

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: P636770

Luminaire Tested: **IFLD-S-SA2E-935-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636770
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-935-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 3500K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9244 lumens
Efficiency: N/A
Efficacy: 59.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

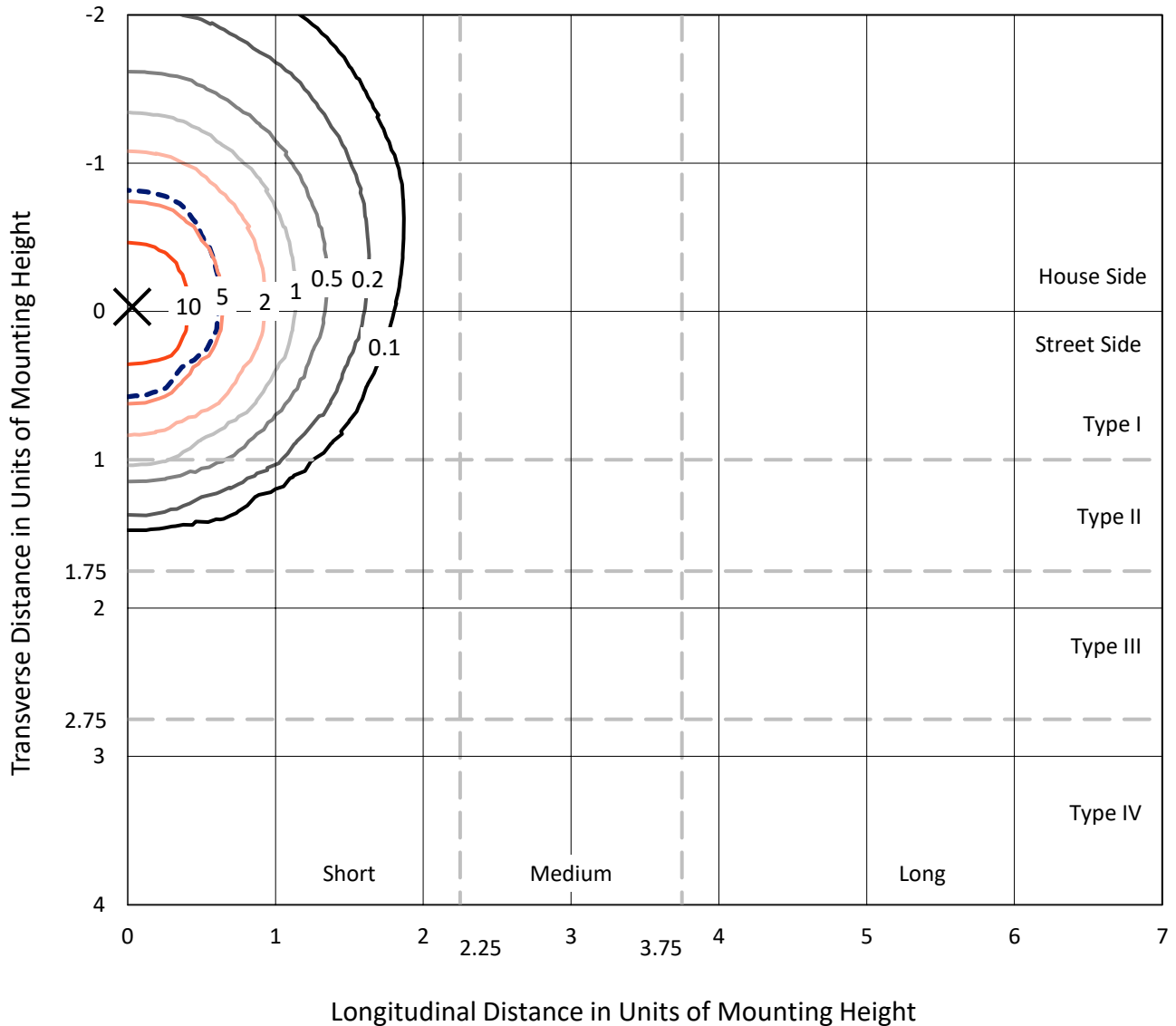
Input Watts (W): 156.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

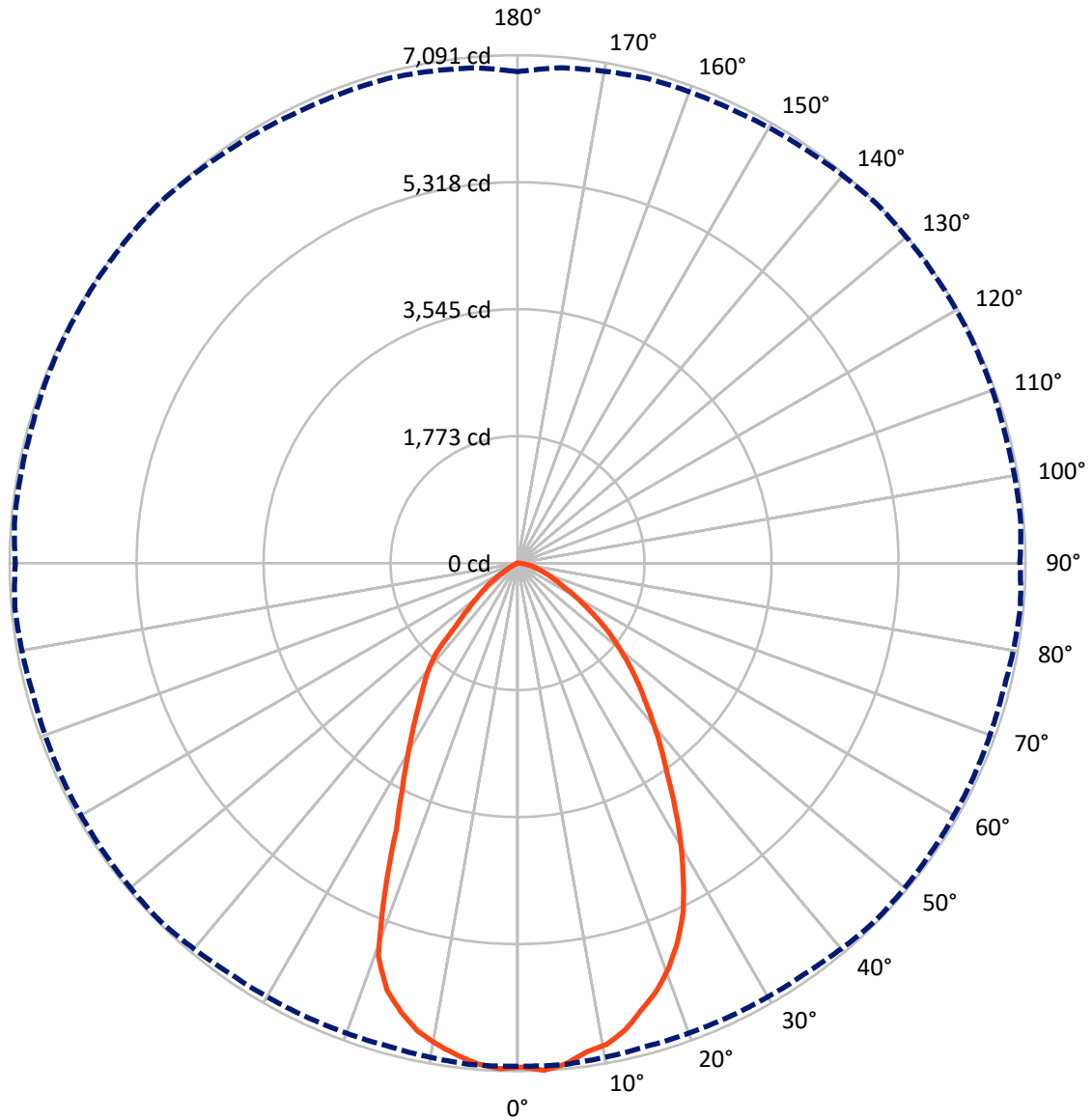
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 17.6 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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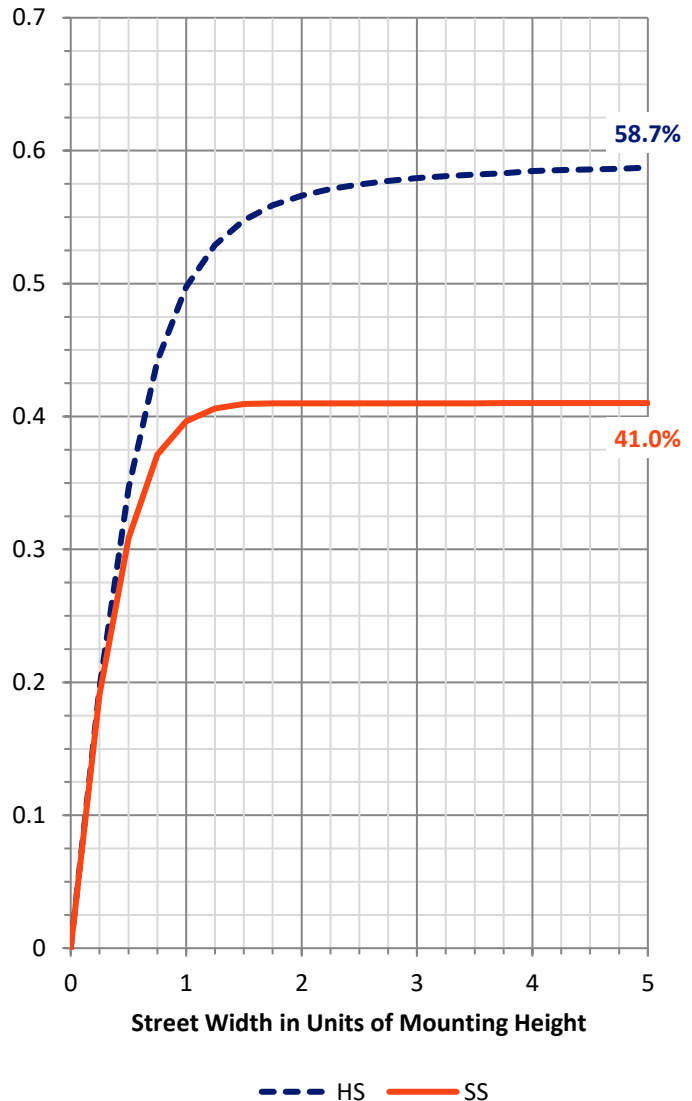
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5474.8	0.0	5474.8
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	3769.2	0.0	3769.2
	% Fixture	40.8	0.0	40.8
Total	Lumens	9244.0	0.0	9244.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.7	7.1
10°-20°	1769.1	19.1
20°-30°	2157.6	23.3
30°-40°	1969.8	21.3
40°-50°	1423.6	15.4
50°-60°	777.3	8.4
60°-70°	321.4	3.5
70°-80°	130.2	1.4
80°-90°	35.4	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°	9244.0	100.0
0°-180°	9244.0	100.0



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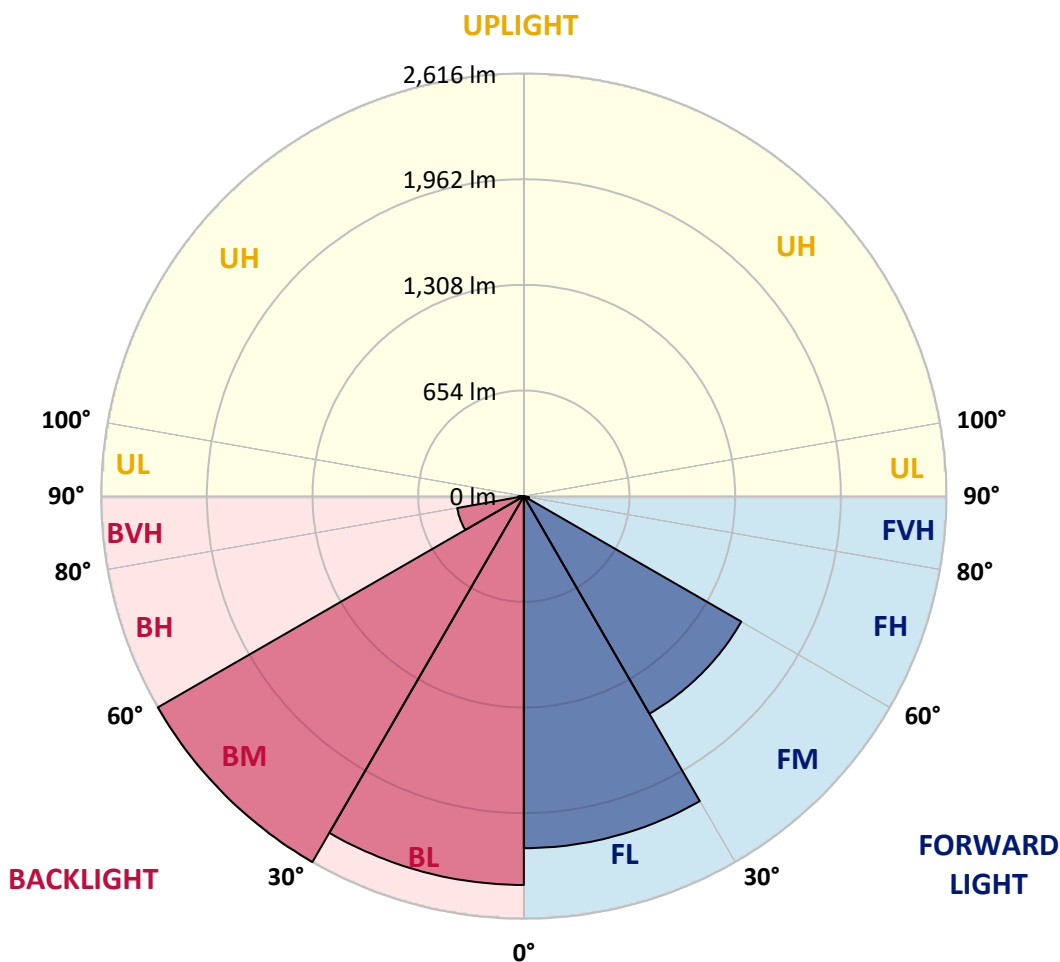
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2179.2	23.6			
FM (30°-60°)	1554.7	16.8			
FH (60°-80°)	32.6	0.4			G0/660
FVH (80°-90°)	2.8	0.0			G0/10
BL (0°-30°)	2407.3	26.0	B3/2500		
BM (30°-60°)	2616.0	28.3	B3/5000		
BH (60°-80°)	419.0	4.5	B1/500		G1/500
BVH (80°-90°)	32.6	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°	7034.7	7034.7	7034.7	7034.7	7034.7	7034.7	7034.7	7034.7	7034.7	7034.7
2.5°	7021.7	7030.8	6981.3	6986.5	6995.6	7062.0	7045.1	7029.5	7007.3	7045.1
5°	7012.6	7017.8	6965.7	6947.5	6955.3	7015.2	6960.5	6960.5	6955.3	6948.8
7.5°	6942.3	6944.9	6904.5	6872.0	6892.8	6920.1	6879.8	6899.3	6870.7	6892.8
10°	6836.8	6819.9	6771.7	6762.6	6786.1	6812.1	6784.7	6803.0	6776.9	6793.9
12.5°	6681.9	6655.9	6616.8	6605.1	6645.5	6680.6	6658.5	6648.1	6614.2	6655.9
15°	6084.4	6064.9	6153.4	6308.3	6447.6	6477.5	6454.1	6464.5	6394.2	6405.9
17.5°	5007.9	4971.4	5066.4	5433.5	5956.8	6232.8	6212.0	6144.3	6040.1	6063.6
20°	4550.9	4540.5	4530.1	4617.3	4983.1	5820.1	5848.8	5677.0	5528.6	5496.0
22.5°	4293.2	4289.3	4278.9	4298.4	4394.7	4932.4	5260.4	5101.6	5002.6	4993.5
25°	4057.6	4051.1	4019.8	4044.6	4044.6	4075.8	4496.3	4592.6	4505.4	4495.0
27.5°	3818.0	3806.3	3801.1	3812.8	3753.0	3542.1	3648.8	4118.8	4073.2	4075.8
30°	3559.0	3555.1	3540.8	3565.5	3380.7	3119.0	3051.3	3689.2	3698.3	3695.7
32.5°	3173.7	3190.6	3255.7	3283.0	2978.4	2762.3	2649.1	3191.9	3378.1	3374.2
35°	2305.4	2305.4	2517.6	2912.0	2610.0	2447.3	2386.1	2706.3	3061.7	3074.7
37.5°	1895.4	1901.9	1943.5	2123.2	2252.0	2194.8	2176.5	2278.1	2655.6	2676.4
40°	1705.3	1705.3	1705.3	1631.1	1627.2	1977.4	1967.0	1934.4	2293.7	2339.3
42.5°	1532.2	1536.1	1538.7	1351.2	1247.1	1709.2	1685.8	1636.3	1969.6	2022.9
45°	1353.8	1360.3	1368.1	1129.9	1084.4	1230.2	1426.7	1372.1	1649.3	1718.3
47.5°	826.6	837.0	1014.1	958.1	963.3	949.0	1163.8	1154.7	1352.5	1450.2
50°	558.5	562.4	579.3	607.9	826.6	745.9	824.0	955.5	1027.1	1175.5
52.5°	468.6	475.1	433.5	394.4	542.8	583.2	575.4	709.5	738.1	921.6
55°	329.3	350.2	330.6	326.7	308.5	453.0	436.1	545.4	563.7	700.3
57.5°	33.8	39.1	67.7	243.4	201.8	256.4	311.1	399.6	417.9	516.8
60°	2.6	2.6	6.5	33.8	147.1	153.6	214.8	246.0	281.2	360.6
62.5°	0.0	1.3	2.6	5.2	23.4	82.0	108.0	128.9	169.2	233.0
65°	0.0	0.0	1.3	3.9	5.2	31.2	41.7	67.7	92.4	144.5
67.5°	0.0	0.0	1.3	2.6	3.9	7.8	14.3	24.7	49.5	82.0
70°	0.0	0.0	1.3	2.6	3.9	6.5	10.4	15.6	22.1	44.3
72.5°	0.0	0.0	1.3	1.3	2.6	6.5	7.8	10.4	15.6	22.1
75°	0.0	0.0	1.3	1.3	3.9	7.8	6.5	7.8	10.4	14.3
77.5°	0.0	0.0	1.3	2.6	3.9	7.8	6.5	7.8	7.8	9.1
80°	0.0	0.0	1.3	2.6	5.2	9.1	7.8	7.8	6.5	6.5
82.5°	0.0	0.0	1.3	3.9	5.2	11.7	11.7	10.4	5.2	3.9
85°	0.0	0.0	2.6	5.2	7.8	13.0	13.0	10.4	3.9	2.6
87.5°	0.0	0.0	2.6	3.9	6.5	9.1	13.0	10.4	3.9	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°
7034.7	0°	7034.7	7034.7	7034.7	7034.7	7034.7	7034.7	7034.7	7034.7	7034.7
7012.6	2.5°	7047.7	7039.9	7065.9	7076.3	7090.7	7036.0	7002.1	7003.4	6941.0
6933.1	5°	6974.8	6976.1	7010.0	7007.3	7021.7	6991.7	6978.7	6956.6	6901.9
6832.9	7.5°	6882.4	6870.7	6903.2	6927.9	6891.5	6912.3	6882.4	6892.8	6860.3
6744.4	10°	6810.8	6783.4	6813.4	6830.3	6831.6	6810.8	6782.1	6754.8	6743.1
6606.4	12.5°	6652.0	6616.8	6667.6	6691.0	6687.1	6646.8	6614.2	6620.7	6583.0
6364.3	15°	6433.3	6434.6	6471.0	6493.2	6472.3	6463.2	6465.8	6450.2	6417.7
6029.7	17.5°	6098.7	6118.3	6214.6	6268.0	6279.7	6261.4	6252.3	6234.1	6201.6
5496.0	20°	5541.6	5658.7	5830.6	5995.9	6028.4	6023.2	5990.7	5982.9	5964.6
4967.5	22.5°	5052.1	5139.3	5338.5	5596.2	5729.0	5742.0	5703.0	5691.3	5671.7
4495.0	25°	4545.7	4639.5	4819.1	5099.0	5373.6	5429.6	5423.1	5388.0	5367.1
4075.8	27.5°	4118.8	4212.5	4375.2	4627.7	4921.9	5101.6	5118.5	5062.5	5061.2
3702.2	30°	3733.4	3862.3	3986.0	4191.7	4476.7	4746.2	4774.8	4735.8	4739.7
3359.8	32.5°	3431.4	3538.2	3643.6	3781.6	4018.5	4332.2	4444.2	4407.7	4393.4
3074.7	35°	3122.9	3195.8	3303.9	3430.1	3591.5	3902.7	4096.6	4069.3	4055.0
2689.4	37.5°	2771.4	2896.4	2974.5	3116.4	3242.7	3490.0	3763.4	3759.5	3729.5
2361.4	40°	2410.9	2542.3	2660.8	2804.0	2901.6	3098.2	3401.5	3400.2	3404.1
2021.6	42.5°	2084.1	2205.2	2348.4	2504.6	2598.3	2741.5	3066.9	3085.2	3107.3
1741.7	45°	1788.6	1898.0	2030.7	2220.8	2334.0	2416.1	2705.0	2788.4	2787.1
1491.8	47.5°	1523.1	1625.9	1737.8	1922.7	2067.2	2141.4	2380.9	2499.4	2491.6
1223.7	50°	1278.3	1369.4	1486.6	1620.7	1814.6	1879.7	2058.1	2214.3	2202.6
975.0	52.5°	1028.4	1154.7	1253.6	1376.0	1580.3	1644.1	1782.1	1934.4	1925.3
731.6	55°	801.9	924.2	1044.0	1149.5	1321.3	1416.3	1515.2	1671.5	1668.9
572.8	57.5°	606.6	740.7	854.0	954.2	1090.9	1208.0	1287.4	1429.3	1447.6
391.8	60°	449.1	551.9	674.3	786.3	894.3	1015.4	1068.7	1208.0	1215.8
268.2	62.5°	305.9	419.2	538.9	640.5	721.2	846.1	894.3	1008.9	1023.2
171.8	65°	212.2	285.1	421.8	494.7	593.6	700.3	748.5	839.6	868.3
98.9	67.5°	140.6	203.1	329.3	395.7	493.4	566.3	627.4	701.6	732.9
62.5	70°	76.8	149.7	235.6	312.4	397.0	467.3	527.2	587.1	614.4
28.6	72.5°	52.1	100.2	164.0	247.3	320.2	389.2	442.6	486.9	488.2
16.9	75°	26.0	67.7	125.0	191.4	249.9	317.6	365.8	391.8	360.6
10.4	77.5°	15.6	49.5	101.5	153.6	203.1	256.4	283.8	298.1	247.3
7.8	80°	9.1	35.1	79.4	122.4	140.6	188.8	214.8	218.7	165.3
5.2	82.5°	6.5	26.0	62.5	89.8	85.9	132.8	161.4	156.2	105.4
3.9	85°	3.9	18.2	39.1	56.0	52.1	87.2	93.7	96.3	61.2
2.6	87.5°	2.6	10.4	20.8	29.9	24.7	37.8	37.8	45.6	29.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
7034.7
6860.3
6888.9
6805.6
6691.0
6550.4
6385.1
6187.2
5923.0
5666.5
5345.0
5058.6
4720.2
4394.7
4035.4
3754.3
3404.1
3095.6
2789.7
2494.2
2213.0
1944.8
1675.4
1439.7
1227.6
1025.8
861.8
729.0
604.0
476.4
337.2
238.2
154.9
97.6
56.0
26.0
0.0

(END OF REPORT)