

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: P636566

Luminaire Tested: **IFLD-S-SA2D-927-U-66-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636566
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2D-927-U-66-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 6 distribution lens and Visor
Light Source: (32) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7883.6 lumens
Efficiency: N/A
Efficacy: 63.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

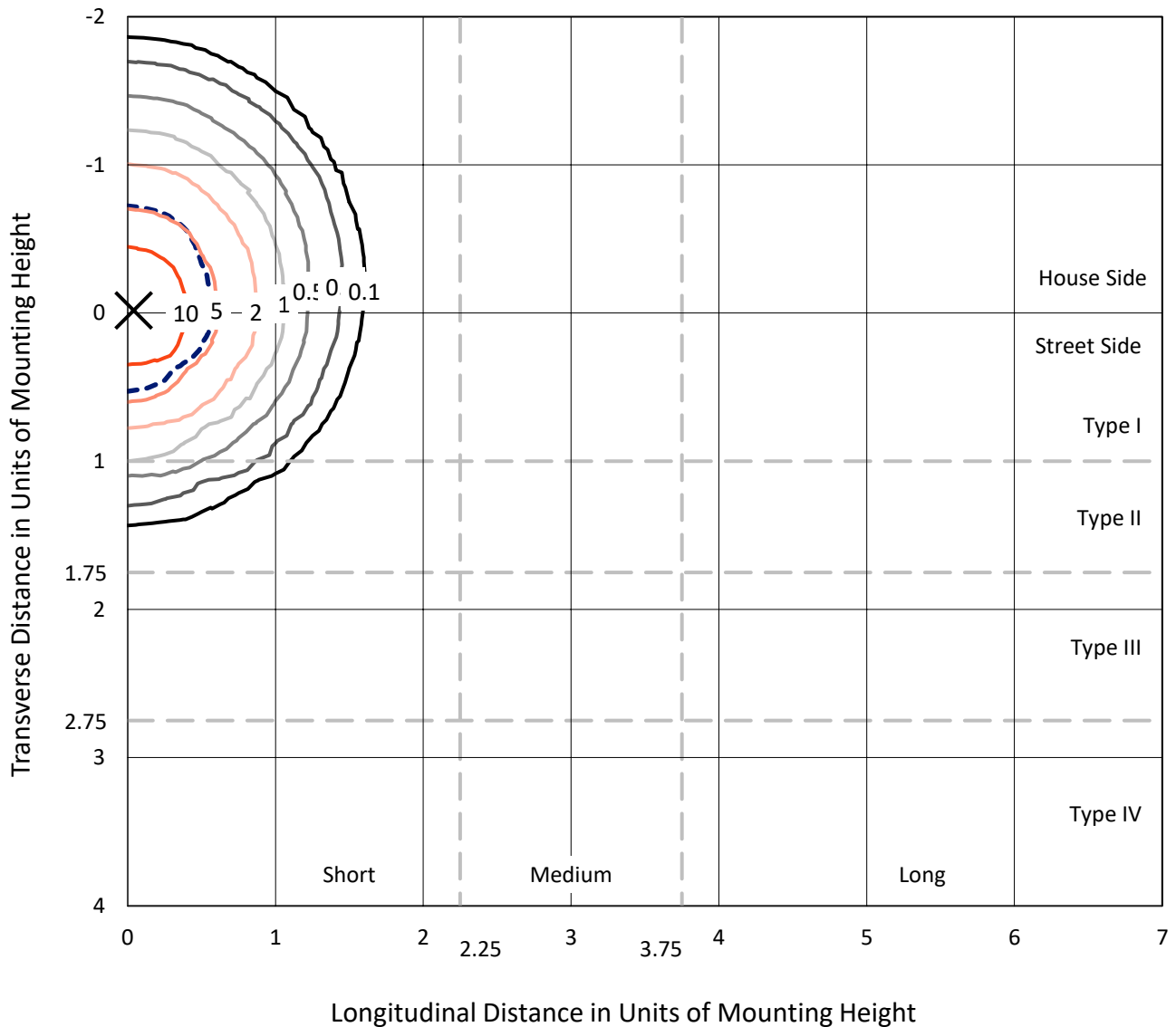
Input Watts (W): 123.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

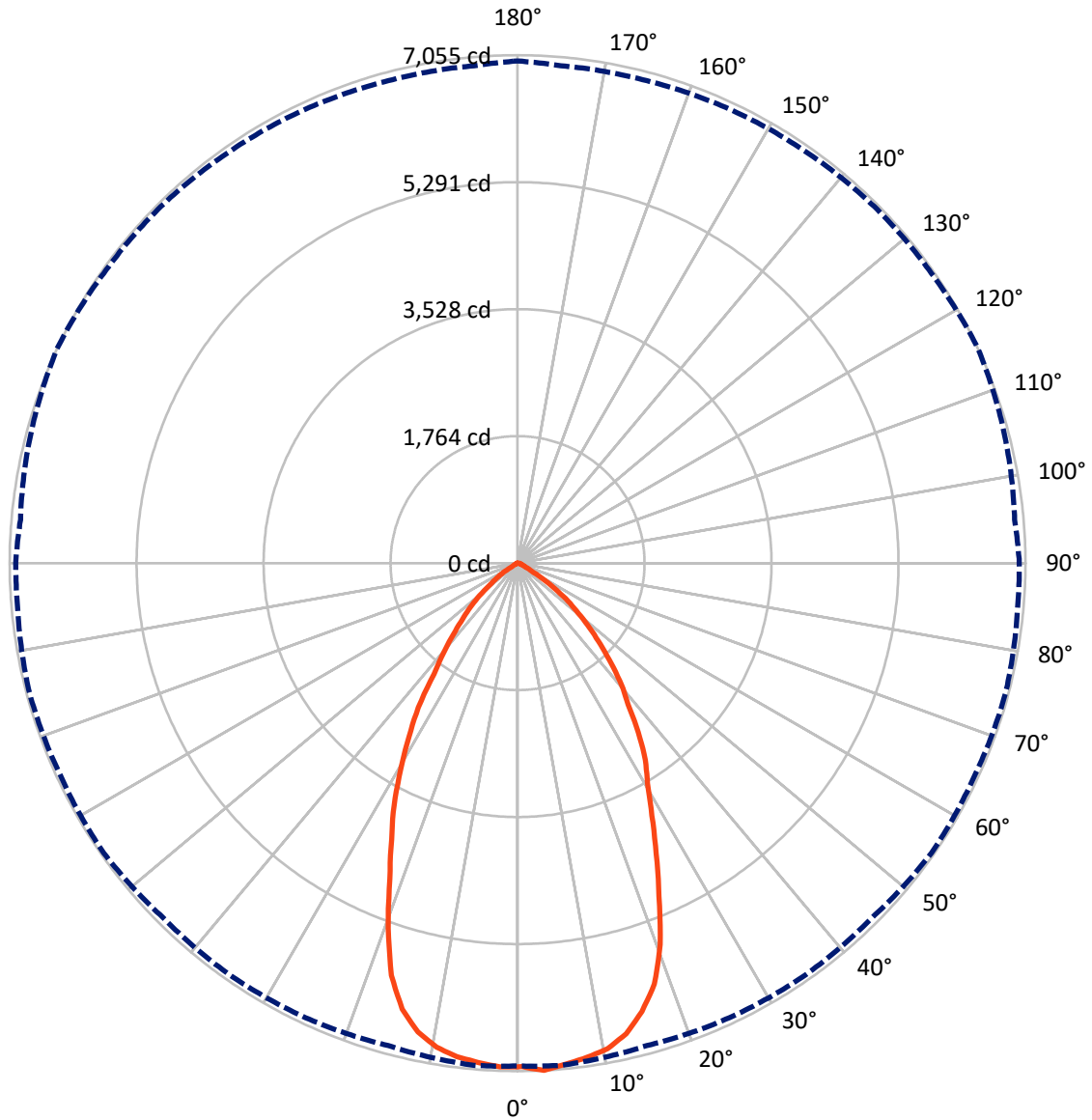
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.5 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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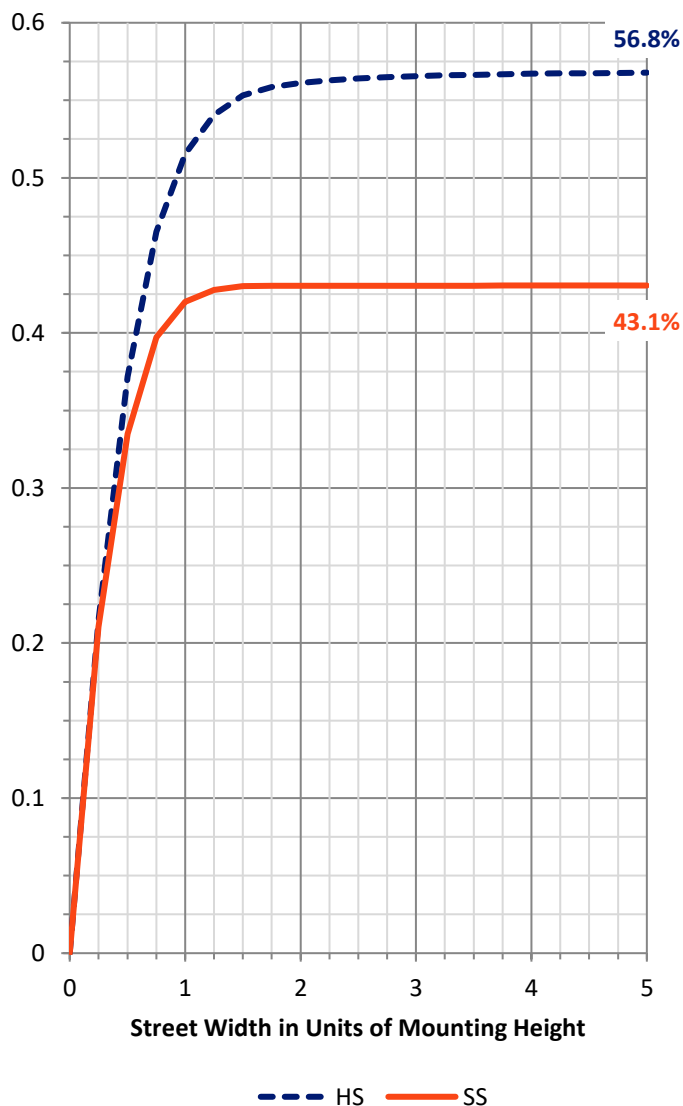
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4511.7	0.0	4511.7
	% Fixture	57.2	0.0	57.2
Street Side	Lumens	3371.9	0.0	3371.9
	% Fixture	42.8	0.0	42.8
Total	Lumens	7883.6	0.0	7883.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	658.8	8.4
10°-20°	1746.8	22.2
20°-30°	1998.0	25.3
30°-40°	1712.2	21.7
40°-50°	1132.2	14.4
50°-60°	494.0	6.3
60°-70°	97.1	1.2
70°-80°	35.0	0.4
80°-90°	9.3	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°	7883.6	100.0
0°-180°	7883.6	100.0



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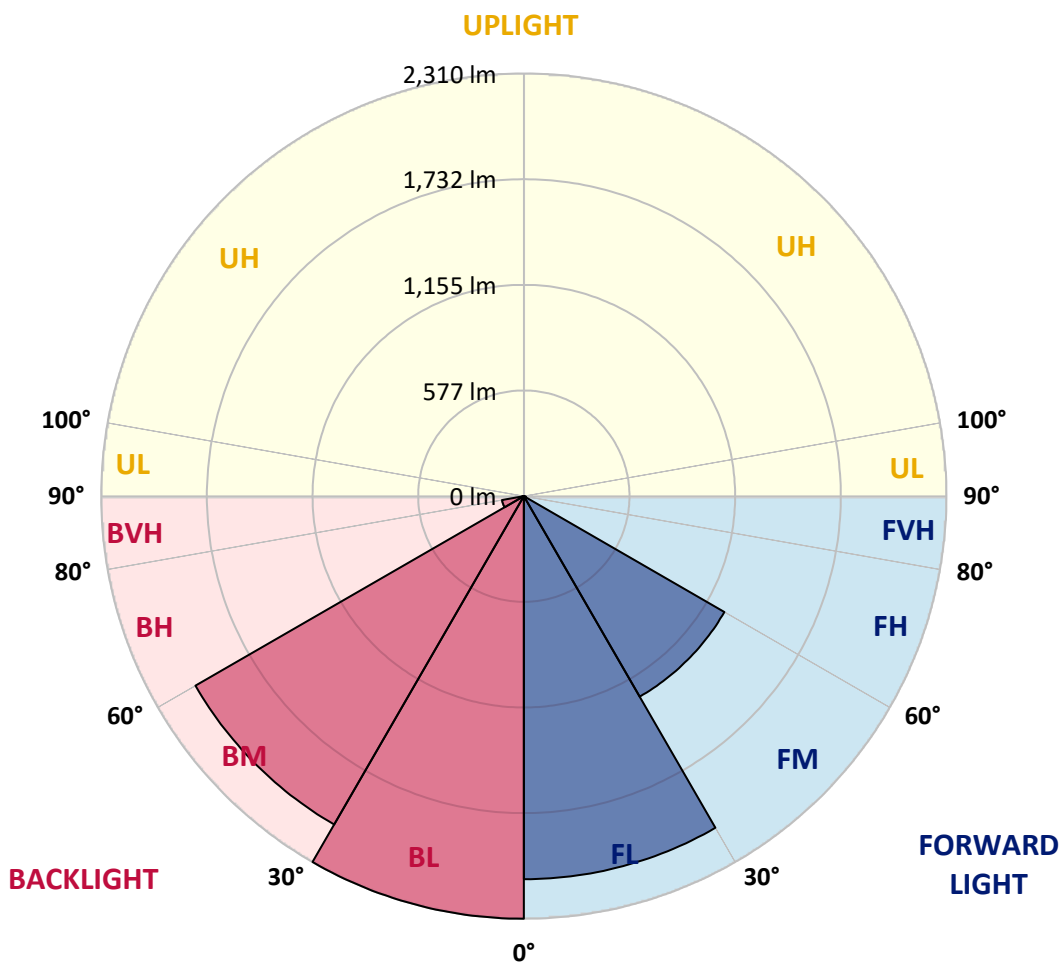
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2093.7	26.6			
FM (30°-60°)	1265.9	16.1			
FH (60°-80°)	10.7	0.1			G0/660
FVH (80°-90°)	1.5	0.0			G0/10
BL (0°-30°)	2310.0	29.3	B3/2500		
BM (30°-60°)	2072.6	26.3	B2/2500		
BH (60°-80°)	121.4	1.5	B1/500		G1/500
BVH (80°-90°)	7.8	0.1			G0/10
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°	6994.7	6994.7	6994.7	6994.7	6994.7	6994.7	6994.7	6994.7	6994.7	6994.7
2.5°	6984.7	7001.4	6937.7	6966.2	6978.0	6962.9	7018.2	7001.4	7014.8	6972.9
5°	6984.7	7001.4	6927.7	6941.1	6944.4	6916.0	6976.3	6956.2	6957.9	6914.3
7.5°	6941.1	6961.2	6894.2	6904.2	6905.9	6882.4	6934.4	6905.9	6895.9	6850.6
10°	6823.8	6835.5	6775.2	6800.3	6823.8	6802.0	6847.3	6815.4	6815.4	6775.2
12.5°	6637.8	6659.6	6592.5	6622.7	6642.8	6617.7	6669.6	6657.9	6659.6	6619.3
15°	6299.3	6223.9	6304.3	6364.6	6366.3	6361.3	6409.9	6398.1	6406.5	6346.2
17.5°	4653.7	4635.2	4729.1	5441.3	5970.8	6042.9	6051.3	5987.6	5959.1	5900.4
20°	4311.8	4325.2	4305.1	4308.4	4725.7	5592.1	5540.1	5382.6	5310.6	5251.9
22.5°	4062.1	4040.3	4026.9	4018.5	4030.3	4595.0	4968.7	4730.7	4692.2	4663.7
25°	3790.6	3780.6	3763.8	3760.5	3753.8	3658.2	4196.2	4217.9	4155.9	4120.8
27.5°	3537.6	3530.9	3512.4	3510.8	3433.7	3202.4	3261.1	3778.9	3762.1	3748.7
30°	3267.8	3254.4	3244.3	3244.3	3011.4	2773.4	2677.9	3294.6	3294.6	3282.9
32.5°	2974.5	2962.8	2966.1	2925.9	2647.7	2429.9	2279.1	2843.8	3019.8	3009.7
35°	1818.2	1814.9	2155.1	2602.5	2275.7	2078.0	2067.9	2433.2	2689.6	2716.4
37.5°	1618.8	1608.8	1613.8	1642.3	1948.9	1870.2	1866.8	1928.8	2289.1	2302.5
40°	1452.9	1446.2	1441.2	1339.0	1241.8	1669.1	1657.4	1617.1	1955.6	1979.1
42.5°	1295.4	1288.7	1288.7	1144.6	987.0	1372.5	1377.5	1330.6	1649.0	1657.4
45°	1132.8	1127.8	1099.3	913.3	868.1	911.6	1141.2	1087.6	1308.8	1395.9
47.5°	534.6	531.2	769.2	759.1	755.8	729.0	871.4	901.6	1039.0	1126.1
50°	429.0	425.6	405.5	356.9	621.7	553.0	628.4	693.8	737.3	817.8
52.5°	355.3	351.9	310.0	274.8	345.2	403.9	375.4	464.2	462.5	549.7
55°	232.9	216.2	238.0	224.6	181.0	293.3	286.6	351.9	343.5	418.9
57.5°	5.0	5.0	11.7	127.4	114.0	124.0	164.2	201.1	226.2	248.0
60°	1.7	1.7	3.4	6.7	46.9	51.9	63.7	73.7	103.9	129.0
62.5°	0.0	0.0	1.7	3.4	6.7	26.8	30.2	35.2	48.6	67.0
65°	0.0	0.0	0.0	1.7	3.4	6.7	10.1	21.8	30.2	38.5
67.5°	0.0	0.0	0.0	1.7	1.7	3.4	6.7	10.1	13.4	26.8
70°	0.0	0.0	0.0	1.7	1.7	3.4	5.0	6.7	10.1	13.4
72.5°	0.0	0.0	0.0	1.7	1.7	5.0	3.4	5.0	6.7	8.4
75°	0.0	0.0	0.0	1.7	1.7	1.7	3.4	5.0	5.0	6.7
77.5°	0.0	0.0	0.0	1.7	3.4	3.4	3.4	3.4	3.4	5.0
80°	0.0	0.0	0.0	1.7	1.7	3.4	5.0	6.7	3.4	3.4
82.5°	0.0	0.0	0.0	3.4	1.7	6.7	10.1	8.4	3.4	1.7
85°	0.0	0.0	0.0	1.7	6.7	8.4	8.4	5.0	1.7	1.7
87.5°	0.0	0.0	0.0	1.7	1.7	3.4	5.0	5.0	1.7	1.7
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°
6994.7	0°	6994.7	6994.7	6994.7	6994.7	6994.7	6994.7	6994.7	6994.7	6994.7
6969.6	2.5°	6931.0	6996.4	7055.1	7018.2	7004.8	6978.0	6957.9	6936.1	6934.4
6909.3	5°	6870.7	6932.7	6989.7	6946.1	6949.5	6936.1	6922.7	6917.6	6921.0
6847.3	7.5°	6818.8	6870.7	6932.7	6895.9	6905.9	6897.5	6890.8	6880.8	6895.9
6766.8	10°	6740.0	6786.9	6859.0	6823.8	6818.8	6810.4	6803.7	6785.3	6793.6
6621.0	12.5°	6567.4	6626.1	6708.2	6667.9	6681.4	6657.9	6647.8	6636.1	6637.8
6368.0	15°	6332.8	6378.0	6461.8	6430.0	6440.0	6425.0	6425.0	6425.0	6436.7
5908.8	17.5°	5923.9	6016.1	6148.5	6108.2	6123.3	6126.7	6123.3	6135.0	6150.1
5255.3	20°	5258.6	5416.1	5657.4	5736.2	5768.0	5769.7	5746.3	5774.8	5804.9
4643.6	22.5°	4646.9	4812.9	5025.7	5241.9	5375.9	5369.2	5372.6	5391.0	5422.8
4099.0	25°	4117.4	4276.6	4469.3	4662.0	4955.3	5015.6	5017.3	5034.1	5059.2
3726.9	27.5°	3735.3	3797.3	3973.3	4167.7	4482.7	4675.4	4665.4	4680.5	4707.3
3261.1	30°	3274.5	3512.4	3552.7	3671.6	3943.1	4296.7	4298.4	4315.1	4342.0
2986.2	32.5°	2977.9	3135.4	3259.4	3262.8	3494.0	3857.7	3929.7	3946.5	3964.9
2701.4	35°	2699.7	2718.1	2885.7	2932.6	3066.7	3427.0	3554.3	3564.4	3594.6
2297.5	37.5°	2336.0	2445.0	2491.9	2659.5	2666.2	2957.8	3210.8	3200.7	3224.2
1977.4	40°	2002.6	2106.5	2225.4	2347.8	2364.5	2582.4	2862.2	2872.3	2882.3
1640.6	42.5°	1654.0	1786.4	1908.7	1990.8	2104.8	2230.5	2496.9	2543.8	2567.3
1406.0	45°	1431.1	1468.0	1613.8	1734.4	1850.1	1908.7	2158.4	2243.9	2259.0
1112.7	47.5°	1127.8	1251.8	1350.7	1452.9	1597.0	1649.0	1830.0	1948.9	1960.7
826.2	50°	871.4	960.2	1096.0	1188.1	1355.7	1384.2	1508.2	1662.4	1677.5
553.0	52.5°	623.4	744.0	876.4	965.3	1126.1	1163.0	1255.2	1402.6	1412.7
424.0	55°	447.4	526.2	635.1	762.5	879.8	961.9	1025.6	1166.3	1179.8
278.2	57.5°	305.0	378.7	424.0	551.3	621.7	710.5	762.5	869.7	879.8
132.4	60°	145.8	181.0	216.2	279.9	325.1	400.5	434.0	477.6	489.3
80.4	62.5°	93.8	110.6	140.8	167.6	211.1	258.1	271.5	308.3	321.8
50.3	65°	62.0	78.8	110.6	117.3	160.9	197.7	214.5	241.3	256.4
30.2	67.5°	35.2	55.3	82.1	97.2	127.4	162.6	181.0	204.4	217.9
20.1	70°	23.5	45.2	65.4	80.4	100.5	130.7	154.2	174.3	182.7
10.1	72.5°	13.4	28.5	45.2	63.7	80.4	108.9	130.7	147.5	97.2
6.7	75°	8.4	21.8	38.5	53.6	67.0	87.1	105.6	103.9	43.6
5.0	77.5°	6.7	16.8	33.5	45.2	55.3	60.3	75.4	85.5	33.5
3.4	80°	5.0	13.4	30.2	38.5	21.8	43.6	58.7	63.7	23.5
3.4	82.5°	3.4	8.4	25.1	26.8	15.1	31.8	46.9	41.9	16.8
1.7	85°	1.7	5.0	8.4	15.1	13.4	15.1	11.7	16.8	11.7
1.7	87.5°	1.7	3.4	6.7	6.7	6.7	5.0	6.7	6.7	6.7
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
6994.7
6974.6
6962.9
6937.7
6833.8
6686.4
6441.7
6200.4
5825.0
5427.9
5102.8
4732.4
4388.9
4006.8
3626.4
3252.7
2914.2
2600.8
2295.8
1989.2
1699.2
1431.1
1191.5
899.9
502.7
325.1
256.4
216.2
181.0
78.8
43.6
33.5
25.1
16.8
11.7
6.7
0.0

(END OF REPORT)