

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: P636766

Luminaire Tested: **IFLD-S-SA2A-935-U-77-VI**

Issue Date: 01/17/2023

**Test Information**

Test Method: LM-79-08  
Report Number: P636766  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 01/17/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2A-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: 4715.2 lumens  
Efficiency: N/A  
Efficacy: 73.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

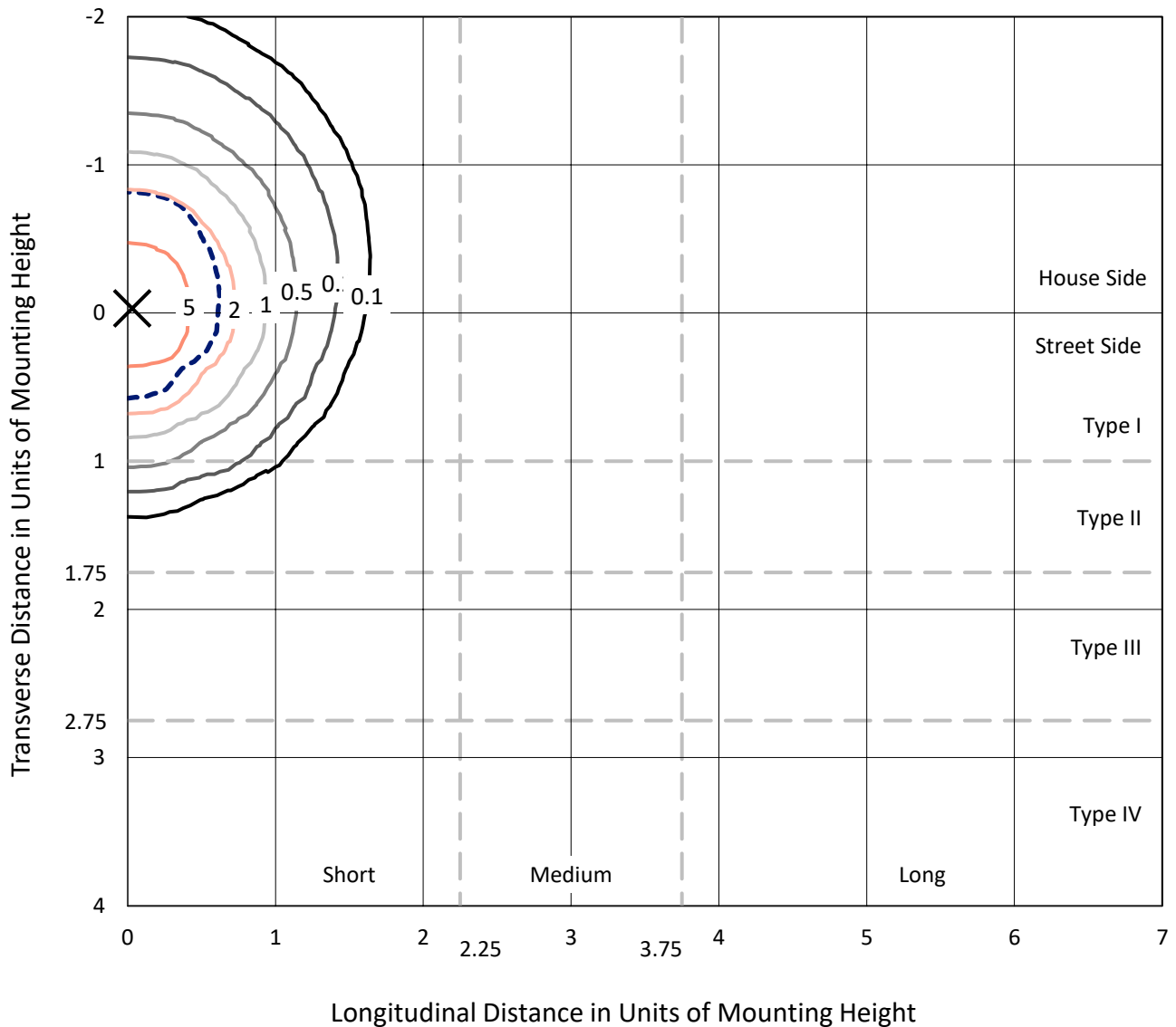
Input Watts (W): 63.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

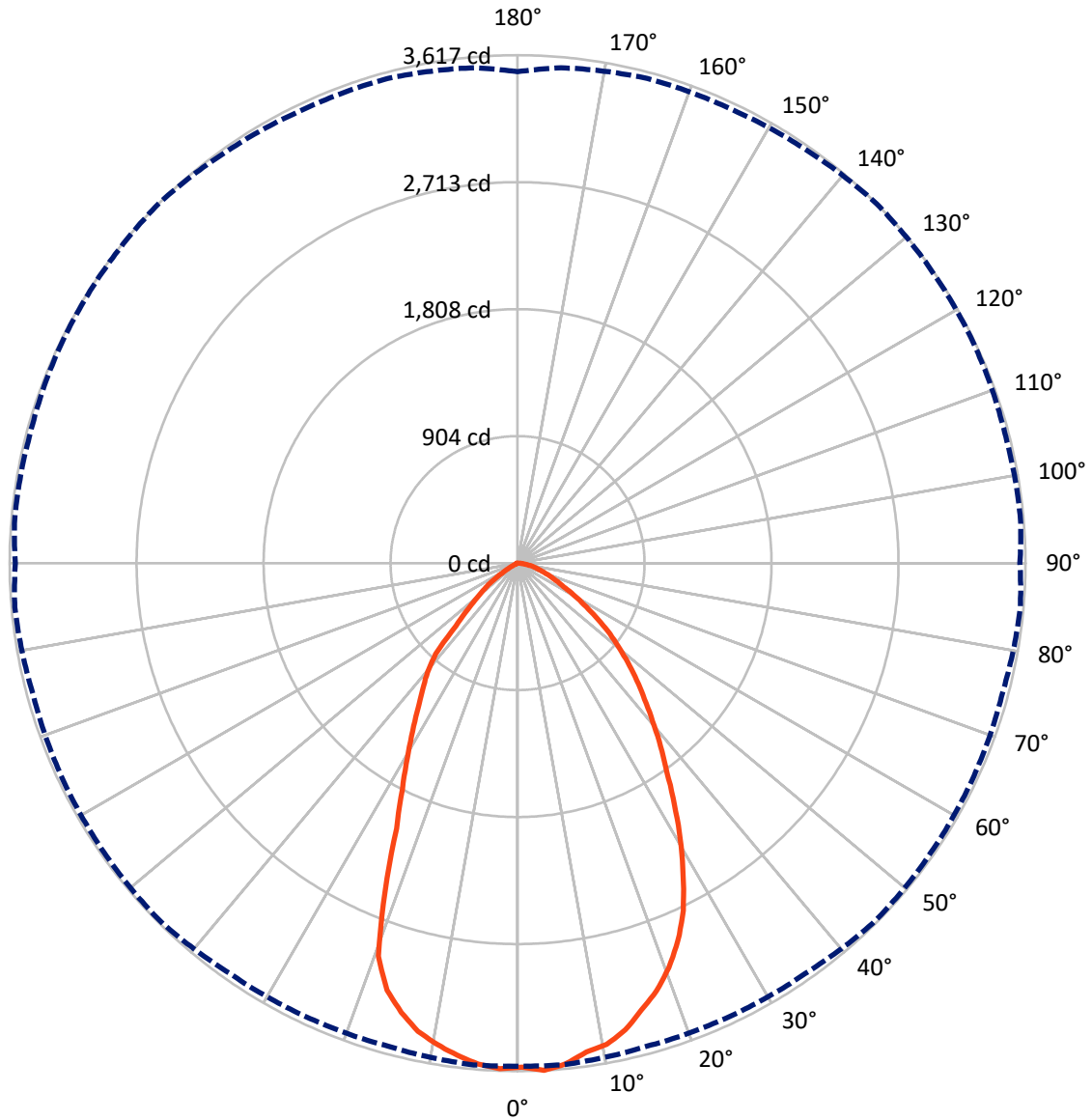
× Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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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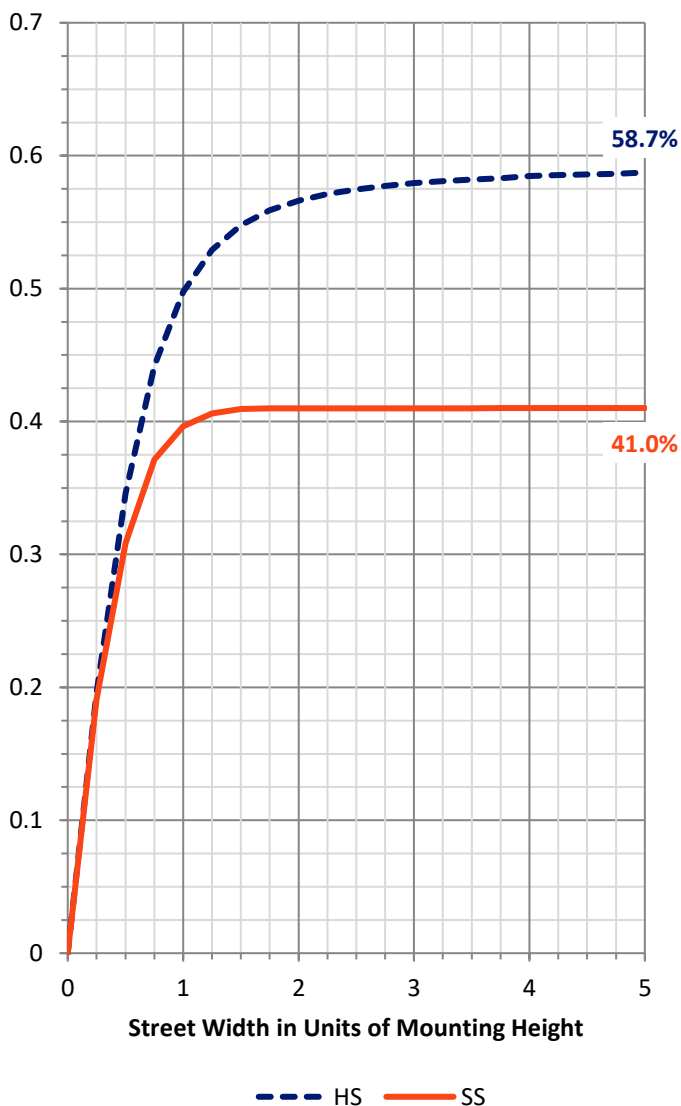
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2792.6	0.0	2792.6
	% Fixture	59.2	0.0	59.2
<b>Street Side</b>	Lumens	1922.6	0.0	1922.6
	% Fixture	40.8	0.0	40.8
<b>Total</b>	Lumens	4715.2	0.0	4715.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	336.5	7.1
10°-20°	902.4	19.1
20°-30°	1100.5	23.3
30°-40°	1004.8	21.3
40°-50°	726.1	15.4
50°-60°	396.5	8.4
60°-70°	163.9	3.5
70°-80°	66.4	1.4
80°-90°	18.1	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°	4715.2	100.0
0°-180°	4715.2	100.0



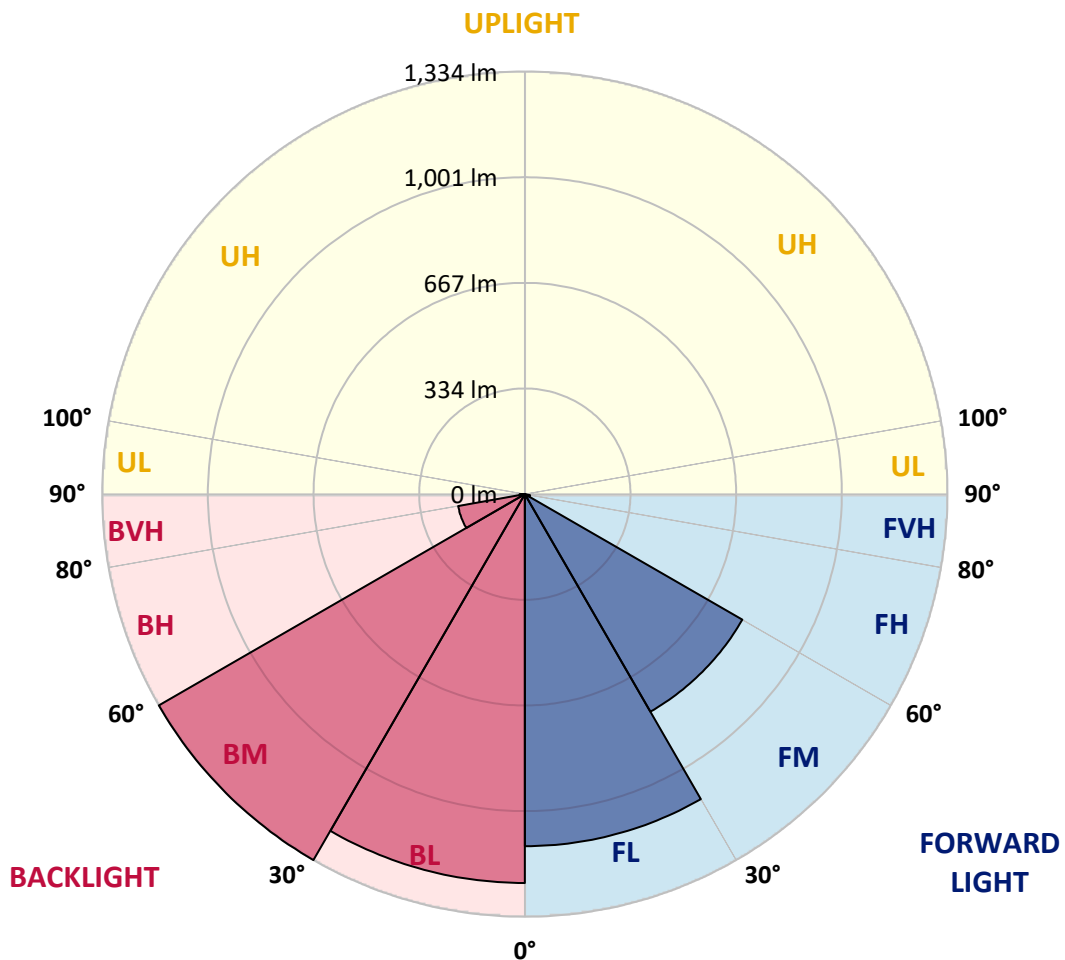
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1111.6	23.6			
FM (30°-60°)	793.0	16.8			
FH (60°-80°)	16.6	0.4			G0/660
FVH (80°-90°)	1.4	0.0			G0/10
BL (0°-30°)	1227.9	26.0	B3/2500		
BM (30°-60°)	1334.4	28.3	B2/2500		
BH (60°-80°)	213.7	4.5	B1/500		G1/500
BVH (80°-90°)	16.6	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°	3588.3	3588.3	3588.3	3588.3	3588.3	3588.3	3588.3	3588.3	3588.3	3588.3
2.5°	3581.6	3586.3	3561.1	3563.7	3568.4	3602.2	3593.6	3585.6	3574.3	3593.6
5°	3577.0	3579.7	3553.1	3543.8	3547.8	3578.3	3550.4	3550.4	3547.8	3544.5
7.5°	3541.1	3542.5	3521.9	3505.3	3515.9	3529.9	3509.3	3519.2	3504.6	3515.9
10°	3487.4	3478.7	3454.2	3449.5	3461.5	3474.7	3460.8	3470.1	3456.8	3465.4
12.5°	3408.3	3395.1	3375.1	3369.2	3389.8	3407.7	3396.4	3391.1	3373.8	3395.1
15°	3103.6	3093.6	3138.8	3217.8	3288.8	3304.1	3292.1	3297.5	3261.6	3267.6
17.5°	2554.4	2535.8	2584.3	2771.6	3038.5	3179.3	3168.6	3134.1	3081.0	3092.9
20°	2321.4	2316.1	2310.7	2355.2	2541.8	2968.8	2983.4	2895.7	2820.0	2803.4
22.5°	2189.9	2187.9	2182.6	2192.5	2241.7	2515.9	2683.2	2602.2	2551.8	2547.1
25°	2069.7	2066.4	2050.5	2063.1	2063.1	2079.0	2293.5	2342.6	2298.1	2292.8
27.5°	1947.5	1941.6	1938.9	1944.9	1914.3	1806.8	1861.2	2100.9	2077.7	2079.0
30°	1815.4	1813.4	1806.1	1818.7	1724.4	1591.0	1556.4	1881.8	1886.4	1885.1
32.5°	1618.8	1627.5	1660.7	1674.6	1519.2	1409.0	1351.3	1628.1	1723.1	1721.1
35°	1176.0	1176.0	1284.2	1485.4	1331.3	1248.3	1217.1	1380.5	1561.7	1568.4
37.5°	966.8	970.1	991.4	1083.0	1148.7	1119.5	1110.2	1162.0	1354.6	1365.2
40°	869.8	869.8	869.8	832.0	830.0	1008.6	1003.3	986.7	1170.0	1193.2
42.5°	781.5	783.5	784.9	689.2	636.1	871.8	859.9	834.7	1004.6	1031.9
45°	690.6	693.9	697.9	576.4	553.1	627.5	727.8	699.9	841.3	876.5
47.5°	421.6	427.0	517.3	488.7	491.4	484.1	593.6	589.0	689.9	739.7
50°	284.9	286.9	295.5	310.1	421.6	380.5	420.3	487.4	523.9	599.6
52.5°	239.0	242.4	221.1	201.2	276.9	297.5	293.5	361.9	376.5	470.1
55°	168.0	178.6	168.7	166.7	157.4	231.1	222.4	278.2	287.5	357.2
57.5°	17.3	19.9	34.5	124.2	102.9	130.8	158.7	203.8	213.1	263.6
60°	1.3	1.3	3.3	17.3	75.0	78.4	109.6	125.5	143.4	183.9
62.5°	0.0	0.7	1.3	2.7	12.0	41.8	55.1	65.7	86.3	118.9
65°	0.0	0.0	0.7	2.0	2.7	15.9	21.2	34.5	47.1	73.7
67.5°	0.0	0.0	0.7	1.3	2.0	4.0	7.3	12.6	25.2	41.8
70°	0.0	0.0	0.7	1.3	2.0	3.3	5.3	8.0	11.3	22.6
72.5°	0.0	0.0	0.7	0.7	1.3	3.3	4.0	5.3	8.0	11.3
75°	0.0	0.0	0.7	0.7	2.0	4.0	3.3	4.0	5.3	7.3
77.5°	0.0	0.0	0.7	1.3	2.0	4.0	3.3	4.0	4.0	4.6
80°	0.0	0.0	0.7	1.3	2.7	4.6	4.0	4.0	3.3	3.3
82.5°	0.0	0.0	0.7	2.0	2.7	6.0	6.0	5.3	2.7	2.0
85°	0.0	0.0	1.3	2.7	4.0	6.6	6.6	5.3	2.0	1.3
87.5°	0.0	0.0	1.3	2.0	3.3	4.6	6.6	5.3	2.0	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°
3588.3	0°	3588.3	3588.3	3588.3	3588.3	3588.3	3588.3	3588.3	3588.3	3588.3
3577.0	2.5°	3594.9	3590.9	3604.2	3609.5	3616.8	3589.0	3571.7	3572.4	3540.5
3536.5	5°	3557.7	3558.4	3575.7	3574.3	3581.6	3566.4	3559.7	3548.4	3520.6
3485.4	7.5°	3510.6	3504.6	3521.2	3533.8	3515.2	3525.9	3510.6	3515.9	3499.3
3440.2	10°	3474.1	3460.1	3475.4	3484.0	3484.7	3474.1	3459.5	3445.5	3439.6
3369.8	12.5°	3393.1	3375.1	3401.0	3413.0	3411.0	3390.4	3373.8	3377.1	3357.9
3246.3	15°	3281.5	3282.2	3300.8	3312.1	3301.4	3296.8	3298.1	3290.2	3273.6
3075.7	17.5°	3110.9	3120.8	3170.0	3197.2	3203.2	3193.9	3189.2	3179.9	3163.3
2803.4	20°	2826.7	2886.4	2974.1	3058.4	3075.0	3072.4	3055.8	3051.8	3042.5
2533.8	22.5°	2577.0	2621.5	2723.1	2854.6	2922.3	2928.9	2909.0	2903.0	2893.1
2292.8	25°	2318.7	2366.5	2458.2	2600.9	2741.0	2769.6	2766.2	2748.3	2737.7
2079.0	27.5°	2100.9	2148.7	2231.7	2360.5	2510.6	2602.2	2610.9	2582.3	2581.7
1888.4	30°	1904.4	1970.1	2033.2	2138.1	2283.5	2421.0	2435.6	2415.7	2417.6
1713.8	32.5°	1750.3	1804.8	1858.6	1928.9	2049.8	2209.8	2266.9	2248.3	2241.0
1568.4	35°	1593.0	1630.1	1685.2	1749.7	1832.0	1990.7	2089.6	2075.7	2068.4
1371.8	37.5°	1413.7	1477.4	1517.3	1589.6	1654.0	1780.2	1919.6	1917.6	1902.4
1204.5	40°	1229.7	1296.8	1357.2	1430.3	1480.1	1580.3	1735.0	1734.4	1736.4
1031.2	42.5°	1063.1	1124.8	1197.9	1277.5	1325.4	1398.4	1564.4	1573.7	1585.0
888.4	45°	912.3	968.1	1035.8	1132.8	1190.6	1232.4	1379.8	1422.3	1421.6
761.0	47.5°	776.9	829.3	886.4	980.7	1054.4	1092.3	1214.5	1274.9	1270.9
624.2	50°	652.1	698.5	758.3	826.7	925.6	958.8	1049.8	1129.5	1123.5
497.3	52.5°	524.6	589.0	639.4	701.9	806.1	838.6	909.0	986.7	982.1
373.2	55°	409.0	471.4	532.5	586.3	674.0	722.4	772.9	852.6	851.3
292.2	57.5°	309.4	377.8	435.6	486.7	556.4	616.2	656.7	729.1	738.4
199.9	60°	229.1	281.5	344.0	401.1	456.2	517.9	545.1	616.2	620.2
136.8	62.5°	156.0	213.8	274.9	326.7	367.9	431.6	456.2	514.6	521.9
87.6	65°	108.2	145.4	215.1	252.3	302.8	357.2	381.8	428.3	442.9
50.5	67.5°	71.7	103.6	168.0	201.9	251.7	288.8	320.1	357.9	373.8
31.9	70°	39.2	76.4	120.2	159.4	202.5	238.4	268.9	299.5	313.4
14.6	72.5°	26.6	51.1	83.7	126.2	163.3	198.5	225.8	248.3	249.0
8.6	75°	13.3	34.5	63.7	97.6	127.5	162.0	186.6	199.9	183.9
5.3	77.5°	8.0	25.2	51.8	78.4	103.6	130.8	144.8	152.1	126.2
4.0	80°	4.6	17.9	40.5	62.4	71.7	96.3	109.6	111.6	84.3
2.7	82.5°	3.3	13.3	31.9	45.8	43.8	67.7	82.3	79.7	53.8
2.0	85°	2.0	9.3	19.9	28.6	26.6	44.5	47.8	49.1	31.2
1.3	87.5°	1.3	5.3	10.6	15.3	12.6	19.3	19.3	23.2	15.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





180°
3588.3
3499.3
3513.9
3471.4
3413.0
3341.3
3257.0
3156.0
3021.2
2890.4
2726.4
2580.3
2407.7
2241.7
2058.4
1915.0
1736.4
1579.0
1423.0
1272.2
1128.8
992.0
854.6
734.4
626.2
523.2
439.6
371.8
308.1
243.0
172.0
121.5
79.0
49.8
28.6
13.3
0.0

(END OF REPORT)