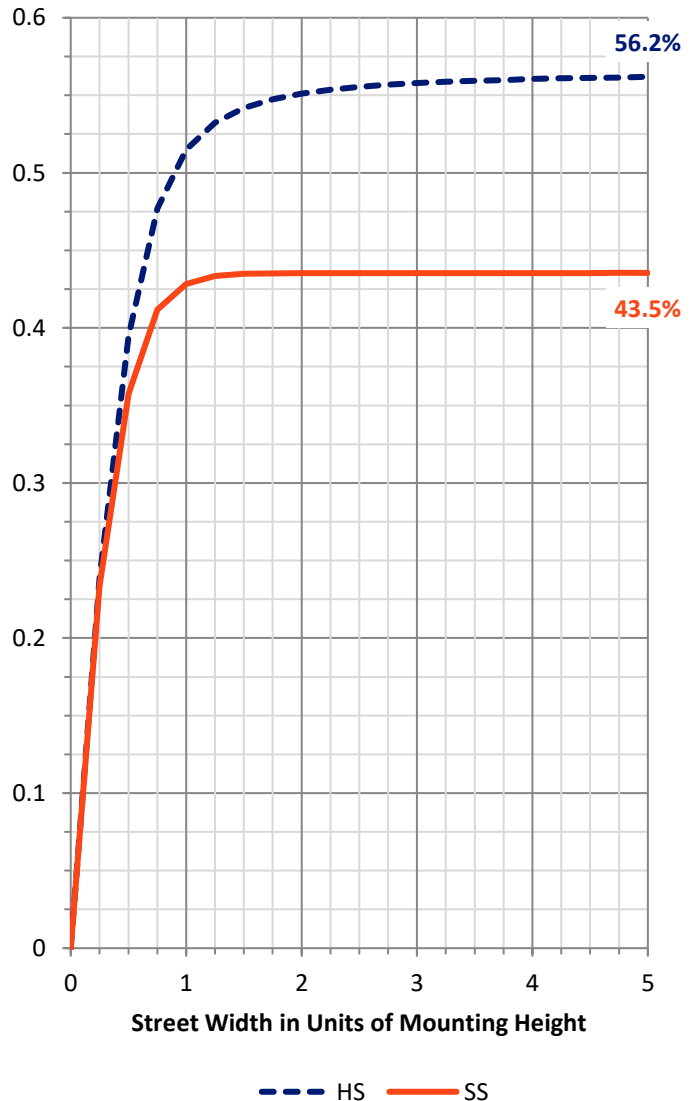
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11900.3	0.0	11900.3
	% Fixture	56.7	0.0	56.7
Street Side	Lumens	9071.6	0.0	9071.6
	% Fixture	43.3	0.0	43.3
Total	Lumens	20971.9	0.0	20971.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2275.2	10.8
10°-20°	5423.6	25.9
20°-30°	5523.8	26.3
30°-40°	4119.1	19.6
40°-50°	2151.9	10.3
50°-60°	905.1	4.3
60°-70°	369.7	1.8
70°-80°	155.6	0.7
80°-90°	47.9	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°	20971.9	100.0
0°-180°	20971.9	100.0



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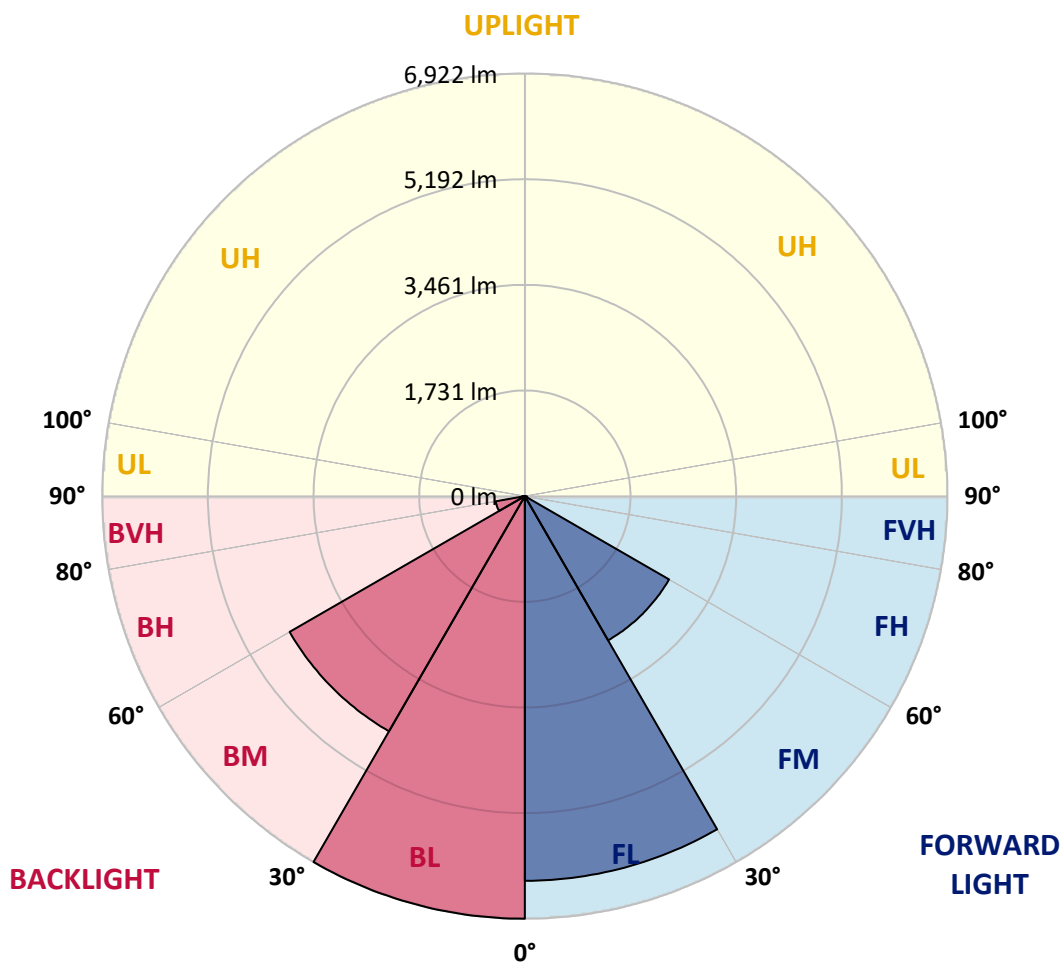
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6300.2	30.0			
FM (30°-60°)	2727.5	13.0			
FH (60°-80°)	39.5	0.2			G0/660
FVH (80°-90°)	4.5	0.0			G0/10
BL (0°-30°)	6922.4	33.0	B5		
BM (30°-60°)	4448.6	21.2	B3/5000		
BH (60°-80°)	485.7	2.3	B1/500		G1/500
BVH (80°-90°)	43.5	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-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	25056.3	25056.3	25056.3	25056.3	25056.3	25056.3	25056.3	25056.3	25056.3	25056.3
2.5°	25059.0	24956.6	24811.2	24797.7	24873.1	25037.4	24932.4	24937.8	24873.1	24983.6
5°	24665.7	24568.7	24469.0	24337.0	24447.5	24517.5	24463.6	24404.4	24320.9	24428.6
7.5°	23922.2	23868.3	23720.1	23660.8	23728.2	23806.3	23690.5	23674.3	23558.5	23698.6
10°	22785.3	22763.8	22618.3	22583.3	22642.5	22761.1	22709.9	22699.1	22626.4	22612.9
12.5°	21605.4	21521.9	21341.4	21330.6	21419.5	21597.3	21459.9	21327.9	21368.3	21403.3
15°	18566.6	18477.7	18924.9	19628.0	19997.1	19983.6	20024.0	19865.1	19816.6	19832.8
17.5°	14760.1	14609.2	14770.9	15859.2	17613.0	18631.3	18351.1	18009.0	17825.8	17704.5
20°	12739.6	12747.7	12718.1	12998.2	14092.0	16414.2	16346.8	15686.8	15447.0	15347.4
22.5°	11511.2	11465.4	11400.7	11489.6	11783.3	13146.4	14059.7	13453.5	13370.0	13259.6
25°	10307.0	10307.0	10228.9	10317.8	10401.3	10420.1	11336.1	11583.9	11422.3	11422.3
27.5°	9264.4	9210.6	9175.5	9216.0	9105.5	8574.8	8690.6	9959.5	9849.0	9781.7
30°	8230.0	8213.8	8154.5	8208.4	7798.9	7200.9	6958.4	8405.1	8520.9	8496.7
32.5°	6794.1	6858.8	7122.8	7206.3	6505.9	6023.6	5792.0	6977.3	7440.7	7421.8
35°	4617.4	4671.3	4973.0	5969.8	5393.3	5048.4	4981.1	5549.5	6311.9	6384.6
37.5°	3677.2	3669.1	3755.3	3933.1	4334.5	4251.0	4232.2	4380.3	5148.1	5180.4
40°	3030.7	3019.9	3017.2	2871.7	2772.1	3534.4	3483.3	3394.4	4059.8	4124.4
42.5°	2443.4	2454.2	2462.3	2144.4	1998.9	2726.3	2696.6	2605.0	3184.2	3259.7
45°	1918.1	1915.4	1931.6	1597.5	1557.1	1743.0	2015.1	1942.3	2403.0	2483.8
47.5°	994.1	1029.1	1247.3	1236.5	1255.4	1236.5	1524.8	1505.9	1807.6	1936.9
50°	668.1	678.9	697.7	700.4	988.7	910.6	1034.5	1171.9	1266.2	1465.5
52.5°	517.2	525.3	476.8	447.2	606.1	673.5	678.9	810.9	883.6	1085.7
55°	288.3	323.3	347.5	350.2	334.0	498.4	495.7	600.7	657.3	792.0
57.5°	37.7	45.8	70.0	226.3	223.6	277.5	347.5	436.4	468.7	579.2
60°	2.7	5.4	8.1	35.0	148.2	161.6	237.1	272.1	326.0	406.8
62.5°	0.0	0.0	2.7	8.1	29.6	94.3	123.9	142.8	191.3	266.7
65°	0.0	0.0	2.7	5.4	10.8	35.0	48.5	78.1	113.1	164.3
67.5°	0.0	0.0	2.7	5.4	8.1	13.5	21.6	35.0	59.3	99.7
70°	0.0	0.0	2.7	5.4	8.1	10.8	16.2	21.6	32.3	53.9
72.5°	0.0	0.0	2.7	2.7	5.4	13.5	13.5	16.2	21.6	29.6
75°	0.0	0.0	2.7	5.4	8.1	13.5	13.5	13.5	16.2	18.9
77.5°	0.0	0.0	2.7	5.4	8.1	13.5	10.8	13.5	13.5	13.5
80°	0.0	0.0	2.7	5.4	8.1	13.5	16.2	13.5	10.8	10.8
82.5°	0.0	0.0	2.7	8.1	8.1	18.9	18.9	18.9	8.1	8.1
85°	0.0	0.0	5.4	8.1	13.5	21.6	21.6	16.2	8.1	5.4
87.5°	0.0	0.0	2.7	5.4	5.4	10.8	16.2	13.5	5.4	2.7
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°
25056.3	0°	25056.3	25056.3	25056.3	25056.3	25056.3	25056.3	25056.3	25056.3	25056.3
24821.9	2.5°	25021.3	24953.9	25080.5	25096.7	25042.8	24975.5	24819.2	24805.8	24533.7
24272.4	5°	24547.1	24436.7	24517.5	24571.4	24552.5	24479.8	24415.1	24355.9	24110.7
23380.7	7.5°	23663.5	23623.1	23660.8	23701.3	23779.4	23701.3	23674.3	23612.4	23369.9
22502.5	10°	22682.9	22607.5	22750.3	22731.4	22709.9	22688.3	22575.2	22586.0	22300.4
21306.3	12.5°	21478.8	21352.1	21489.5	21505.7	21489.5	21414.1	21287.5	21341.4	21080.1
19690.0	15°	19859.7	19846.2	19945.9	20010.6	20056.4	19975.5	19932.4	19959.4	19803.1
17610.3	17.5°	17871.6	18046.7	18372.6	18483.1	18485.8	18569.3	18545.1	18512.7	18396.9
15306.9	20°	15533.2	15870.0	16371.1	16885.6	17033.8	16963.7	16931.4	16990.7	16818.2
13143.7	22.5°	13375.4	13663.6	14245.5	14997.1	15430.9	15474.0	15465.9	15414.7	15347.4
11411.5	25°	11543.5	11799.4	12357.1	13044.0	13876.5	14000.4	14005.8	13989.6	13930.3
9840.9	27.5°	9997.2	10307.0	10614.1	11228.3	12114.6	12626.5	12561.8	12543.0	12521.4
8515.5	30°	8596.4	8987.0	9275.2	9657.8	10452.5	11144.8	11212.2	11179.8	11128.7
7419.1	32.5°	7486.4	7718.1	8084.5	8343.1	8914.2	9698.2	9956.8	9932.5	9886.7
6430.4	35°	6522.0	6613.6	6901.9	7190.1	7570.0	8329.7	8712.2	8658.3	8650.2
5239.7	37.5°	5371.7	5678.8	5837.8	6128.7	6395.4	6985.4	7513.4	7489.1	7491.8
4213.3	40°	4337.2	4515.0	4830.2	5075.4	5320.5	5751.6	6338.8	6355.0	6349.6
3262.4	42.5°	3329.7	3502.1	3833.5	4100.2	4318.4	4585.1	5145.4	5164.3	5188.5
2540.4	45°	2599.6	2710.1	2952.6	3230.0	3461.7	3623.3	4049.0	4170.2	4172.9
1969.3	47.5°	2017.8	2144.4	2316.8	2583.5	2809.8	2925.6	3235.4	3399.7	3391.7
1511.3	50°	1584.0	1699.9	1840.0	2050.1	2295.2	2386.8	2615.8	2777.4	2769.4
1139.5	52.5°	1212.3	1360.4	1484.4	1646.0	1885.8	1963.9	2128.2	2314.1	2287.2
835.1	55°	918.6	1069.5	1185.3	1320.0	1538.2	1637.9	1751.1	1899.2	1904.6
646.5	57.5°	692.3	848.6	953.7	1091.0	1255.4	1365.8	1452.0	1611.0	1608.3
441.8	60°	495.7	630.4	757.0	899.8	1026.4	1153.0	1212.3	1363.1	1368.5
312.5	62.5°	358.3	484.9	606.1	730.1	843.2	967.1	1021.0	1139.5	1155.7
204.7	65°	250.5	339.4	479.5	573.8	700.4	792.0	862.1	964.4	983.3
121.2	67.5°	161.6	245.1	379.8	463.4	579.2	657.3	730.1	810.9	835.1
78.1	70°	97.0	185.9	282.9	371.8	476.8	546.9	616.9	687.0	700.4
37.7	72.5°	62.0	129.3	204.7	301.7	382.5	458.0	519.9	571.1	530.7
24.2	75°	35.0	88.9	161.6	237.1	309.8	382.5	433.7	460.7	369.1
16.2	77.5°	21.6	64.7	132.0	191.3	239.8	307.1	339.4	355.6	264.0
10.8	80°	13.5	48.5	110.5	156.2	156.2	226.3	264.0	277.5	191.3
8.1	82.5°	10.8	35.0	86.2	118.5	105.1	169.7	207.4	210.1	134.7
5.4	85°	8.1	26.9	53.9	78.1	72.7	118.5	121.2	134.7	88.9
5.4	87.5°	5.4	16.2	32.3	45.8	40.4	56.6	64.7	72.7	48.5
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
25056.3
24320.9
23914.1
23318.7
22203.4
21004.6
19614.6
18224.5
16694.3
15218.0
13731.0
12394.8
11064.0
9765.5
8561.3
7405.6
6255.3
5107.7
4102.9
3362.0
2769.4
2289.8
1904.6
1602.9
1355.0
1150.3
977.9
832.4
689.6
493.0
350.2
247.8
177.8
123.9
80.8
43.1
0.0

(END OF REPORT)