

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: P638275

Luminaire Tested: **IFLD-S-SA2B-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638275
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-830-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6978.5 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

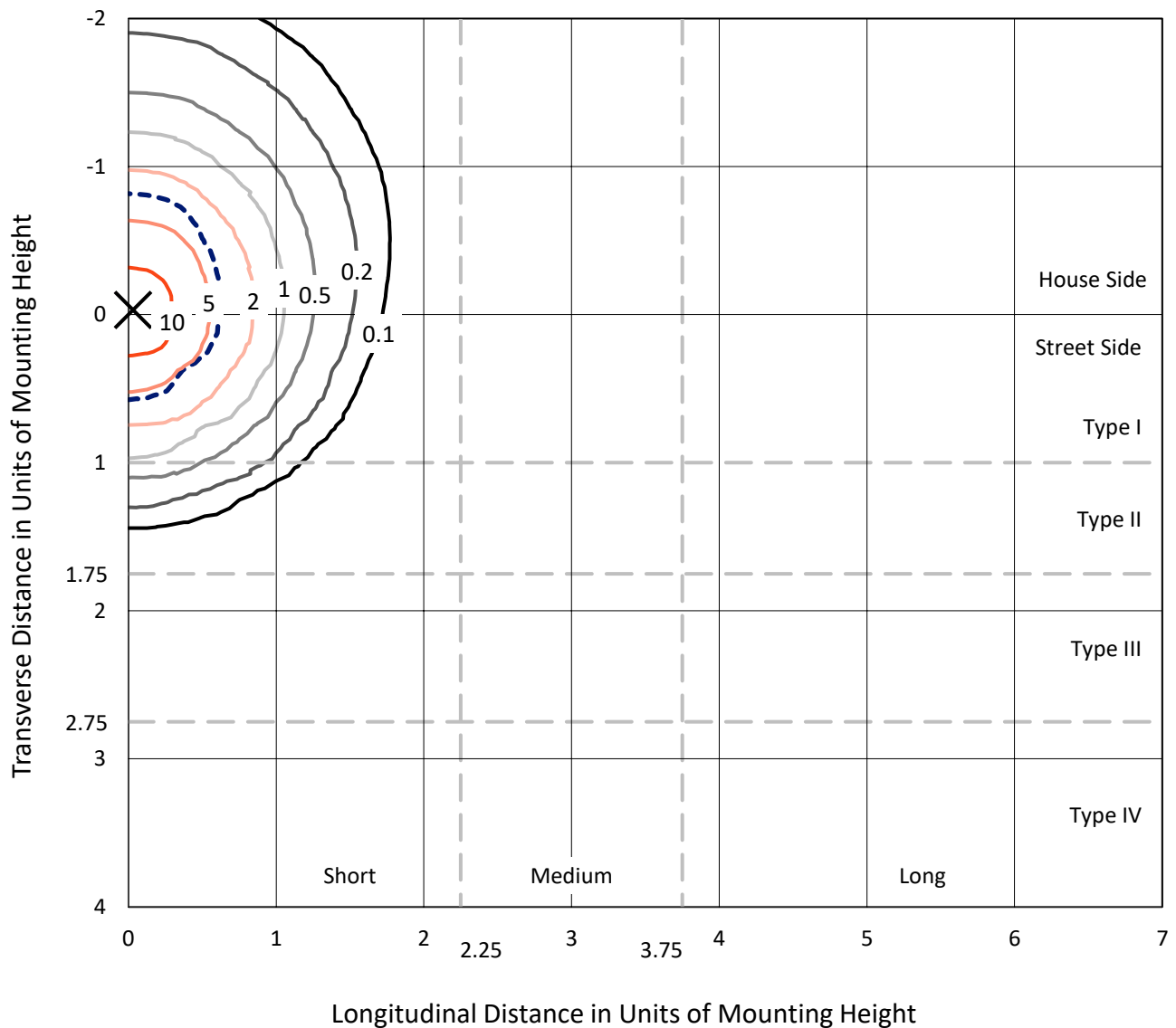
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

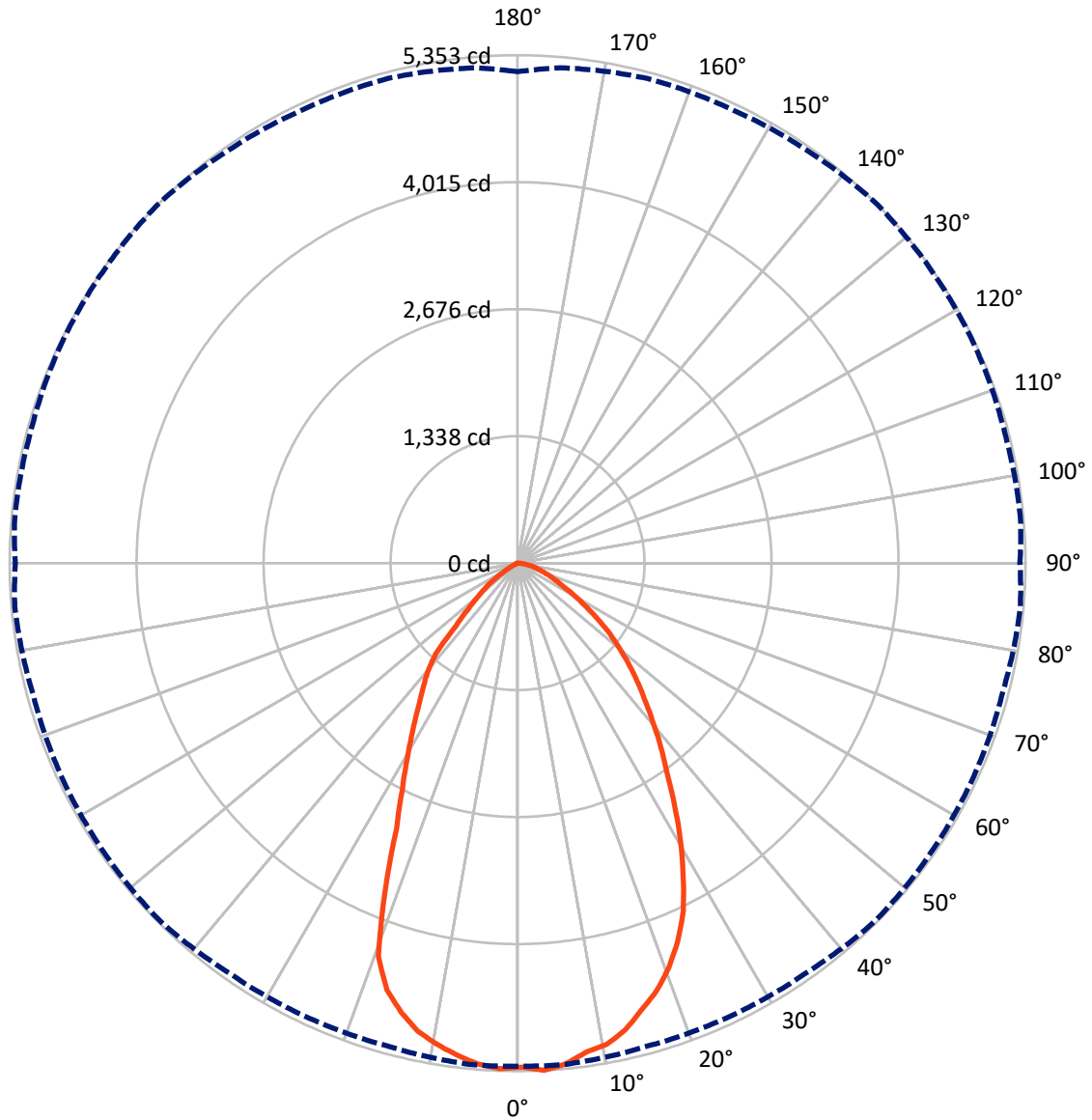
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.3 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 135-Deg Lateral - - - Horizontal Cone Through 2.5-Deg Vertical

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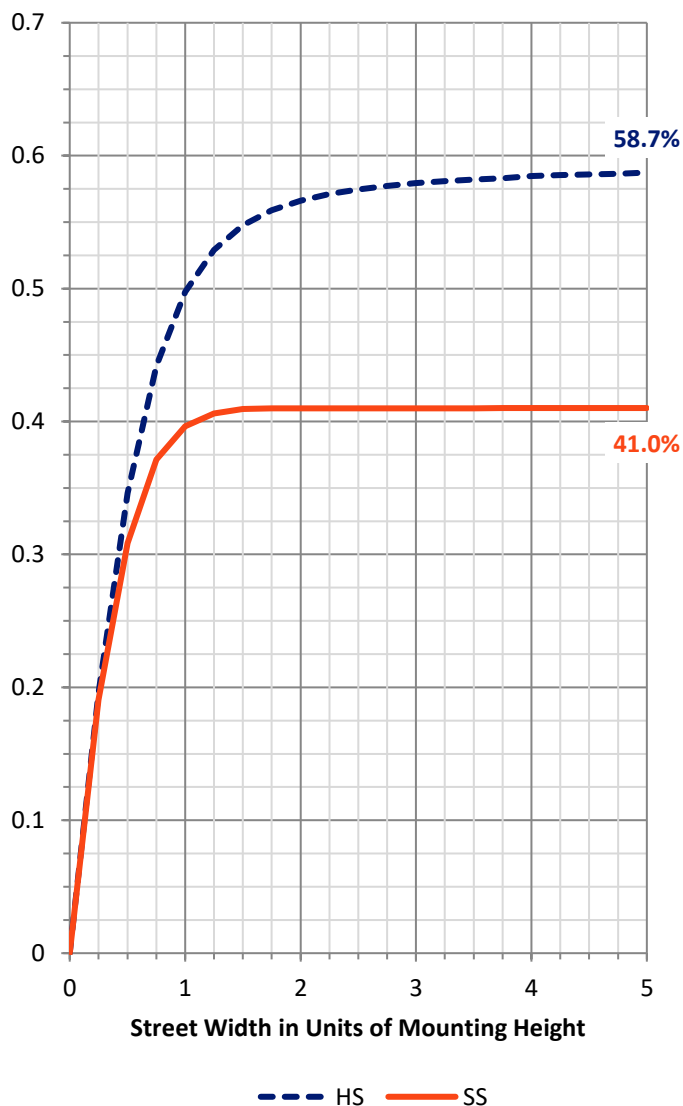
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4133.0	0.0	4133.0
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2845.5	0.0	2845.5
	% Fixture	40.8	0.0	40.8
Total	Lumens	6978.5	0.0	6978.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	498.0	7.1
10°-20°	1335.6	19.1
20°-30°	1628.8	23.3
30°-40°	1487.1	21.3
40°-50°	1074.7	15.4
50°-60°	586.8	8.4
60°-70°	242.6	3.5
70°-80°	98.3	1.4
80°-90°	26.7	0.4
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°	6978.5	100.0
0°-180°	6978.5	100.0



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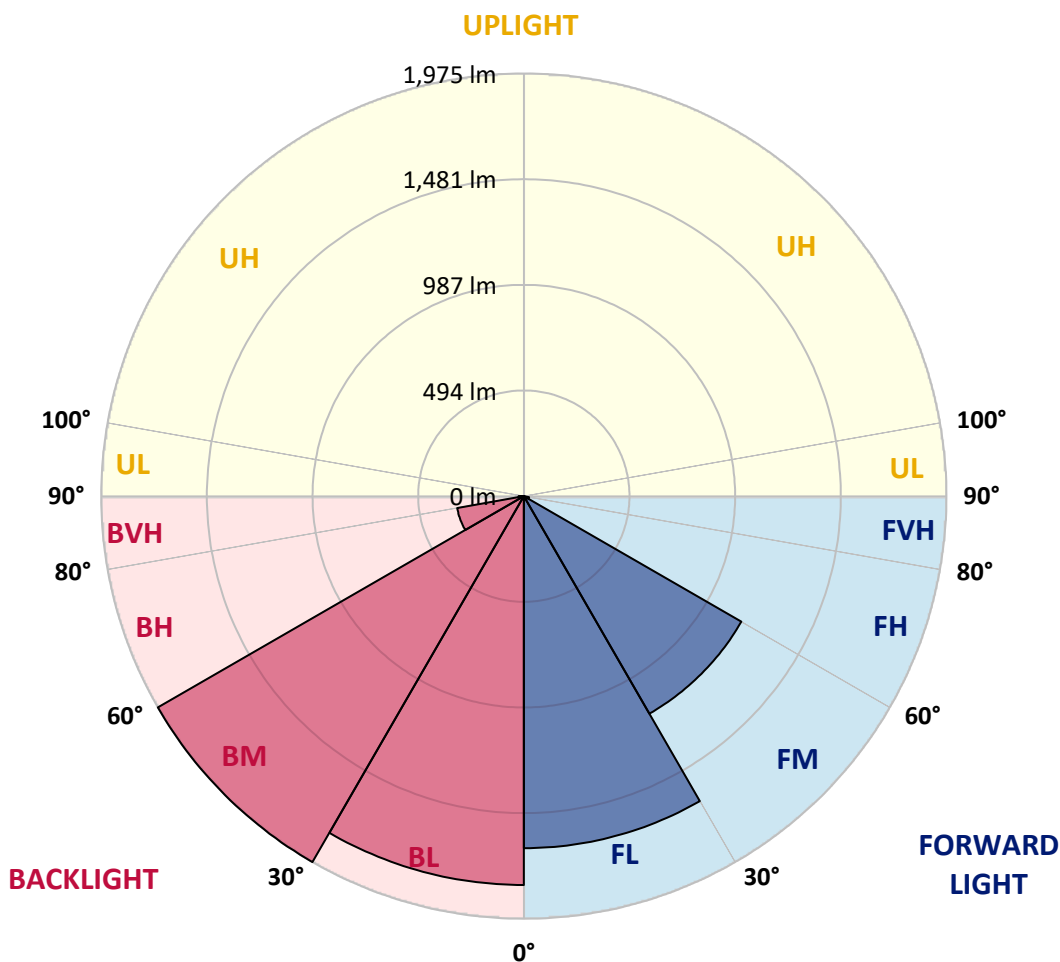
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1645.1	23.6			
FM (30°-60°)	1173.7	16.8			
FH (60°-80°)	24.6	0.4			G0/660
FVH (80°-90°)	2.1	0.0			G0/10
BL (0°-30°)	1817.3	26.0	B3/2500		
BM (30°-60°)	1974.8	28.3	B2/2500		
BH (60°-80°)	316.3	4.5	B1/500		G1/500
BVH (80°-90°)	24.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	5310.6	5310.6	5310.6	5310.6	5310.6	5310.6	5310.6	5310.6	5310.6	5310.6
2.5°	5300.8	5307.6	5270.3	5274.2	5281.1	5331.2	5318.5	5306.7	5290.0	5318.5
5°	5293.9	5297.8	5258.5	5244.8	5250.6	5295.9	5254.6	5254.6	5250.6	5245.7
7.5°	5240.8	5242.8	5212.3	5187.8	5203.5	5224.1	5193.7	5208.4	5186.8	5203.5
10°	5161.2	5148.4	5112.1	5105.2	5122.9	5142.6	5121.9	5135.7	5116.0	5128.8
12.5°	5044.3	5024.6	4995.1	4986.3	5016.8	5043.3	5026.6	5018.7	4993.2	5024.6
15°	4593.2	4578.5	4645.3	4762.2	4867.4	4890.0	4872.3	4880.2	4827.1	4835.9
17.5°	3780.5	3753.0	3824.7	4101.9	4496.9	4705.2	4689.5	4638.4	4559.8	4577.5
20°	3435.6	3427.7	3419.8	3485.7	3761.8	4393.7	4415.3	4285.6	4173.6	4149.0
22.5°	3241.0	3238.0	3230.2	3244.9	3317.6	3723.5	3971.2	3851.3	3776.6	3769.7
25°	3063.1	3058.2	3034.6	3053.3	3053.3	3076.9	3394.3	3467.0	3401.2	3393.3
27.5°	2882.3	2873.5	2869.5	2878.4	2833.2	2674.0	2754.6	3109.3	3074.9	3076.9
30°	2686.7	2683.8	2673.0	2691.7	2552.1	2354.6	2303.5	2785.0	2791.9	2789.9
32.5°	2395.9	2408.6	2457.8	2478.4	2248.5	2085.3	1999.8	2409.6	2550.1	2547.2
35°	1740.4	1740.4	1900.6	2198.3	1970.3	1847.5	1801.3	2043.1	2311.3	2321.2
37.5°	1430.8	1435.7	1467.2	1602.8	1700.1	1656.9	1643.1	1719.8	2004.7	2020.5
40°	1287.4	1287.4	1287.4	1231.3	1228.4	1492.7	1484.9	1460.3	1731.5	1765.9
42.5°	1156.7	1159.6	1161.6	1020.1	941.4	1290.3	1272.6	1235.3	1486.8	1527.1
45°	1022.0	1026.9	1032.8	853.0	818.6	928.7	1077.1	1035.8	1245.1	1297.2
47.5°	624.0	631.9	765.5	723.3	727.2	716.4	878.5	871.7	1021.0	1094.7
50°	421.6	424.5	437.3	458.9	624.0	563.1	622.1	721.3	775.4	887.4
52.5°	353.8	358.7	327.2	297.8	409.8	440.3	434.4	535.6	557.2	695.8
55°	248.6	264.4	249.6	246.7	232.9	342.0	329.2	411.8	425.5	528.7
57.5°	25.6	29.5	51.1	183.8	152.3	193.6	234.9	301.7	315.5	390.1
60°	2.0	2.0	4.9	25.6	111.0	116.0	162.1	185.7	212.3	272.2
62.5°	0.0	1.0	2.0	3.9	17.7	61.9	81.6	97.3	127.8	175.9
65°	0.0	0.0	1.0	2.9	3.9	23.6	31.4	51.1	69.8	109.1
67.5°	0.0	0.0	1.0	2.0	2.9	5.9	10.8	18.7	37.3	61.9
70°	0.0	0.0	1.0	2.0	2.9	4.9	7.9	11.8	16.7	33.4
72.5°	0.0	0.0	1.0	1.0	2.0	4.9	5.9	7.9	11.8	16.7
75°	0.0	0.0	1.0	1.0	2.9	5.9	4.9	5.9	7.9	10.8
77.5°	0.0	0.0	1.0	2.0	2.9	5.9	4.9	5.9	5.9	6.9
80°	0.0	0.0	1.0	2.0	3.9	6.9	5.9	5.9	4.9	4.9
82.5°	0.0	0.0	1.0	2.9	3.9	8.8	8.8	7.9	3.9	2.9
85°	0.0	0.0	2.0	3.9	5.9	9.8	9.8	7.9	2.9	2.0
87.5°	0.0	0.0	2.0	2.9	4.9	6.9	9.8	7.9	2.9	1.0
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°
5310.6	0°	5310.6	5310.6	5310.6	5310.6	5310.6	5310.6	5310.6	5310.6	5310.6
5293.9	2.5°	5320.4	5314.5	5334.2	5342.0	5352.9	5311.6	5286.0	5287.0	5239.8
5233.9	5°	5265.4	5266.4	5291.9	5290.0	5300.8	5278.2	5268.3	5251.6	5210.4
5158.3	7.5°	5195.6	5186.8	5211.3	5230.0	5202.5	5218.2	5195.6	5203.5	5178.9
5091.4	10°	5141.6	5120.9	5143.5	5156.3	5157.3	5141.6	5119.9	5099.3	5090.5
4987.3	12.5°	5021.7	4995.1	5033.5	5051.2	5048.2	5017.7	4993.2	4998.1	4969.6
4804.5	15°	4856.6	4857.6	4885.1	4901.8	4886.1	4879.2	4881.1	4869.4	4844.8
4551.9	17.5°	4604.0	4618.8	4691.5	4731.8	4740.6	4726.9	4720.0	4706.2	4681.7
4149.0	20°	4183.4	4271.9	4401.6	4526.4	4551.0	4547.0	4522.5	4516.6	4502.8
3750.0	22.5°	3813.9	3879.8	4030.1	4224.7	4324.9	4334.8	4305.3	4296.4	4281.7
3393.3	25°	3431.6	3502.4	3638.0	3849.3	4056.6	4098.9	4094.0	4067.5	4051.7
3076.9	27.5°	3109.3	3180.1	3302.9	3493.6	3715.6	3851.3	3864.0	3821.8	3820.8
2794.8	30°	2818.4	2915.7	3009.1	3164.3	3379.6	3583.0	3604.6	3575.1	3578.1
2536.4	32.5°	2590.4	2671.0	2750.6	2854.8	3033.6	3270.5	3355.0	3327.5	3316.7
2321.2	35°	2357.5	2412.6	2494.1	2589.5	2711.3	2946.2	3092.6	3072.0	3061.2
2030.3	37.5°	2092.2	2186.5	2245.5	2352.6	2447.9	2634.7	2841.0	2838.1	2815.5
1782.6	40°	1820.0	1919.2	2008.7	2116.8	2190.5	2338.9	2567.8	2566.9	2569.8
1526.2	42.5°	1573.3	1664.7	1772.8	1890.7	1961.5	2069.6	2315.3	2329.0	2345.7
1314.9	45°	1350.3	1432.8	1533.0	1676.5	1762.0	1823.9	2042.1	2105.0	2104.0
1126.2	47.5°	1149.8	1227.4	1311.9	1451.5	1560.6	1616.6	1797.4	1886.8	1880.9
923.8	50°	965.0	1033.8	1122.3	1223.5	1369.9	1419.0	1553.7	1671.6	1662.8
736.1	52.5°	776.3	871.7	946.4	1038.7	1193.0	1241.2	1345.3	1460.3	1453.4
552.3	55°	605.4	697.7	788.1	867.7	997.5	1069.2	1143.9	1261.8	1259.8
432.4	57.5°	457.9	559.2	644.7	720.3	823.5	912.0	971.9	1079.0	1092.8
295.8	60°	339.0	416.7	509.0	593.6	675.1	766.5	806.8	912.0	917.9
202.4	62.5°	230.9	316.4	406.8	483.5	544.4	638.8	675.1	761.6	772.4
129.7	65°	160.2	215.2	318.4	373.4	448.1	528.7	565.1	633.9	655.5
74.7	67.5°	106.1	153.3	248.6	298.7	372.4	427.5	473.7	529.7	553.3
47.2	70°	58.0	113.0	177.9	235.9	299.7	352.8	398.0	443.2	463.8
21.6	72.5°	39.3	75.7	123.8	186.7	241.7	293.8	334.1	367.5	368.5
12.8	75°	19.7	51.1	94.3	144.5	188.7	239.8	276.1	295.8	272.2
7.9	77.5°	11.8	37.3	76.7	116.0	153.3	193.6	214.2	225.0	186.7
5.9	80°	6.9	26.5	59.9	92.4	106.1	142.5	162.1	165.1	124.8
3.9	82.5°	4.9	19.7	47.2	67.8	64.9	100.2	121.9	117.9	79.6
2.9	85°	2.9	13.8	29.5	42.3	39.3	65.8	70.8	72.7	46.2
2.0	87.5°	2.0	7.9	15.7	22.6	18.7	28.5	28.5	34.4	22.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
5310.6
5178.9
5200.5
5137.6
5051.2
4945.0
4820.2
4670.8
4471.4
4277.8
4035.0
3818.8
3563.3
3317.6
3046.4
2834.2
2569.8
2336.9
2106.0
1882.9
1670.6
1468.2
1264.8
1086.9
926.7
774.4
650.6
550.3
456.0
359.7
254.5
179.8
116.9
73.7
42.3
19.7
0.0

(END OF REPORT)