

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: P636741

Luminaire Tested: **IFLD-S-SA2E-930-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636741
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-930-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8909.9 lumens
Efficiency: N/A
Efficacy: 57.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

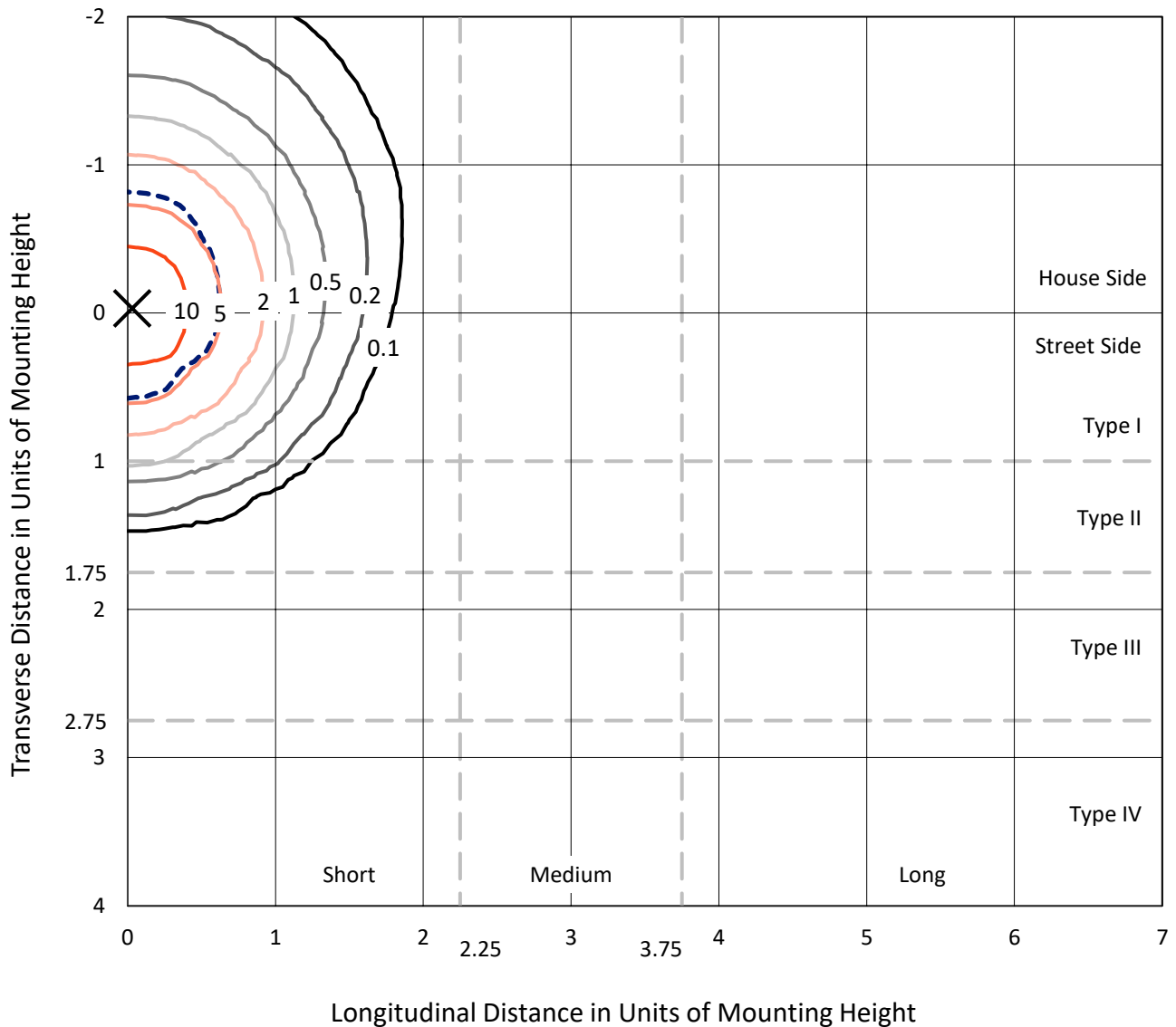
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

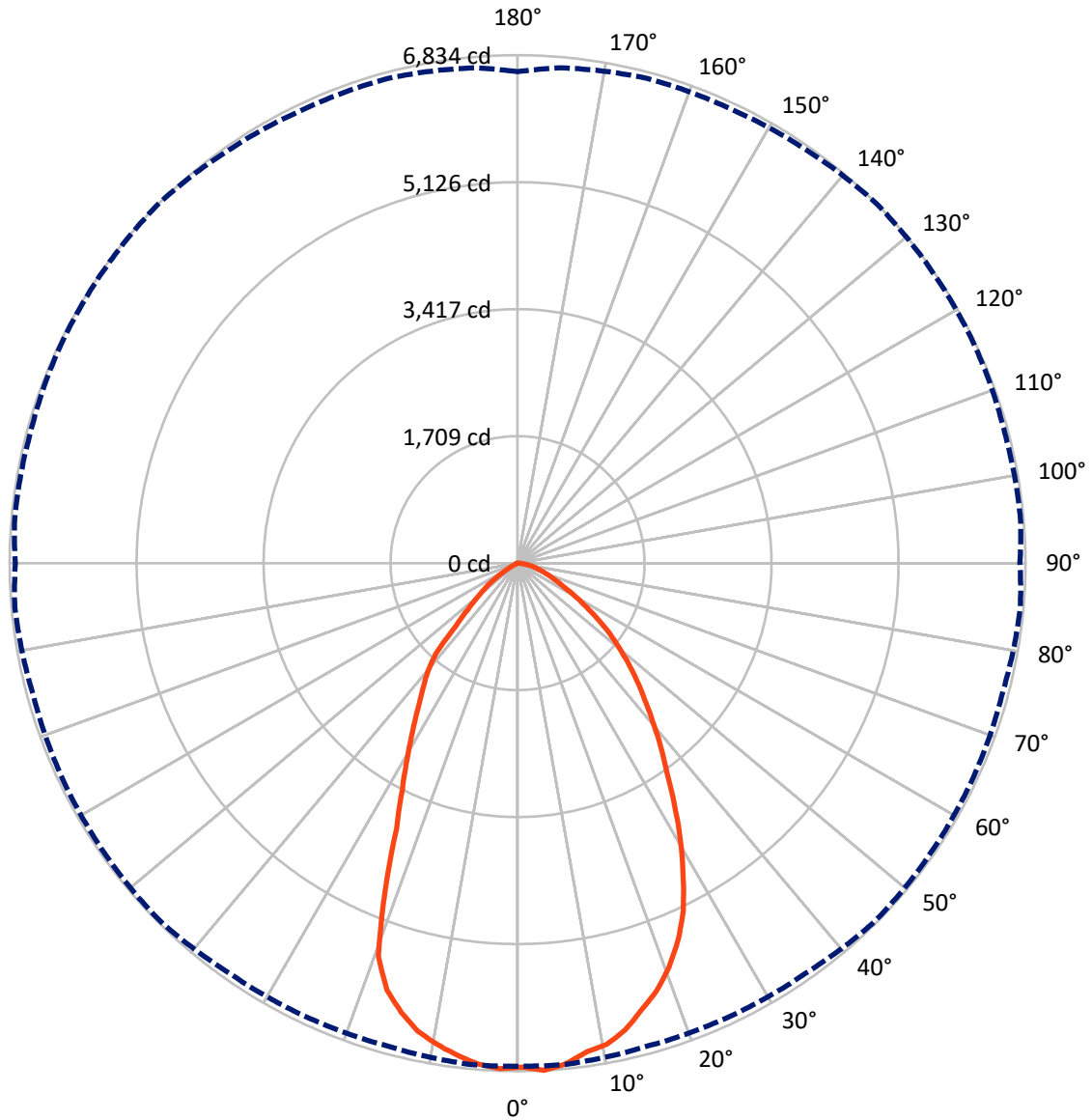
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17 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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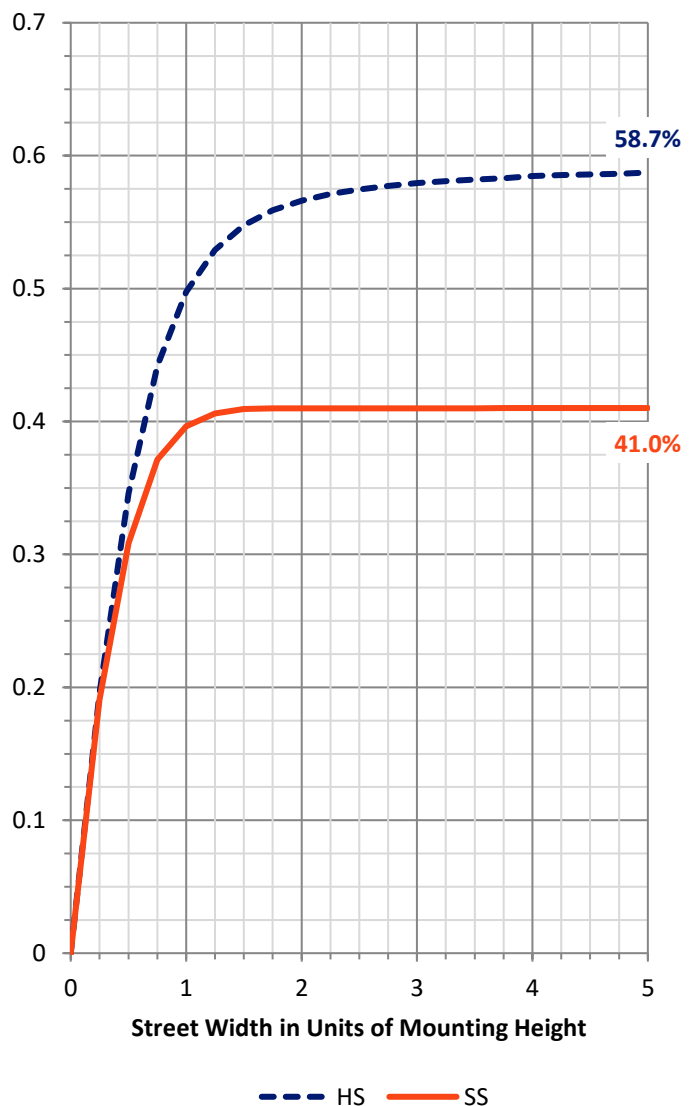
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5276.9	0.0	5276.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3633.0	0.0	3633.0
	% Fixture	40.8	0.0	40.8
Total	Lumens	8909.9	0.0	8909.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	635.9	7.1
10°-20°	1705.2	19.1
20°-30°	2079.6	23.3
30°-40°	1898.6	21.3
40°-50°	1372.1	15.4
50°-60°	749.2	8.4
60°-70°	309.8	3.5
70°-80°	125.5	1.4
80°-90°	34.1	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°	8909.9	100.0
0°-180°	8909.9	100.0



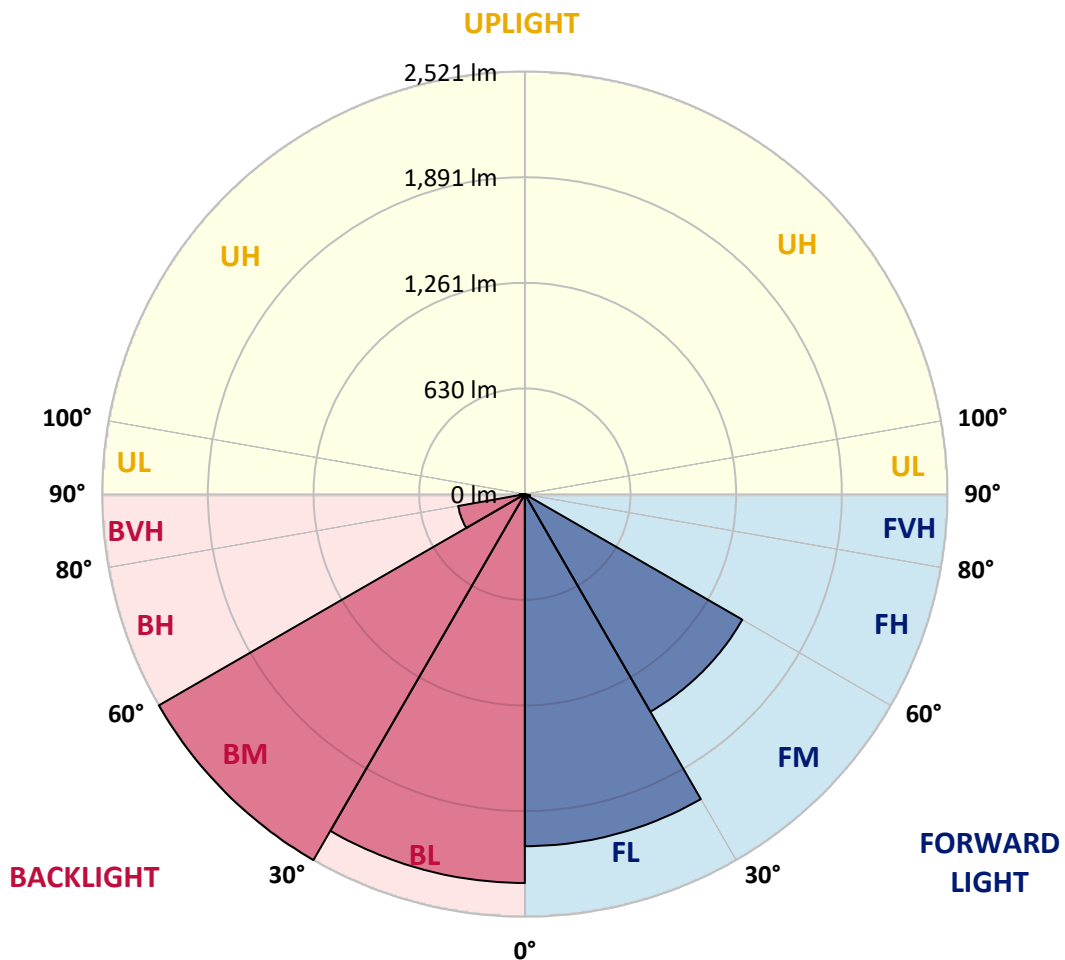
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2100.4	23.6			
FM (30°-60°)	1498.5	16.8			
FH (60°-80°)	31.4	0.4			G0/660
FVH (80°-90°)	2.7	0.0			G0/10
BL (0°-30°)	2320.3	26.0	B3/2500		
BM (30°-60°)	2521.4	28.3	B3/5000		
BH (60°-80°)	403.8	4.5	B1/500		G1/500
BVH (80°-90°)	31.4	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°	6780.4	6780.4	6780.4	6780.4	6780.4	6780.4	6780.4	6780.4	6780.4	6780.4
2.5°	6767.9	6776.7	6729.0	6734.0	6742.8	6806.8	6790.5	6775.4	6754.1	6790.5
5°	6759.1	6764.1	6713.9	6696.4	6703.9	6761.6	6708.9	6708.9	6703.9	6697.6
7.5°	6691.3	6693.8	6655.0	6623.6	6643.7	6670.0	6631.1	6649.9	6622.3	6643.7
10°	6589.7	6573.4	6527.0	6518.2	6540.8	6565.9	6539.5	6557.1	6532.0	6548.3
12.5°	6440.4	6415.3	6377.7	6366.4	6405.3	6439.1	6417.8	6407.8	6375.2	6415.3
15°	5864.5	5845.7	5931.0	6080.3	6214.5	6243.4	6220.8	6230.9	6163.1	6174.4
17.5°	4826.8	4791.7	4883.3	5237.1	5741.5	6007.5	5987.4	5922.2	5821.8	5844.4
20°	4386.4	4376.4	4366.4	4450.4	4803.0	5609.8	5637.4	5471.8	5328.7	5297.4
22.5°	4138.0	4134.2	4124.2	4143.0	4235.9	4754.1	5070.3	4917.2	4821.8	4813.0
25°	3910.9	3904.6	3874.5	3898.4	3898.4	3928.5	4333.7	4426.6	4342.5	4332.5
27.5°	3680.0	3668.8	3663.7	3675.0	3617.3	3414.0	3516.9	3969.9	3926.0	3928.5
30°	3430.4	3426.6	3412.8	3436.6	3258.5	3006.3	2941.0	3555.8	3564.6	3562.1
32.5°	3059.0	3075.3	3138.0	3164.4	2870.8	2662.5	2553.3	3076.5	3256.0	3252.2
35°	2222.1	2222.1	2426.6	2806.8	2515.7	2358.8	2299.9	2608.5	2951.1	2963.6
37.5°	1826.8	1833.1	1873.3	2046.4	2170.6	2115.4	2097.9	2195.7	2559.6	2579.7
40°	1643.7	1643.7	1643.7	1572.1	1568.4	1905.9	1895.9	1864.5	2210.8	2254.7
42.5°	1476.8	1480.6	1483.1	1302.4	1202.0	1647.4	1624.8	1577.2	1898.4	1949.8
45°	1304.9	1311.2	1318.7	1089.1	1045.2	1185.7	1375.2	1322.5	1589.7	1656.2
47.5°	796.7	806.8	977.4	923.5	928.5	914.7	1121.7	1112.9	1303.6	1397.7
50°	538.3	542.0	558.3	585.9	796.7	718.9	794.2	921.0	990.0	1133.0
52.5°	451.7	458.0	417.8	380.2	523.2	562.1	554.6	683.8	711.4	888.3
55°	317.4	337.5	318.7	314.9	297.4	436.6	420.3	525.7	543.3	675.0
57.5°	32.6	37.6	65.2	234.6	194.5	247.2	299.9	385.2	402.8	498.1
60°	2.5	2.5	6.3	32.6	141.8	148.1	207.0	237.1	271.0	347.6
62.5°	0.0	1.3	2.5	5.0	22.6	79.0	104.1	124.2	163.1	224.6
65°	0.0	0.0	1.3	3.8	5.0	30.1	40.2	65.2	89.1	139.3
67.5°	0.0	0.0	1.3	2.5	3.8	7.5	13.8	23.8	47.7	79.0
70°	0.0	0.0	1.3	2.5	3.8	6.3	10.0	15.1	21.3	42.7
72.5°	0.0	0.0	1.3	1.3	2.5	6.3	7.5	10.0	15.1	21.3
75°	0.0	0.0	1.3	1.3	3.8	7.5	6.3	7.5	10.0	13.8
77.5°	0.0	0.0	1.3	2.5	3.8	7.5	6.3	7.5	7.5	8.8
80°	0.0	0.0	1.3	2.5	5.0	8.8	7.5	7.5	6.3	6.3
82.5°	0.0	0.0	1.3	3.8	5.0	11.3	11.3	10.0	5.0	3.8
85°	0.0	0.0	2.5	5.0	7.5	12.5	12.5	10.0	3.8	2.5
87.5°	0.0	0.0	2.5	3.8	6.3	8.8	12.5	10.0	3.8	1.3
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°
6780.4	0°	6780.4	6780.4	6780.4	6780.4	6780.4	6780.4	6780.4	6780.4	6780.4
6759.1	2.5°	6793.0	6785.4	6810.5	6820.6	6834.4	6781.7	6749.1	6750.3	6690.1
6682.6	5°	6722.7	6724.0	6756.6	6754.1	6767.9	6739.0	6726.5	6705.1	6652.4
6585.9	7.5°	6633.6	6622.3	6653.7	6677.5	6642.4	6662.5	6633.6	6643.7	6612.3
6500.6	10°	6564.6	6538.3	6567.1	6583.4	6584.7	6564.6	6537.0	6510.7	6499.4
6367.6	12.5°	6411.5	6377.7	6426.6	6449.2	6445.4	6406.5	6375.2	6381.4	6345.0
6134.2	15°	6200.7	6202.0	6237.1	6258.5	6238.4	6229.6	6232.1	6217.1	6185.7
5811.8	17.5°	5878.3	5897.1	5990.0	6041.4	6052.7	6035.1	6026.3	6008.8	5977.4
5297.4	20°	5341.3	5454.2	5619.8	5779.2	5810.5	5805.5	5774.1	5766.6	5749.1
4788.0	22.5°	4869.5	4953.6	5145.5	5394.0	5522.0	5534.5	5496.9	5485.6	5466.7
4332.5	25°	4381.4	4471.8	4644.9	4914.7	5179.4	5233.4	5227.1	5193.2	5173.1
3928.5	27.5°	3969.9	4060.2	4217.1	4460.5	4744.0	4917.2	4933.5	4879.5	4878.3
3568.4	30°	3598.5	3722.7	3841.9	4040.1	4314.9	4574.7	4602.3	4564.6	4568.4
3238.4	32.5°	3307.4	3410.3	3511.9	3644.9	3873.3	4175.7	4283.6	4248.4	4234.6
2963.6	35°	3010.0	3080.3	3184.4	3306.1	3461.7	3761.6	3948.6	3922.2	3908.4
2592.2	37.5°	2671.3	2791.7	2867.0	3003.8	3125.5	3363.9	3627.3	3623.6	3594.7
2276.0	40°	2323.7	2450.4	2564.6	2702.6	2796.7	2986.2	3278.5	3277.3	3281.1
1948.6	42.5°	2008.8	2125.5	2263.5	2414.1	2504.4	2642.4	2956.1	2973.6	2995.0
1678.8	45°	1724.0	1829.4	1957.3	2140.5	2249.7	2328.7	2607.3	2687.6	2686.3
1437.9	47.5°	1468.0	1567.1	1675.0	1853.2	1992.5	2064.0	2294.9	2409.0	2401.5
1179.4	50°	1232.1	1319.9	1432.9	1562.1	1749.1	1811.8	1983.7	2134.3	2123.0
939.8	52.5°	991.2	1112.9	1208.3	1326.2	1523.2	1584.7	1717.7	1864.5	1855.7
705.1	55°	772.9	890.8	1006.3	1107.9	1273.5	1365.1	1460.5	1611.0	1608.5
552.1	57.5°	584.7	713.9	823.1	919.7	1051.4	1164.4	1240.9	1377.7	1395.2
377.7	60°	432.9	532.0	649.9	757.8	862.0	978.7	1030.1	1164.4	1171.9
258.5	62.5°	294.9	404.0	519.4	617.3	695.1	815.6	862.0	972.4	986.2
165.6	65°	204.5	274.8	406.5	476.8	572.1	675.0	721.5	809.3	836.9
95.4	67.5°	135.5	195.7	317.4	381.4	475.5	545.8	604.8	676.3	706.4
60.2	70°	74.0	144.3	227.1	301.1	382.7	450.4	508.2	565.9	592.2
27.6	72.5°	50.2	96.6	158.1	238.4	308.7	375.2	426.6	469.3	470.5
16.3	75°	25.1	65.2	120.5	184.4	240.9	306.1	352.6	377.7	347.6
10.0	77.5°	15.1	47.7	97.9	148.1	195.7	247.2	273.5	287.3	238.4
7.5	80°	8.8	33.9	76.5	117.9	135.5	181.9	207.0	210.8	159.3
5.0	82.5°	6.3	25.1	60.2	86.6	82.8	128.0	155.6	150.6	101.6
3.8	85°	3.8	17.6	37.6	54.0	50.2	84.1	90.3	92.8	59.0
2.5	87.5°	2.5	10.0	20.1	28.9	23.8	36.4	36.4	43.9	28.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6780.4
6612.3
6639.9
6559.6
6449.2
6313.7
6154.3
5963.6
5708.9
5461.7
5151.8
4875.8
4549.6
4235.9
3889.6
3618.6
3281.1
2983.7
2688.8
2404.0
2133.0
1874.5
1614.8
1387.7
1183.2
988.7
830.6
702.6
582.2
459.2
325.0
229.6
149.3
94.1
54.0
25.1
0.0

(END OF REPORT)