

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: P636620

Luminaire Tested: **IFLD-L-SA8D-930-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636620
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8D-930-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (128) 3000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28407.6 lumens
Efficiency: N/A
Efficacy: 58.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B5 - U0 - G1

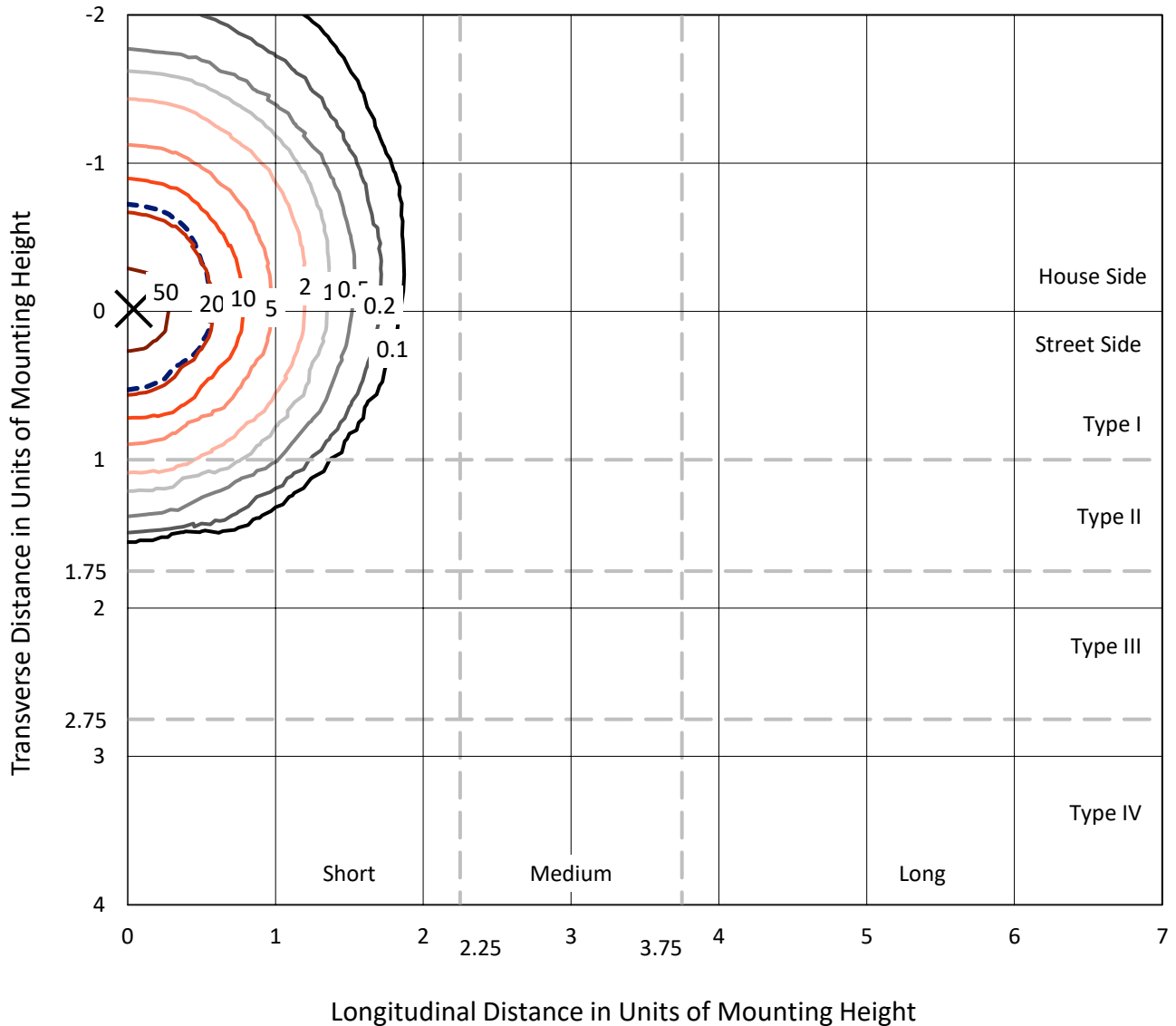
Input Watts (W): 488.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

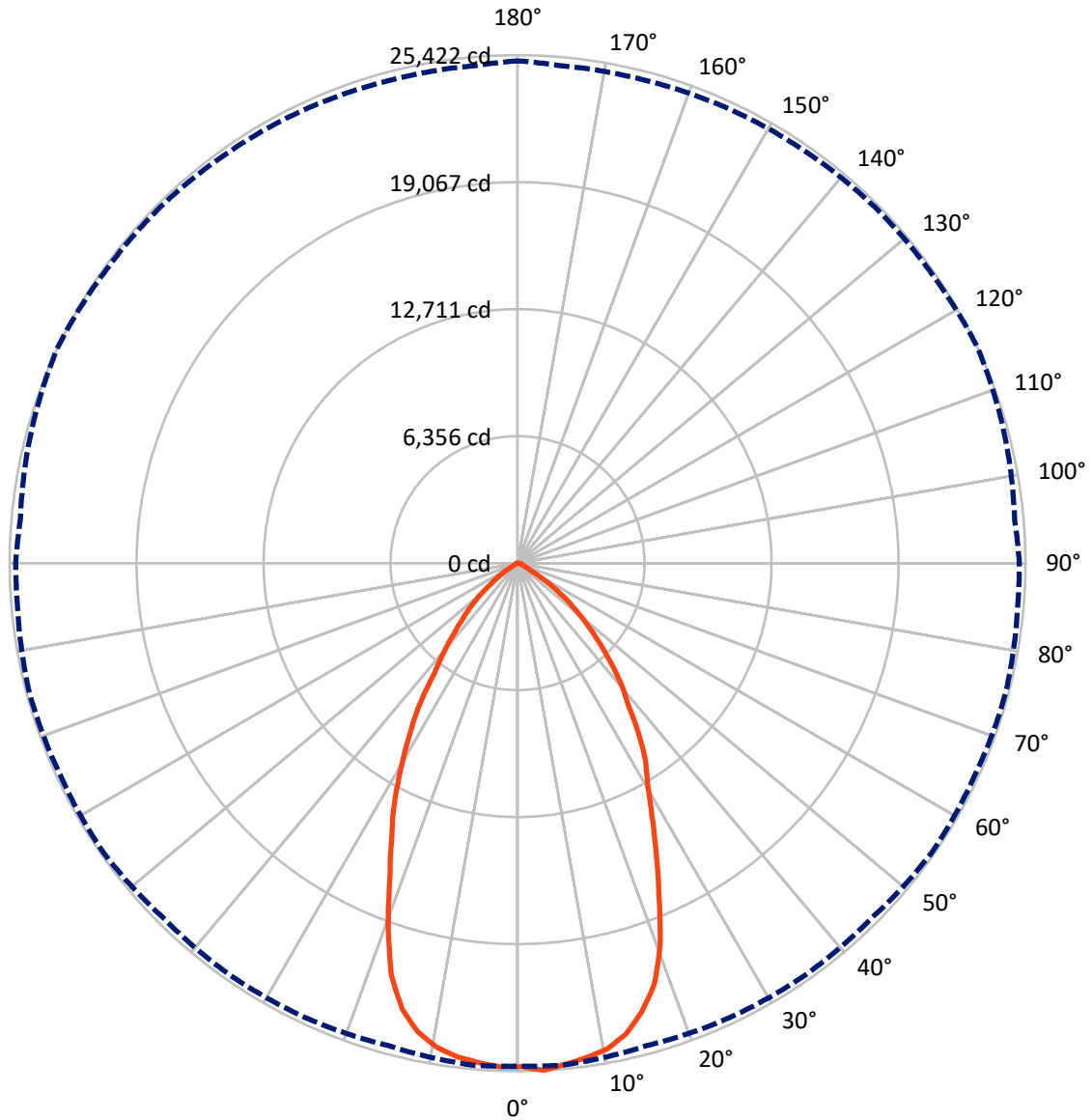
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 63 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 115-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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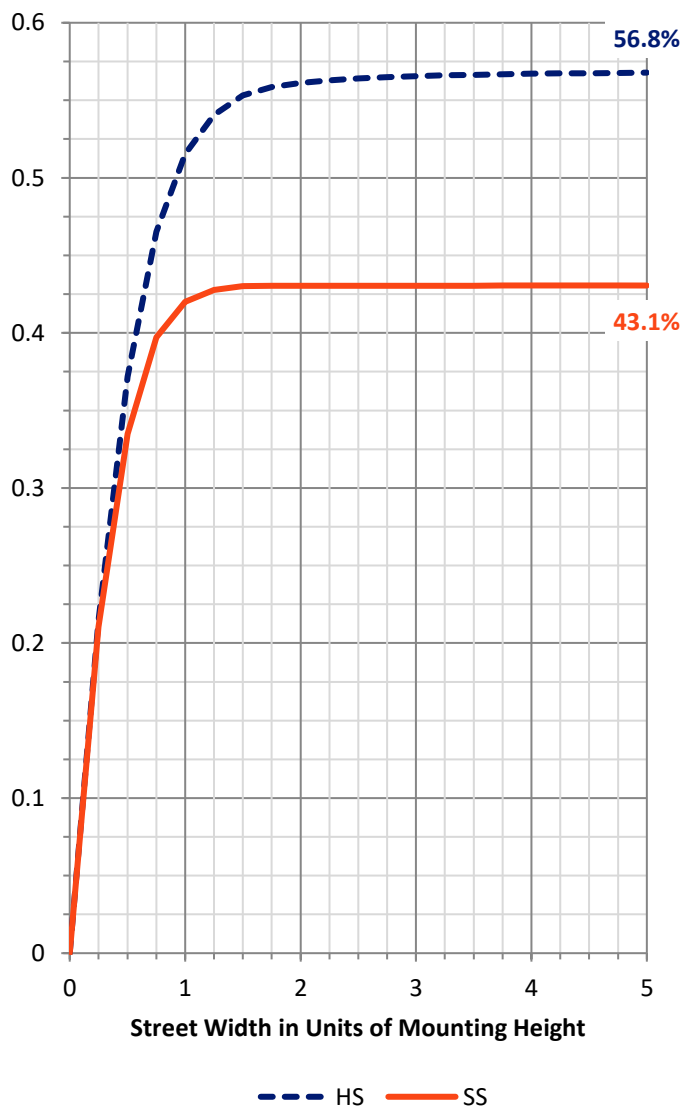
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16257.3	0.0	16257.3
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	12150.3	0.0	12150.3
	% Fixture	42.8	0.0	42.8
Total	Lumens	28407.6	0.0	28407.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2374.0	8.4
10°-20°	6294.5	22.2
20°-30°	7199.7	25.3
30°-40°	6169.9	21.7
40°-50°	4079.8	14.4
50°-60°	1780.2	6.3
60°-70°	349.8	1.2
70°-80°	126.2	0.4
80°-90°	33.6	0.1
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°	28407.6	100.0
0°-180°	28407.6	100.0



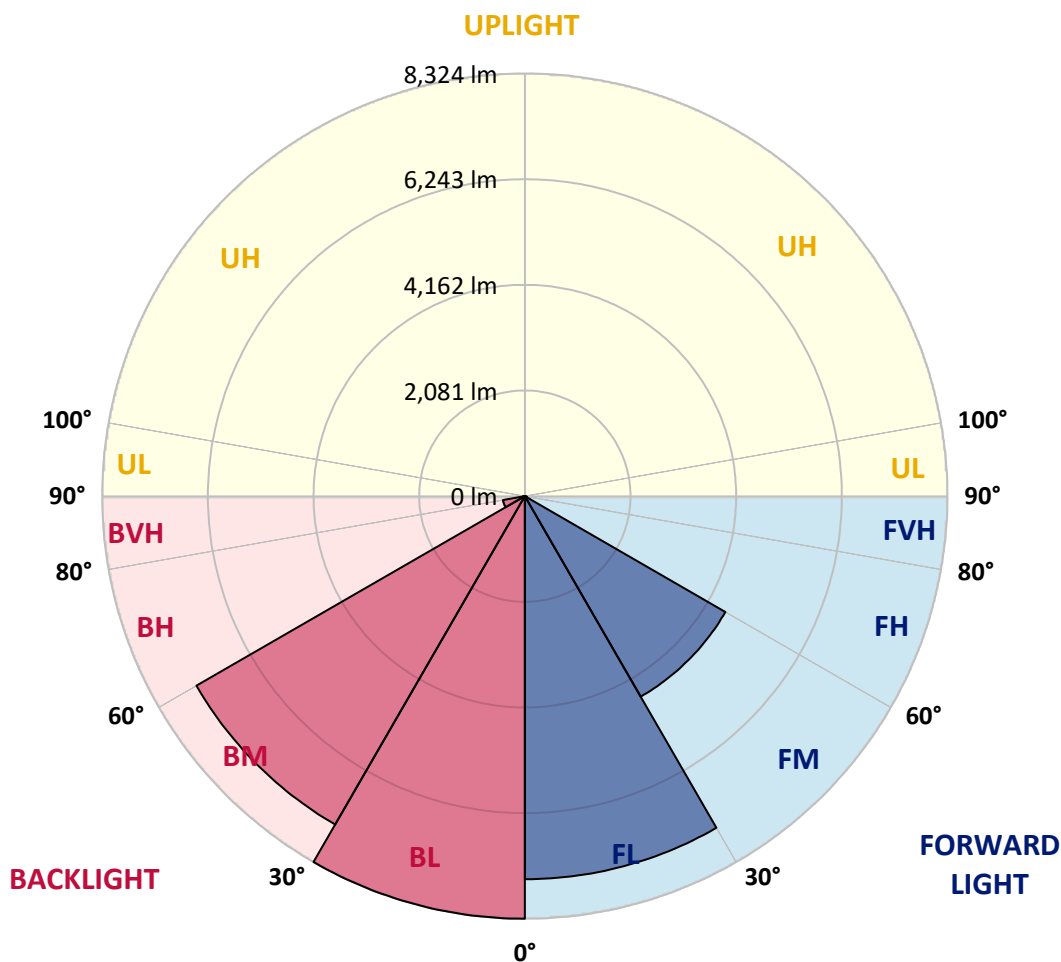
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7544.5	26.6			
FM (30°-60°)	4561.6	16.1			
FH (60°-80°)	38.6	0.1			G0/660
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	8323.7	29.3	B5		
BM (30°-60°)	7468.2	26.3	B4/8500		
BH (60°-80°)	437.3	1.5	B1/500		G1/500
BVH (80°-90°)	28.0	0.1			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°	25204.7	25204.7	25204.7	25204.7	25204.7	25204.7	25204.7	25204.7	25204.7	25204.7
2.5°	25168.5	25228.8	24999.4	25102.0	25144.3	25090.0	25289.2	25228.8	25277.1	25126.2
5°	25168.5	25228.8	24963.1	25011.5	25023.5	24920.9	25138.3	25065.8	25071.8	24914.8
7.5°	25011.5	25083.9	24842.4	24878.6	24884.6	24800.1	24987.3	24884.6	24848.4	24685.4
10°	24588.8	24631.0	24413.6	24504.2	24588.8	24510.3	24673.3	24558.6	24558.6	24413.6
12.5°	23918.5	23997.0	23755.4	23864.1	23936.6	23846.0	24033.2	23990.9	23997.0	23852.1
15°	22698.7	22427.0	22716.8	22934.2	22940.2	22922.1	23097.2	23055.0	23085.2	22867.8
17.5°	16768.9	16702.5	17040.6	19607.0	21515.2	21774.8	21805.0	21575.5	21472.9	21261.5
20°	15537.1	15585.4	15512.9	15525.0	17028.6	20150.5	19963.3	19395.6	19136.0	18924.6
22.5°	14637.3	14558.8	14510.5	14480.3	14522.6	16557.6	17904.1	17046.7	16907.8	16805.1
25°	13659.1	13622.8	13562.5	13550.4	13526.2	13182.0	15120.4	15198.9	14975.5	14848.7
27.5°	12747.3	12723.1	12656.7	12650.6	12372.9	11539.6	11750.9	13616.8	13556.4	13508.1
30°	11775.1	11726.8	11690.5	11690.5	10851.2	9993.7	9649.5	11871.7	11871.7	11829.4
32.5°	10718.3	10676.1	10688.1	10543.2	9540.8	8755.8	8212.4	10247.3	10881.4	10845.1
35°	6551.8	6539.7	7765.5	9377.8	8200.3	7487.7	7451.5	8767.9	9691.8	9788.4
37.5°	5833.2	5797.0	5815.1	5917.7	7022.8	6739.0	6726.9	6950.3	8248.6	8296.9
40°	5235.4	5211.2	5193.1	4824.8	4474.5	6014.3	5972.1	5827.1	7046.9	7131.5
42.5°	4667.8	4643.6	4643.6	4124.3	3556.7	4945.5	4963.6	4794.6	5941.9	5972.1
45°	4082.0	4063.9	3961.3	3291.0	3127.9	3284.9	4112.2	3919.0	4716.1	5030.1
47.5°	1926.3	1914.2	2771.7	2735.4	2723.4	2626.7	3140.0	3248.7	3743.9	4057.9
50°	1545.9	1533.8	1461.3	1286.2	2240.3	1992.7	2264.4	2499.9	2656.9	2946.8
52.5°	1280.2	1268.1	1117.1	990.3	1243.9	1455.3	1352.6	1672.7	1666.6	1980.6
55°	839.4	779.0	857.5	809.2	652.2	1056.7	1032.6	1268.1	1237.9	1509.6
57.5°	18.1	18.1	42.3	458.9	410.6	446.8	591.8	724.6	815.2	893.7
60°	6.0	6.0	12.1	24.2	169.1	187.2	229.5	265.7	374.4	465.0
62.5°	0.0	0.0	6.0	12.1	24.2	96.6	108.7	126.8	175.1	241.5
65°	0.0	0.0	0.0	6.0	12.1	24.2	36.2	78.5	108.7	138.9
67.5°	0.0	0.0	0.0	6.0	6.0	12.1	24.2	36.2	48.3	96.6
70°	0.0	0.0	0.0	6.0	6.0	12.1	18.1	24.2	36.2	48.3
72.5°	0.0	0.0	0.0	6.0	6.0	18.1	12.1	18.1	24.2	30.2
75°	0.0	0.0	0.0	6.0	6.0	6.0	12.1	18.1	18.1	24.2
77.5°	0.0	0.0	0.0	6.0	12.1	12.1	12.1	12.1	12.1	18.1
80°	0.0	0.0	0.0	6.0	6.0	12.1	18.1	24.2	12.1	12.1
82.5°	0.0	0.0	0.0	12.1	6.0	24.2	36.2	30.2	12.1	6.0
85°	0.0	0.0	0.0	6.0	24.2	30.2	30.2	18.1	6.0	6.0
87.5°	0.0	0.0	0.0	6.0	6.0	12.1	18.1	18.1	6.0	6.0
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°
25204.7	0°	25204.7	25204.7	25204.7	25204.7	25204.7	25204.7	25204.7	25204.7	25204.7
25114.1	2.5°	24975.2	25210.7	25422.1	25289.2	25240.9	25144.3	25071.8	24993.3	24987.3
24896.7	5°	24757.8	24981.3	25186.6	25029.6	25041.6	24993.3	24945.0	24926.9	24939.0
24673.3	7.5°	24570.6	24757.8	24981.3	24848.4	24884.6	24854.4	24830.3	24794.1	24848.4
24383.4	10°	24286.8	24455.9	24715.6	24588.8	24570.6	24540.4	24516.3	24449.9	24480.1
23858.1	12.5°	23664.9	23876.2	24172.1	24027.2	24075.5	23990.9	23954.7	23912.4	23918.5
22946.3	15°	22819.5	22982.5	23284.4	23169.7	23205.9	23151.6	23151.6	23151.6	23193.9
21291.7	17.5°	21346.1	21678.2	22155.2	22010.3	22064.7	22076.7	22064.7	22106.9	22161.3
18936.7	20°	18948.8	19516.4	20386.0	20669.8	20784.5	20790.5	20706.0	20808.7	20917.3
16732.7	22.5°	16744.7	17342.6	18109.4	18888.4	19371.5	19347.3	19359.4	19425.8	19540.6
14770.2	25°	14836.6	15410.2	16104.7	16799.1	17855.8	18073.2	18079.3	18139.6	18230.2
13429.6	27.5°	13459.8	13683.2	14317.3	15017.7	16153.0	16847.4	16811.2	16865.5	16962.1
11750.9	30°	11799.2	12656.7	12801.6	13230.3	14208.6	15482.7	15488.7	15549.1	15645.7
10760.6	32.5°	10730.4	11298.0	11744.9	11757.0	12590.3	13900.6	14160.3	14220.7	14287.1
9734.1	35°	9728.0	9794.4	10398.3	10567.4	11050.4	12348.7	12807.6	12843.9	12952.6
8278.8	37.5°	8417.7	8810.2	8979.2	9583.1	9607.2	10657.9	11569.8	11533.5	11618.1
7125.4	40°	7216.0	7590.4	8019.1	8459.9	8520.3	9305.3	10313.8	10350.0	10386.2
5911.7	42.5°	5960.0	6437.0	6877.8	7173.7	7584.4	8037.2	8997.4	9166.4	9251.0
5066.3	45°	5156.9	5289.7	5815.1	6249.8	6666.5	6877.8	7777.6	8085.5	8139.9
4009.6	47.5°	4063.9	4510.8	4867.0	5235.4	5754.7	5941.9	6594.0	7022.8	7065.0
2977.0	50°	3140.0	3460.1	3949.2	4281.3	4885.1	4987.8	5434.6	5990.2	6044.5
1992.7	52.5°	2246.3	2681.1	3158.1	3478.2	4057.9	4190.7	4522.8	5054.2	5090.5
1527.7	55°	1612.3	1896.1	2288.6	2747.5	3170.2	3466.1	3695.6	4202.8	4251.1
1002.4	57.5°	1099.0	1364.7	1527.7	1986.7	2240.3	2560.3	2747.5	3134.0	3170.2
477.0	60°	525.3	652.2	779.0	1008.4	1171.5	1443.2	1564.0	1721.0	1763.2
289.8	62.5°	338.2	398.5	507.2	603.8	760.9	929.9	978.2	1111.1	1159.4
181.2	65°	223.4	283.8	398.5	422.7	579.7	712.5	772.9	869.5	923.9
108.7	67.5°	126.8	199.3	295.9	350.2	458.9	585.7	652.2	736.7	785.0
72.5	70°	84.5	163.0	235.5	289.8	362.3	471.0	555.5	628.0	658.2
36.2	72.5°	48.3	102.7	163.0	229.5	289.8	392.5	471.0	531.4	350.2
24.2	75°	30.2	78.5	138.9	193.2	241.5	314.0	380.4	374.4	157.0
18.1	77.5°	24.2	60.4	120.8	163.0	199.3	217.4	271.7	308.0	120.8
12.1	80°	18.1	48.3	108.7	138.9	78.5	157.0	211.3	229.5	84.5
12.1	82.5°	12.1	30.2	90.6	96.6	54.3	114.7	169.1	151.0	60.4
6.0	85°	6.0	18.1	30.2	54.3	48.3	54.3	42.3	60.4	42.3
6.0	87.5°	6.0	12.1	24.2	24.2	24.2	18.1	24.2	24.2	24.2
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
25204.7
25132.2
25090.0
24999.4
24625.0
24093.6
23212.0
22342.4
20989.8
19558.7
18387.2
17052.7
15814.8
14438.0
13067.3
11720.7
10500.9
9371.7
8272.7
7167.7
6123.0
5156.9
4293.4
3242.7
1811.5
1171.5
923.9
779.0
652.2
283.8
157.0
120.8
90.6
60.4
42.3
24.2
0.0

(END OF REPORT)