

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: P636795

Luminaire Tested: **IFLD-S-SA2A-940-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636795
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-940-U-77-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 7 distribution lens and Visor
Light Source: (32) 4000K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5131.4 lumens
Efficiency: N/A
Efficacy: 80.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

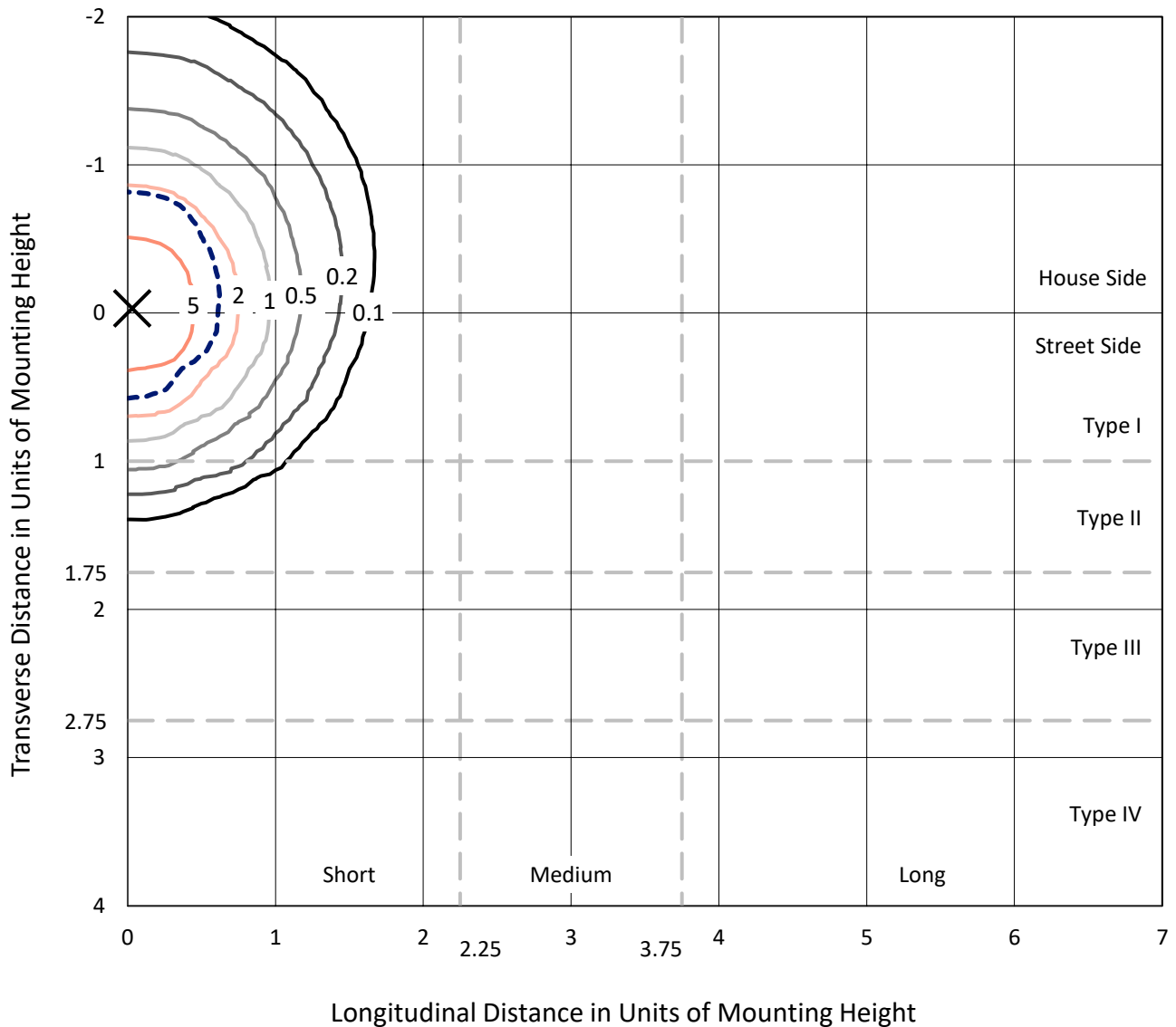
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

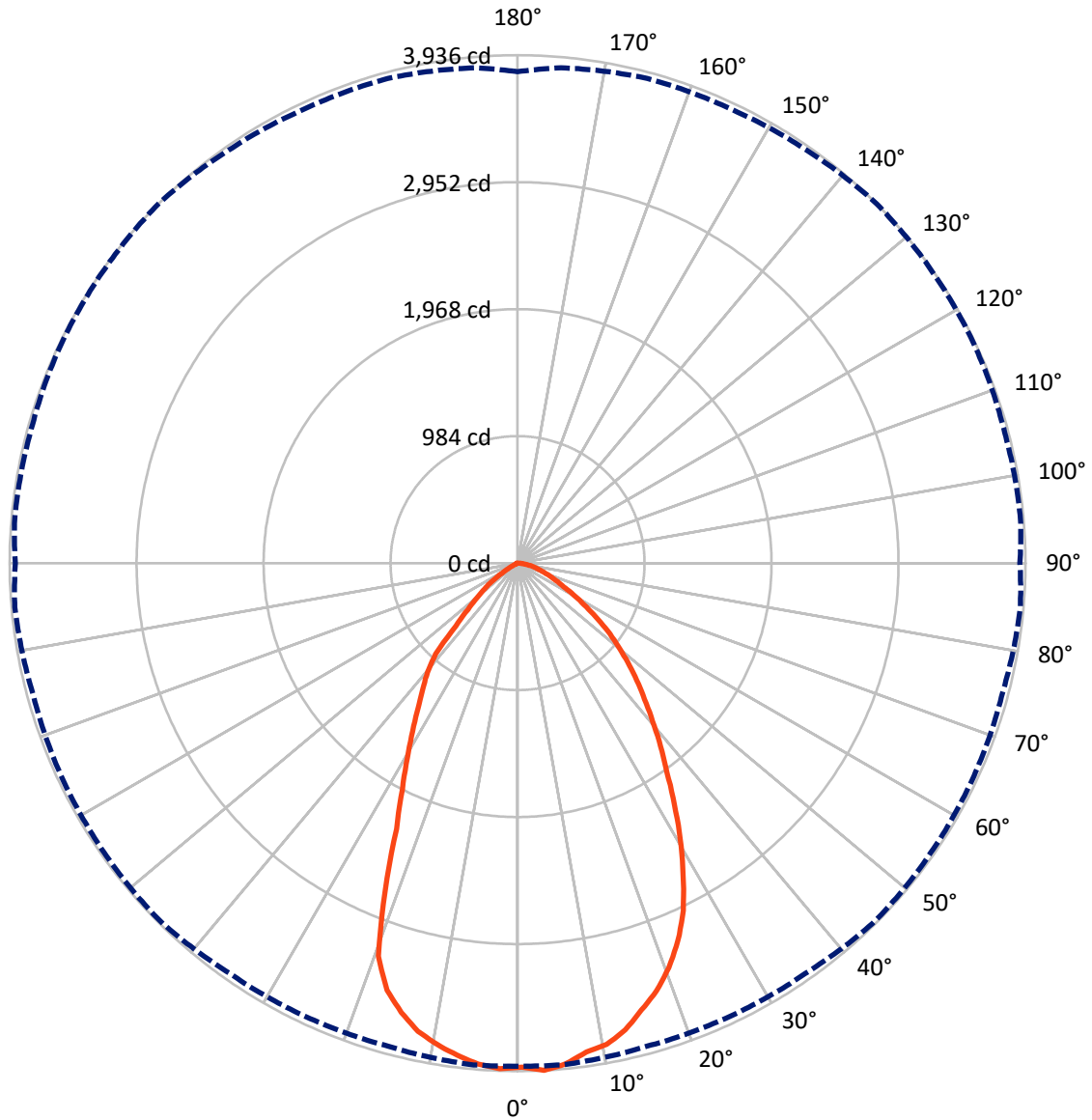
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9.8 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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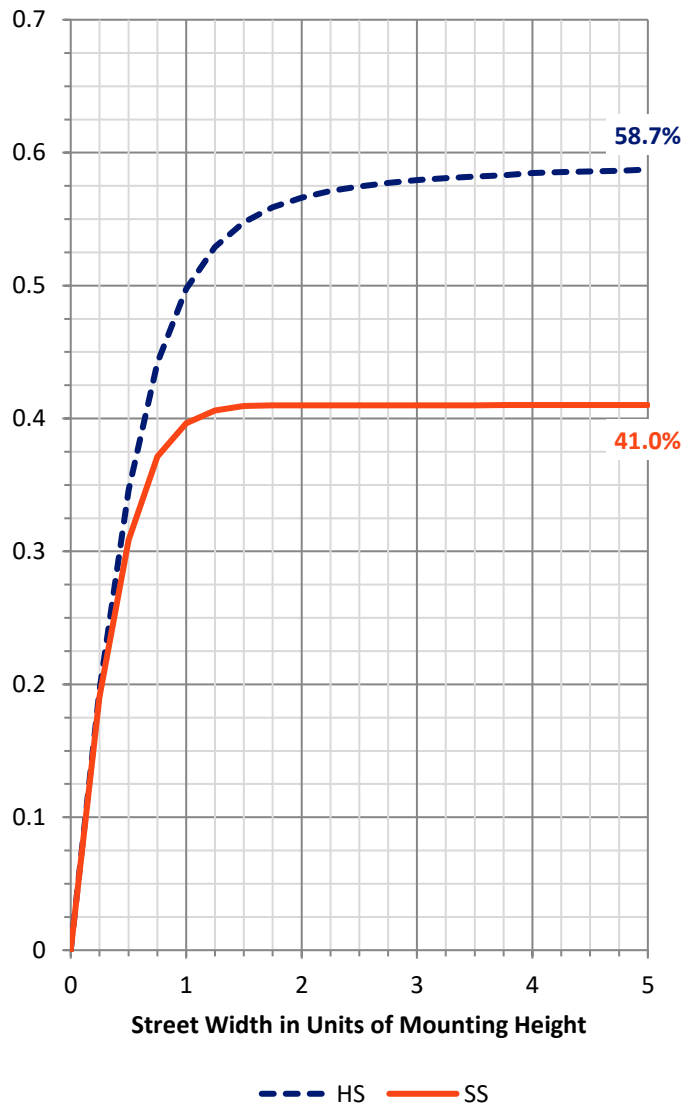
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3039.1	0.0	3039.1
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2092.3	0.0	2092.3
	% Fixture	40.8	0.0	40.8
Total	Lumens	5131.4	0.0	5131.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	366.2	7.1
10°-20°	982.1	19.1
20°-30°	1197.7	23.3
30°-40°	1093.5	21.3
40°-50°	790.2	15.4
50°-60°	431.5	8.4
60°-70°	178.4	3.5
70°-80°	72.3	1.4
80°-90°	19.7	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°	5131.4	100.0
0°-180°	5131.4	100.0



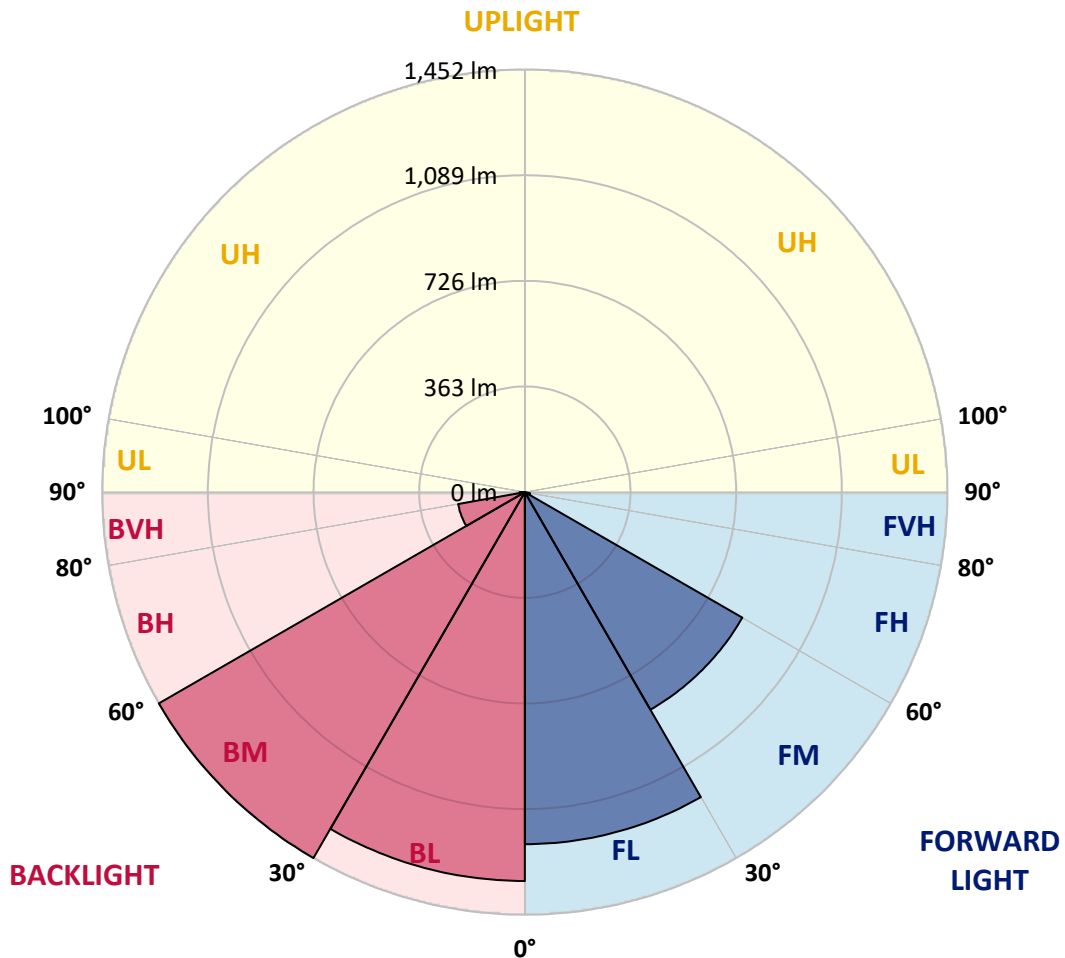
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1209.7	23.6			
FM (30°-60°)	863.0	16.8			
FH (60°-80°)	18.1	0.4			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	1336.3	26.0	B3/2500		
BM (30°-60°)	1452.1	28.3	B2/2500		
BH (60°-80°)	232.6	4.5	B1/500		G1/500
BVH (80°-90°)	18.1	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°	3905.0	3905.0	3905.0	3905.0	3905.0	3905.0	3905.0	3905.0	3905.0	3905.0
2.5°	3897.7	3902.8	3875.3	3878.2	3883.3	3920.1	3910.7	3902.1	3889.8	3910.7
5°	3892.7	3895.6	3866.7	3856.6	3860.9	3894.1	3863.8	3863.8	3860.9	3857.3
7.5°	3853.7	3855.1	3832.7	3814.6	3826.2	3841.4	3819.0	3829.8	3813.9	3826.2
10°	3795.1	3785.7	3759.0	3753.9	3766.9	3781.4	3766.2	3776.3	3761.9	3771.3
12.5°	3709.1	3694.7	3673.0	3666.5	3688.9	3708.4	3696.1	3690.4	3671.6	3694.7
15°	3377.5	3366.6	3415.8	3501.8	3579.1	3595.7	3582.7	3588.5	3549.4	3555.9
17.5°	2779.9	2759.6	2812.4	3016.2	3306.6	3459.8	3448.3	3410.7	3352.9	3365.9
20°	2526.2	2520.5	2514.7	2563.1	2766.1	3230.8	3246.7	3151.3	3068.9	3050.8
22.5°	2383.2	2381.0	2375.2	2386.0	2439.5	2738.0	2920.1	2831.9	2777.0	2771.9
25°	2252.4	2248.8	2231.4	2245.1	2245.1	2262.5	2495.9	2549.4	2500.9	2495.2
27.5°	2119.4	2112.9	2110.0	2116.5	2083.3	1966.2	2025.5	2286.3	2261.0	2262.5
30°	1975.6	1973.4	1965.5	1979.2	1876.6	1731.4	1693.8	2047.9	2052.9	2051.5
32.5°	1761.7	1771.1	1807.2	1822.4	1653.3	1533.4	1470.5	1771.8	1875.2	1873.0
35°	1279.7	1279.7	1397.5	1616.5	1448.8	1358.5	1324.5	1502.3	1699.6	1706.8
37.5°	1052.1	1055.7	1078.9	1178.6	1250.1	1218.3	1208.2	1264.6	1474.1	1485.7
40°	946.6	946.6	946.6	905.4	903.3	1097.6	1091.9	1073.8	1273.2	1298.5
42.5°	850.5	852.7	854.1	750.1	692.3	948.8	935.8	908.3	1093.3	1122.9
45°	751.5	755.1	759.5	627.2	601.9	682.9	792.0	761.6	915.5	953.8
47.5°	458.9	464.6	562.9	531.8	534.7	526.8	646.0	641.0	750.8	805.0
50°	310.0	312.2	321.6	337.5	458.9	414.1	457.4	530.4	570.1	652.5
52.5°	260.1	263.8	240.6	218.9	301.3	323.7	319.4	393.8	409.7	511.6
55°	182.8	194.4	183.5	181.4	171.3	251.5	242.1	302.8	312.9	388.8
57.5°	18.8	21.7	37.6	135.1	112.0	142.4	172.7	221.8	232.0	286.9
60°	1.4	1.4	3.6	18.8	81.7	85.3	119.2	136.6	156.1	200.2
62.5°	0.0	0.7	1.4	2.9	13.0	45.5	60.0	71.5	93.9	129.3
65°	0.0	0.0	0.7	2.2	2.9	17.3	23.1	37.6	51.3	80.2
67.5°	0.0	0.0	0.7	1.4	2.2	4.3	7.9	13.7	27.5	45.5
70°	0.0	0.0	0.7	1.4	2.2	3.6	5.8	8.7	12.3	24.6
72.5°	0.0	0.0	0.7	0.7	1.4	3.6	4.3	5.8	8.7	12.3
75°	0.0	0.0	0.7	0.7	2.2	4.3	3.6	4.3	5.8	7.9
77.5°	0.0	0.0	0.7	1.4	2.2	4.3	3.6	4.3	4.3	5.1
80°	0.0	0.0	0.7	1.4	2.9	5.1	4.3	4.3	3.6	3.6
82.5°	0.0	0.0	0.7	2.2	2.9	6.5	6.5	5.8	2.9	2.2
85°	0.0	0.0	1.4	2.9	4.3	7.2	7.2	5.8	2.2	1.4
87.5°	0.0	0.0	1.4	2.2	3.6	5.1	7.2	5.8	2.2	0.7
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°
3905.0	0°	3905.0	3905.0	3905.0	3905.0	3905.0	3905.0	3905.0	3905.0	3905.0
3892.7	2.5°	3912.2	3907.9	3922.3	3928.1	3936.0	3905.7	3886.9	3887.6	3852.9
3848.6	5°	3871.7	3872.4	3891.2	3889.8	3897.7	3881.1	3873.9	3861.6	3831.3
3793.0	7.5°	3820.4	3813.9	3832.0	3845.7	3825.5	3837.0	3820.4	3826.2	3808.1
3743.8	10°	3780.7	3765.5	3782.1	3791.5	3792.2	3780.7	3764.8	3749.6	3743.1
3667.2	12.5°	3692.5	3673.0	3701.2	3714.2	3712.0	3689.6	3671.6	3675.2	3654.2
3532.8	15°	3571.1	3571.8	3592.1	3604.4	3592.8	3587.7	3589.2	3580.5	3562.5
3347.1	17.5°	3385.4	3396.3	3449.7	3479.4	3485.9	3475.7	3470.7	3460.6	3442.5
3050.8	20°	3076.1	3141.2	3236.6	3328.3	3346.4	3343.5	3325.4	3321.1	3311.0
2757.5	22.5°	2804.4	2852.9	2963.4	3106.5	3180.2	3187.4	3165.7	3159.2	3148.4
2495.2	25°	2523.3	2575.4	2675.1	2830.5	2982.9	3014.0	3010.4	2990.9	2979.3
2262.5	27.5°	2286.3	2338.4	2428.7	2568.9	2732.2	2831.9	2841.3	2810.2	2809.5
2055.1	30°	2072.4	2144.0	2212.6	2326.8	2485.0	2634.6	2650.5	2628.8	2631.0
1865.0	32.5°	1904.8	1964.0	2022.6	2099.2	2230.7	2404.8	2467.0	2446.7	2438.8
1706.8	35°	1733.5	1774.0	1834.0	1904.1	1993.7	2166.4	2274.0	2258.9	2250.9
1492.9	37.5°	1538.4	1607.8	1651.2	1729.9	1800.0	1937.3	2089.1	2086.9	2070.3
1310.8	40°	1338.3	1411.3	1477.0	1556.5	1610.7	1719.8	1888.2	1887.4	1889.6
1122.2	42.5°	1156.9	1224.1	1303.6	1390.3	1442.3	1521.8	1702.5	1712.6	1724.9
966.8	45°	992.9	1053.6	1127.3	1232.8	1295.6	1341.2	1501.6	1547.8	1547.1
828.1	47.5°	845.4	902.5	964.7	1067.3	1147.5	1188.7	1321.6	1387.4	1383.1
679.3	50°	709.6	760.2	825.2	899.6	1007.3	1043.4	1142.4	1229.2	1222.7
541.2	52.5°	570.9	641.0	695.9	763.8	877.2	912.7	989.2	1073.8	1068.7
406.1	55°	445.1	513.1	579.5	638.1	733.4	786.2	841.1	927.8	926.4
317.9	57.5°	336.7	411.2	474.0	529.7	605.5	670.6	714.7	793.4	803.5
217.5	60°	249.3	306.4	374.3	436.5	496.4	563.6	593.3	670.6	674.9
148.9	62.5°	169.8	232.7	299.2	355.5	400.3	469.7	496.4	560.0	568.0
95.4	65°	117.8	158.3	234.1	274.6	329.5	388.8	415.5	466.1	482.0
54.9	67.5°	78.0	112.7	182.8	219.7	273.9	314.3	348.3	389.5	406.8
34.7	70°	42.6	83.1	130.8	173.4	220.4	259.4	292.7	325.9	341.1
15.9	72.5°	28.9	55.6	91.0	137.3	177.8	216.1	245.7	270.3	271.0
9.4	75°	14.5	37.6	69.4	106.2	138.7	176.3	203.1	217.5	200.2
5.8	77.5°	8.7	27.5	56.4	85.3	112.7	142.4	157.5	165.5	137.3
4.3	80°	5.1	19.5	44.1	67.9	78.0	104.8	119.2	121.4	91.8
2.9	82.5°	3.6	14.5	34.7	49.9	47.7	73.7	89.6	86.7	58.5
2.2	85°	2.2	10.1	21.7	31.1	28.9	48.4	52.0	53.5	34.0
1.4	87.5°	1.4	5.8	11.6	16.6	13.7	21.0	21.0	25.3	16.6
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3905.0
3808.1
3824.0
3777.8
3714.2
3636.2
3544.4
3434.5
3287.9
3145.5
2967.0
2808.0
2620.2
2439.5
2240.1
2084.0
1889.6
1718.4
1548.5
1384.5
1228.4
1079.6
930.0
799.2
681.4
569.4
478.4
404.7
335.3
264.5
187.2
132.2
86.0
54.2
31.1
14.5
0.0

(END OF REPORT)