

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: P638274

Luminaire Tested: **IFLD-S-SA2A-830-U-77-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638274
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-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: 5642.7 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

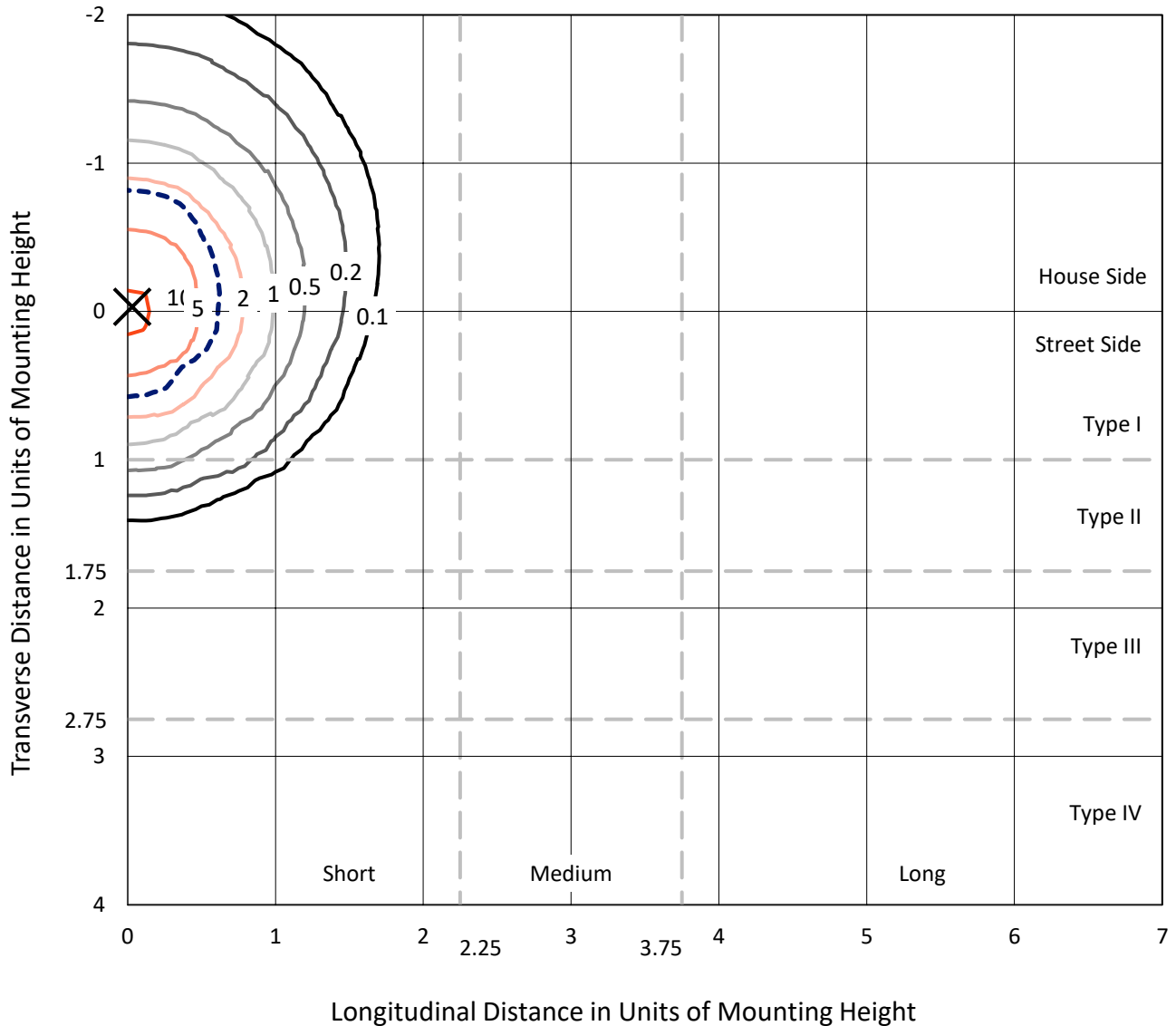
Input Watts (W): 63.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

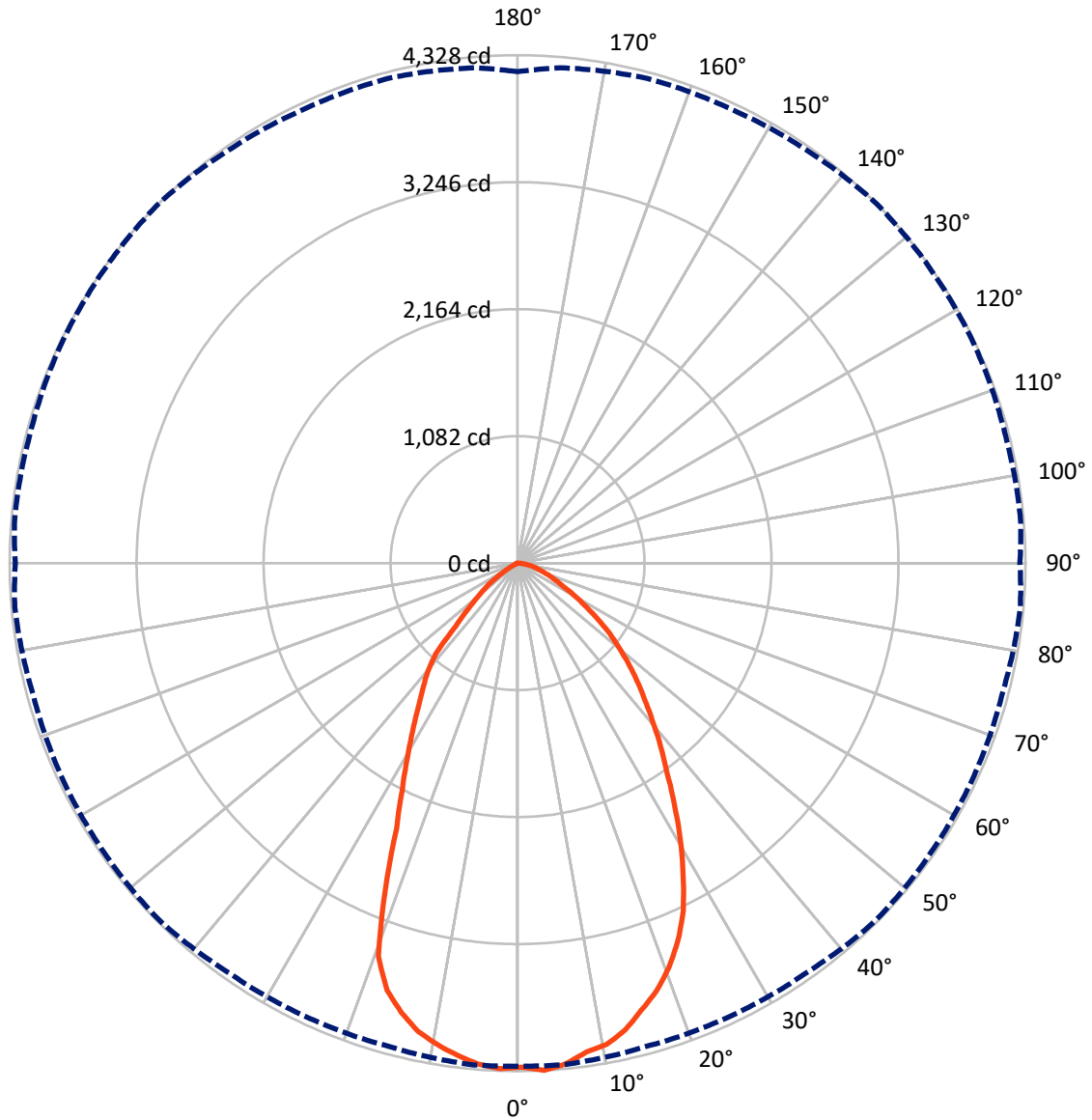
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.7 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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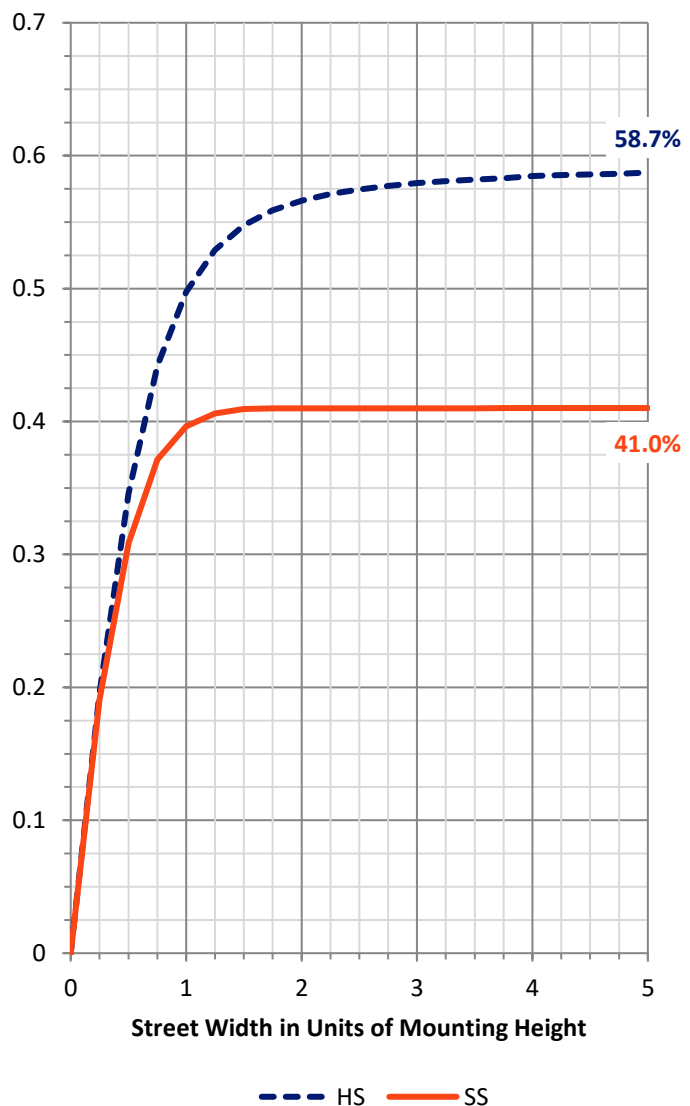
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3341.9	0.0	3341.9
	% Fixture	59.2	0.0	59.2
Street Side	Lumens	2300.8	0.0	2300.8
	% Fixture	40.8	0.0	40.8
Total	Lumens	5642.7	0.0	5642.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.7	7.1
10°-20°	1079.9	19.1
20°-30°	1317.0	23.3
30°-40°	1202.4	21.3
40°-50°	868.9	15.4
50°-60°	474.5	8.4
60°-70°	196.2	3.5
70°-80°	79.5	1.4
80°-90°	21.6	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°	5642.7	100.0
0°-180°	5642.7	100.0



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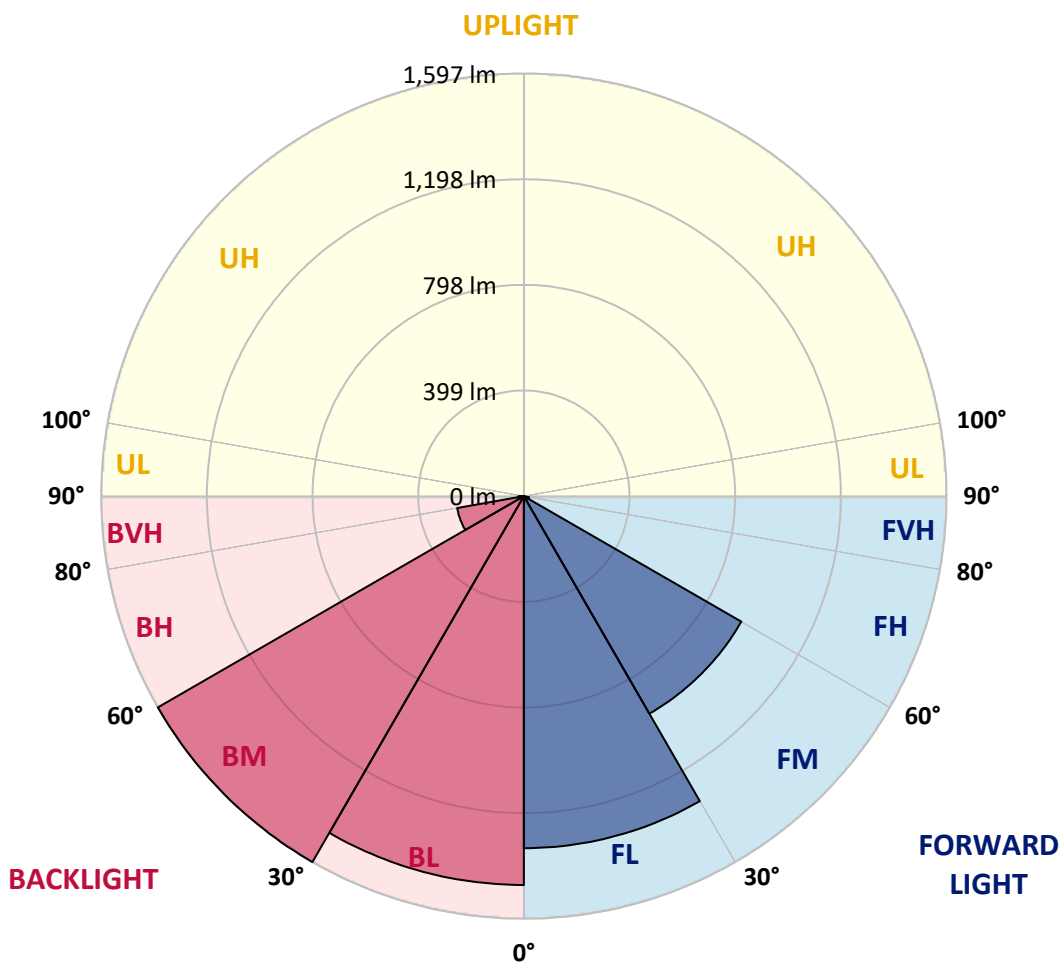
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1330.2	23.6			
FM (30°-60°)	949.0	16.8			
FH (60°-80°)	19.9	0.4			G0/660
FVH (80°-90°)	1.7	0.0			G0/10
BL (0°-30°)	1469.4	26.0	B3/2500		
BM (30°-60°)	1596.8	28.3	B2/2500		
BH (60°-80°)	255.7	4.5	B1/500		G1/500
BVH (80°-90°)	19.9	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°	4294.1	4294.1	4294.1	4294.1	4294.1	4294.1	4294.1	4294.1	4294.1	4294.1
2.5°	4286.1	4291.7	4261.5	4264.7	4270.2	4310.7	4300.4	4290.9	4277.4	4300.4
5°	4280.6	4283.7	4251.9	4240.8	4245.6	4282.1	4248.8	4248.8	4245.6	4241.6
7.5°	4237.6	4239.2	4214.6	4194.7	4207.4	4224.1	4199.5	4211.4	4193.9	4207.4
10°	4173.3	4162.9	4133.5	4128.0	4142.3	4158.2	4141.5	4152.6	4136.7	4147.1
12.5°	4078.7	4062.8	4039.0	4031.8	4056.5	4077.9	4064.4	4058.1	4037.4	4062.8
15°	3714.0	3702.1	3756.1	3850.7	3935.7	3954.0	3939.7	3946.0	3903.1	3910.3
17.5°	3056.9	3034.6	3092.6	3316.7	3636.1	3804.6	3791.9	3750.5	3687.0	3701.3
20°	2777.9	2771.6	2765.2	2818.5	3041.8	3552.7	3570.2	3465.3	3374.7	3354.8
22.5°	2620.6	2618.2	2611.9	2623.8	2682.6	3010.8	3211.0	3114.1	3053.7	3048.1
25°	2476.8	2472.8	2453.7	2468.8	2468.8	2487.9	2744.6	2803.4	2750.1	2743.8
27.5°	2330.6	2323.4	2320.3	2327.4	2290.9	2162.1	2227.3	2514.1	2486.3	2487.9
30°	2172.5	2170.1	2161.3	2176.4	2063.6	1903.9	1862.6	2251.9	2257.5	2255.9
32.5°	1937.3	1947.6	1987.3	2004.0	1818.1	1686.2	1617.0	1948.4	2062.0	2059.6
35°	1407.2	1407.2	1536.8	1777.5	1593.2	1493.9	1456.5	1652.0	1868.9	1876.9
37.5°	1156.9	1160.9	1186.3	1296.0	1374.7	1339.7	1328.6	1390.6	1621.0	1633.7
40°	1040.9	1040.9	1040.9	995.6	993.3	1207.0	1200.7	1180.8	1400.1	1427.9
42.5°	935.3	937.6	939.2	824.8	761.2	1043.3	1029.0	998.8	1202.2	1234.8
45°	826.4	830.4	835.1	689.7	661.9	750.9	870.9	837.5	1006.8	1048.9
47.5°	504.6	510.9	619.0	584.8	588.0	579.3	710.4	704.8	825.6	885.2
50°	340.9	343.3	353.6	371.1	504.6	455.3	503.0	583.2	626.9	717.5
52.5°	286.1	290.0	264.6	240.8	331.4	356.0	351.2	433.1	450.5	562.6
55°	201.0	213.7	201.8	199.4	188.3	276.5	266.2	332.9	344.1	427.5
57.5°	20.7	23.8	41.3	148.6	123.2	156.5	189.9	243.9	255.1	315.5
60°	1.6	1.6	4.0	20.7	89.8	93.8	131.1	150.2	171.6	220.1
62.5°	0.0	0.8	1.6	3.2	14.3	50.1	66.0	78.7	103.3	142.2
65°	0.0	0.0	0.8	2.4	3.2	19.1	25.4	41.3	56.4	88.2
67.5°	0.0	0.0	0.8	1.6	2.4	4.8	8.7	15.1	30.2	50.1
70°	0.0	0.0	0.8	1.6	2.4	4.0	6.4	9.5	13.5	27.0
72.5°	0.0	0.0	0.8	0.8	1.6	4.0	4.8	6.4	9.5	13.5
75°	0.0	0.0	0.8	0.8	2.4	4.8	4.0	4.8	6.4	8.7
77.5°	0.0	0.0	0.8	1.6	2.4	4.8	4.0	4.8	4.8	5.6
80°	0.0	0.0	0.8	1.6	3.2	5.6	4.8	4.8	4.0	4.0
82.5°	0.0	0.0	0.8	2.4	3.2	7.2	7.2	6.4	3.2	2.4
85°	0.0	0.0	1.6	3.2	4.8	7.9	7.9	6.4	2.4	1.6
87.5°	0.0	0.0	1.6	2.4	4.0	5.6	7.9	6.4	2.4	0.8
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°
4294.1	0°	4294.1	4294.1	4294.1	4294.1	4294.1	4294.1	4294.1	4294.1	4294.1
4280.6	2.5°	4302.0	4297.2	4313.1	4319.5	4328.2	4294.9	4274.2	4275.0	4236.8
4232.1	5°	4257.5	4258.3	4279.0	4277.4	4286.1	4267.8	4259.9	4246.4	4213.0
4170.9	7.5°	4201.1	4193.9	4213.8	4228.9	4206.7	4219.4	4201.1	4207.4	4187.6
4116.9	10°	4157.4	4140.7	4159.0	4169.3	4170.1	4157.4	4139.9	4123.2	4116.1
4032.6	12.5°	4060.4	4039.0	4070.0	4084.3	4081.9	4057.3	4037.4	4041.4	4018.3
3884.8	15°	3926.9	3927.7	3950.0	3963.5	3950.8	3945.2	3946.8	3937.3	3917.4
3680.6	17.5°	3722.7	3734.7	3793.5	3826.0	3833.2	3822.1	3816.5	3805.4	3785.5
3354.8	20°	3382.6	3454.2	3559.0	3660.0	3679.8	3676.6	3656.8	3652.0	3640.9
3032.2	22.5°	3083.9	3137.1	3258.7	3416.0	3497.1	3505.0	3481.2	3474.0	3462.1
2743.8	25°	2774.8	2832.0	2941.6	3112.5	3280.1	3314.3	3310.3	3288.9	3276.2
2487.9	27.5°	2514.1	2571.3	2670.7	2824.8	3004.4	3114.1	3124.4	3090.2	3089.4
2259.9	30°	2278.9	2357.6	2433.1	2558.6	2732.7	2897.1	2914.6	2890.8	2893.2
2050.9	32.5°	2094.6	2159.7	2224.1	2308.3	2453.0	2644.5	2712.8	2690.5	2681.8
1876.9	35°	1906.3	1950.8	2016.7	2093.8	2192.3	2382.2	2500.6	2483.9	2475.2
1641.7	37.5°	1691.7	1768.0	1815.7	1902.3	1979.4	2130.3	2297.2	2294.8	2276.6
1441.4	40°	1471.6	1551.9	1624.2	1711.6	1771.2	1891.2	2076.3	2075.5	2077.9
1234.0	42.5°	1272.2	1346.1	1433.5	1528.8	1586.0	1673.4	1872.1	1883.2	1896.7
1063.2	45°	1091.8	1158.5	1239.6	1355.6	1424.7	1474.8	1651.2	1702.0	1701.3
910.6	47.5°	929.7	992.5	1060.8	1173.6	1261.8	1307.1	1453.3	1525.6	1520.9
746.9	50°	780.3	835.9	907.4	989.3	1107.7	1147.4	1256.3	1351.6	1344.5
595.2	52.5°	627.7	704.8	765.2	839.9	964.7	1003.6	1087.8	1180.8	1175.2
446.6	55°	489.5	564.2	637.3	701.6	806.5	864.5	924.9	1020.3	1018.7
349.6	57.5°	370.3	452.1	521.3	582.4	665.9	737.4	785.9	872.5	883.6
239.2	60°	274.1	336.9	411.6	479.9	545.9	619.8	652.4	737.4	742.2
163.7	62.5°	186.7	255.9	329.0	390.9	440.2	516.5	545.9	615.8	624.6
104.9	65°	129.5	174.0	257.5	302.0	362.3	427.5	456.9	512.5	530.0
60.4	67.5°	85.8	124.0	201.0	241.6	301.2	345.7	383.0	428.3	447.4
38.1	70°	46.9	91.4	143.8	190.7	242.4	285.3	321.8	358.4	375.1
17.5	72.5°	31.8	61.2	100.1	151.0	195.5	237.6	270.2	297.2	298.0
10.3	75°	15.9	41.3	76.3	116.8	152.6	193.9	223.3	239.2	220.1
6.4	77.5°	9.5	30.2	62.0	93.8	124.0	156.5	173.2	182.0	151.0
4.8	80°	5.6	21.5	48.5	74.7	85.8	115.2	131.1	133.5	100.9
3.2	82.5°	4.0	15.9	38.1	54.8	52.4	81.0	98.5	95.4	64.4
2.4	85°	2.4	11.1	23.8	34.2	31.8	53.2	57.2	58.8	37.3
1.6	87.5°	1.6	6.4	12.7	18.3	15.1	23.0	23.0	27.8	18.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
4294.1
4187.6
4205.1
4154.2
4084.3
3998.5
3897.5
3776.8
3615.5
3458.9
3262.7
3087.8
2881.2
2682.6
2463.3
2291.6
2077.9
1889.6
1702.8
1522.5
1350.8
1187.1
1022.7
878.8
749.3
626.2
526.0
445.0
368.7
290.8
205.8
145.4
94.6
59.6
34.2
15.9
0.0

(END OF REPORT)