

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: P636858

Luminaire Tested: **IFLD-S-SA3A-927-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P636858
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-927-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2700K CCT, 90 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6420 lumens
Efficiency: N/A
Efficacy: 67.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

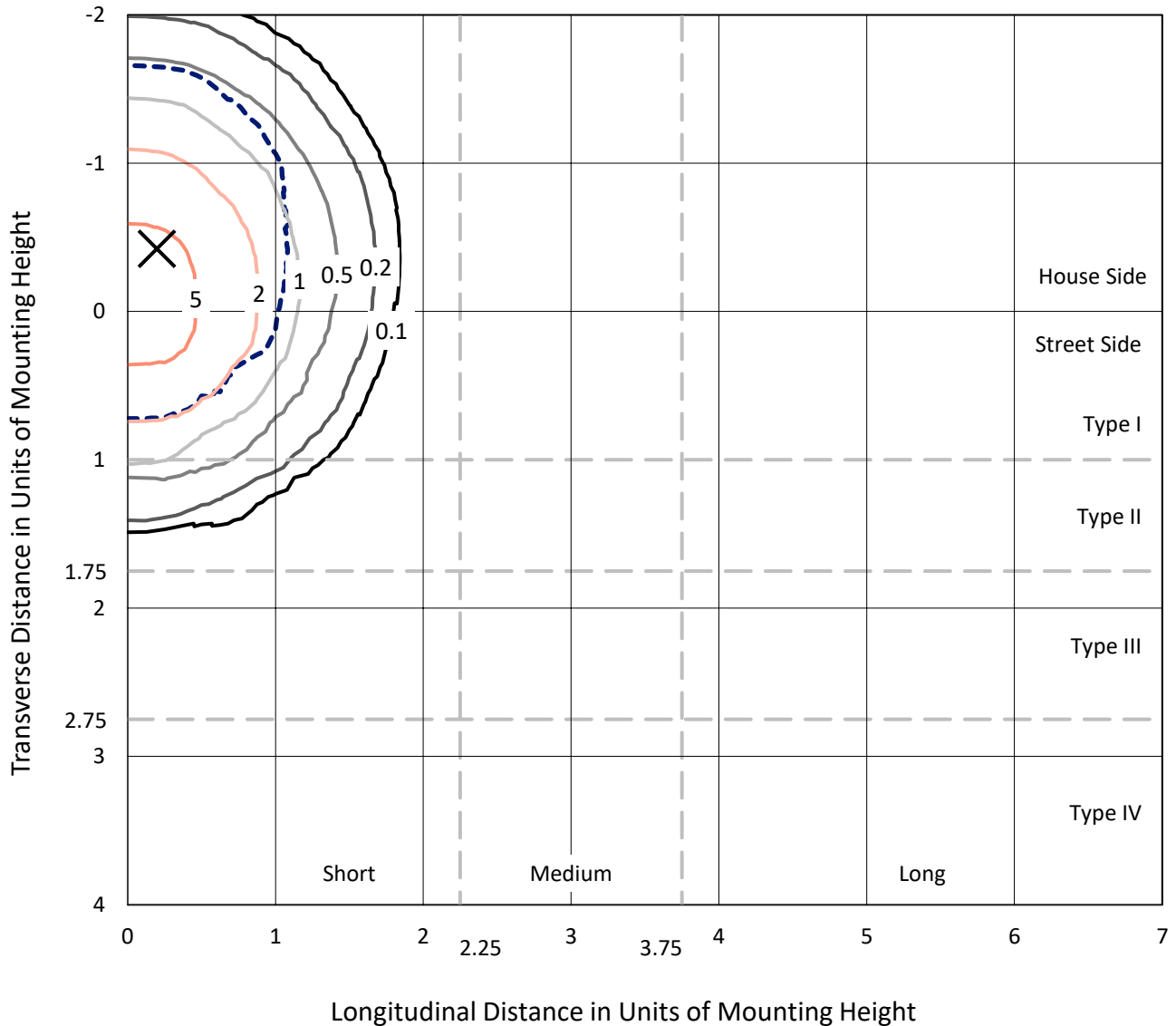
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

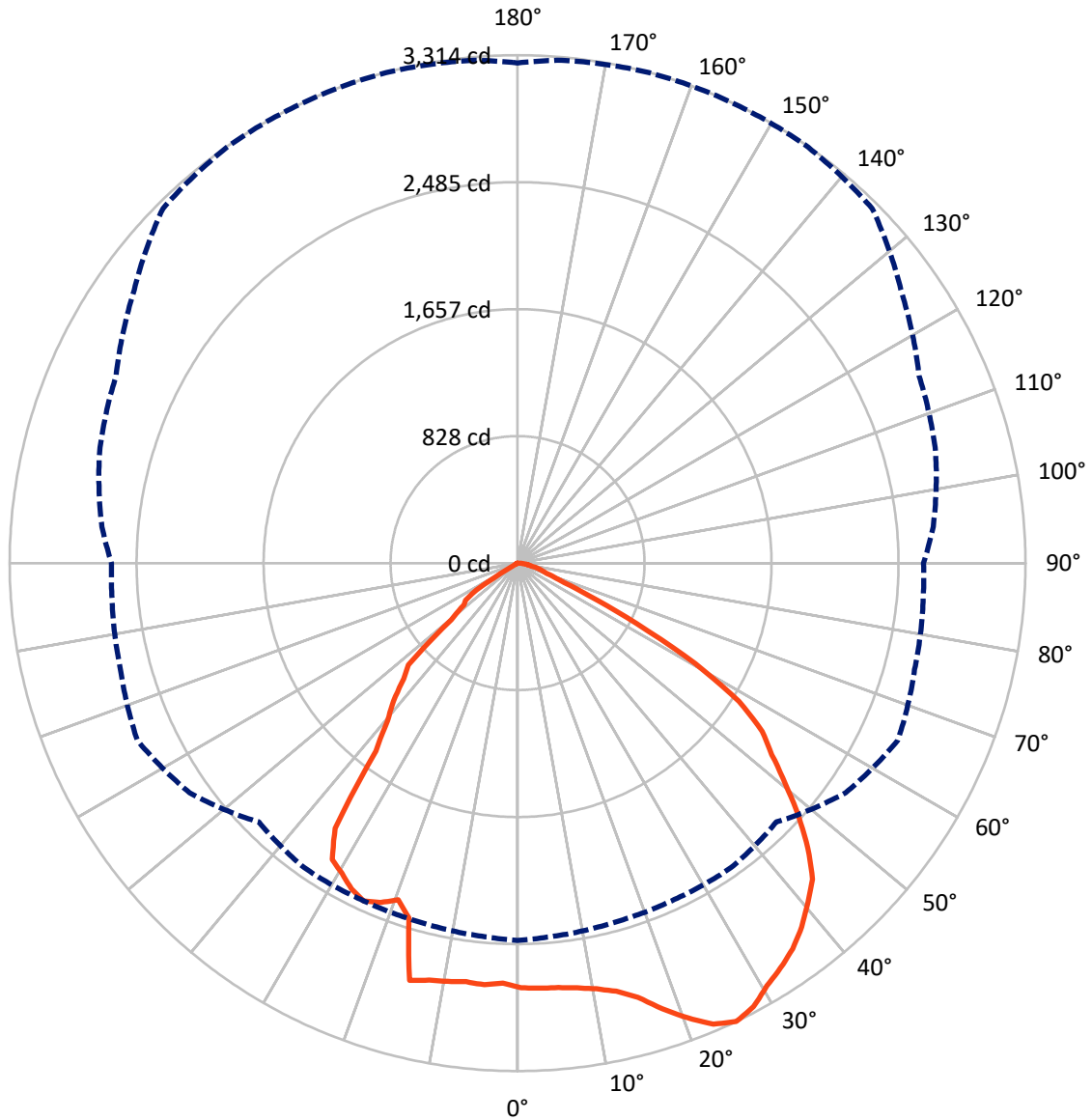
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 155-Deg Lateral - - - Horizontal Cone Through 25-Deg Vertical

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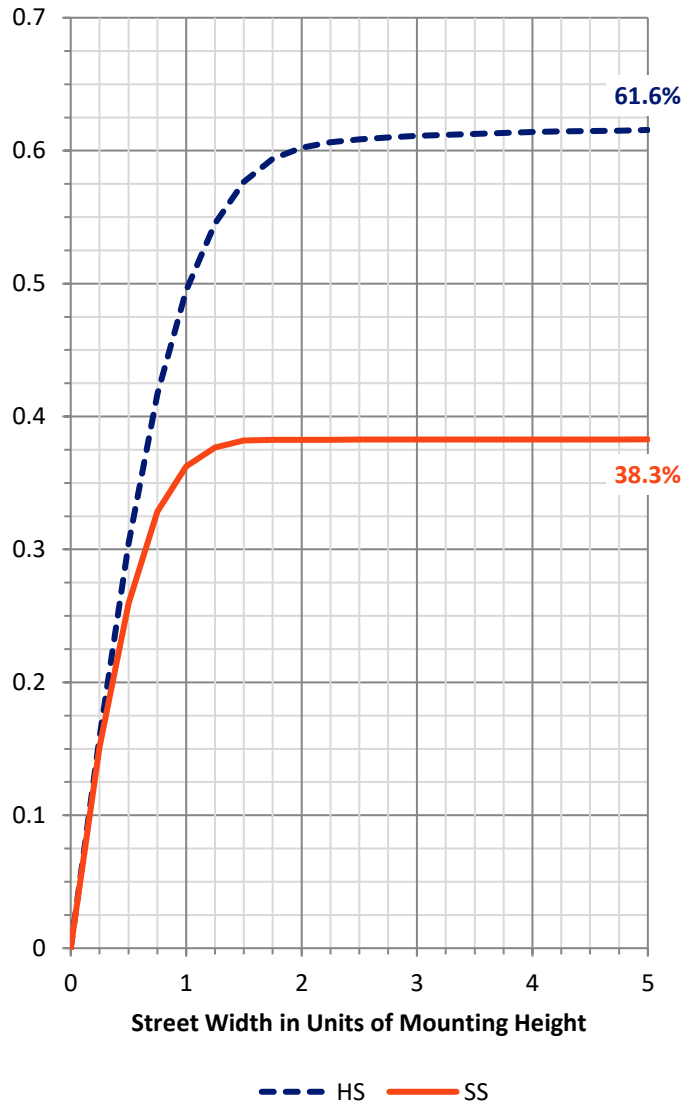
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3974.6	0.0	3974.6
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2445.3	0.0	2445.3
	% Fixture	38.1	0.0	38.1
Total	Lumens	6420.0	0.0	6420.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.8	4.1
10°-20°	811.5	12.6
20°-30°	1282.9	20.0
30°-40°	1449.1	22.6
40°-50°	1357.1	21.1
50°-60°	935.7	14.6
60°-70°	251.4	3.9
70°-80°	52.4	0.8
80°-90°	14.2	0.2
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°	6420.0	100.0
0°-180°	6420.0	100.0



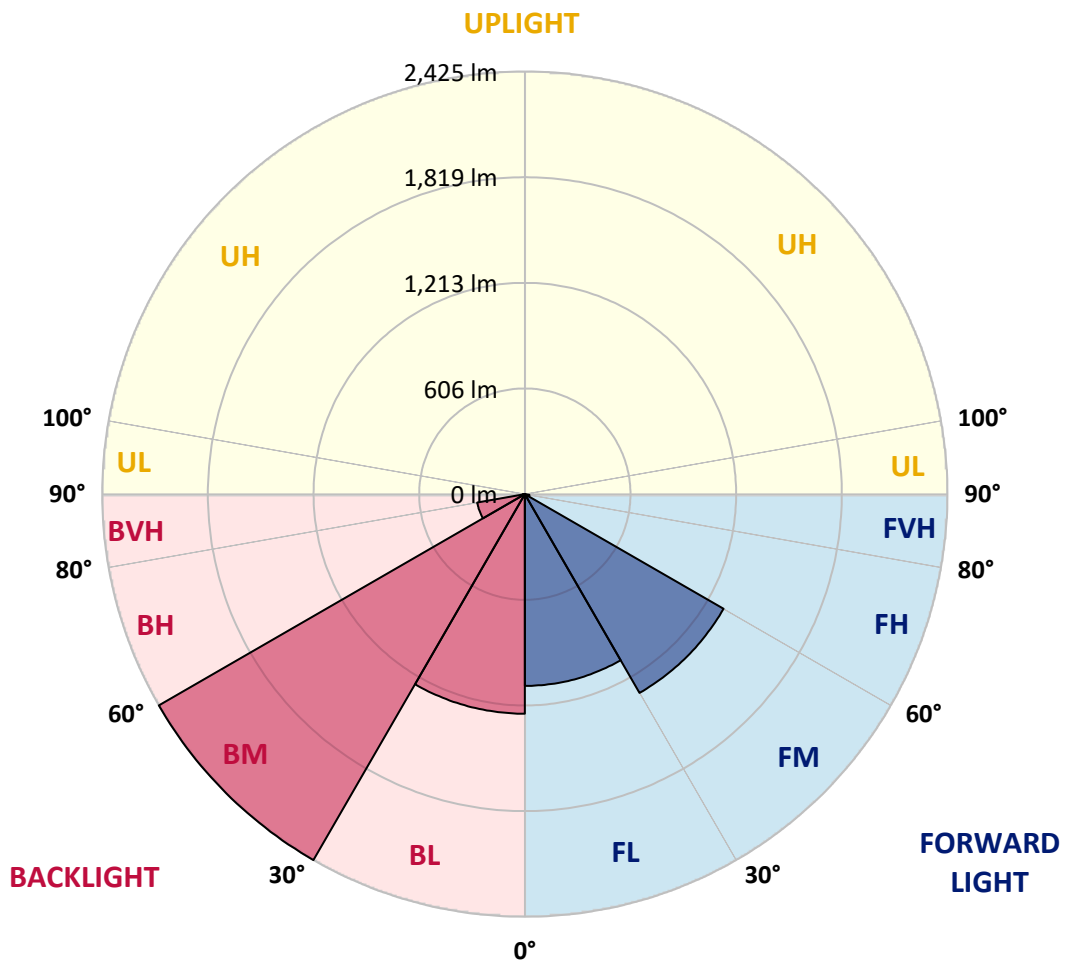
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1100.2	17.1			
FM (30°-60°)	1316.9	20.5			
FH (60°-80°)	26.4	0.4			G0/660
FVH (80°-90°)	1.9	0.0			G0/10
BL (0°-30°)	1259.9	19.6	B3/2500		
BM (30°-60°)	2425.0	37.8	B2/2500		
BH (60°-80°)	277.4	4.3	B1/500		G1/500
BVH (80°-90°)	12.3	0.2			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°	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1
2.5°	2782.4	2764.4	2747.5	2741.8	2765.4	2790.9	2774.8	2775.8	2770.1	2780.5
5°	2803.1	2778.6	2767.3	2758.8	2762.6	2789.0	2766.3	2774.8	2765.4	2777.7
7.5°	2795.6	2778.6	2767.3	2751.2	2763.5	2794.6	2772.9	2773.9	2769.2	2780.5
10°	2790.9	2778.6	2764.4	2766.3	2780.5	2806.9	2789.9	2799.4	2792.7	2799.4
12.5°	2802.2	2789.0	2781.4	2781.4	2793.7	2823.9	2815.4	2823.9	2821.1	2826.7
15°	2695.6	2707.8	2779.5	2811.6	2836.1	2866.3	2862.6	2871.1	2872.9	2881.4
17.5°	2273.8	2261.6	2255.9	2421.0	2859.7	2953.1	2950.3	2949.4	2939.9	2933.3
20°	2329.5	2324.8	2318.2	2330.4	2379.5	2998.4	3017.3	2901.3	2867.3	2864.5
22.5°	2418.2	2410.6	2386.1	2387.0	2402.1	2606.9	2923.9	2818.2	2806.9	2800.3
25°	2461.6	2446.5	2426.7	2421.0	2425.7	2388.0	2611.6	2737.1	2681.4	2655.9
27.5°	2385.2	2386.1	2370.1	2385.2	2367.2	2197.4	2102.1	2578.6	2576.7	2565.4
30°	2327.6	2324.8	2305.9	2324.8	2201.2	2011.5	1971.0	2405.0	2385.2	2370.1
32.5°	2151.2	2153.1	2207.8	2281.4	2078.5	1928.5	1805.9	2148.3	2336.1	2327.6
35°	1538.8	1542.6	1737.0	2100.2	1892.7	1763.4	1754.0	1856.8	2258.7	2262.5
37.5°	1481.3	1481.3	1476.6	1536.0	1746.4	1696.4	1715.3	1704.9	2069.1	2078.5
40°	1439.8	1431.3	1424.7	1331.3	1214.3	1649.2	1662.4	1615.3	1955.9	1957.8
42.5°	1389.8	1380.3	1382.2	1209.6	1086.9	1532.2	1495.4	1432.2	1767.2	1769.1
45°	1298.3	1314.3	1325.6	1058.6	1049.2	1094.5	1379.4	1339.8	1639.8	1674.7
47.5°	660.4	674.6	1035.0	973.7	995.4	972.7	1165.2	1166.2	1364.3	1480.3
50°	599.1	595.3	596.3	568.0	919.0	786.9	842.5	1069.0	1092.6	1258.6
52.5°	558.5	557.6	500.1	444.4	577.4	692.5	611.4	773.7	812.4	1066.2
55°	413.3	443.4	394.4	418.0	361.4	554.8	551.9	698.2	711.4	854.8
57.5°	3.8	4.7	11.3	318.0	250.0	277.4	381.2	476.5	500.1	666.1
60°	0.9	1.9	4.7	9.4	162.3	170.8	254.7	275.5	310.4	397.2
62.5°	0.0	0.0	1.9	4.7	8.5	69.8	81.1	88.7	136.8	202.9
65°	0.0	0.0	0.9	2.8	4.7	11.3	19.8	41.5	59.4	73.6
67.5°	0.0	0.0	0.9	1.9	3.8	5.7	11.3	16.0	25.5	43.4
70°	0.0	0.0	0.9	1.9	2.8	4.7	7.5	11.3	15.1	21.7
72.5°	0.0	0.0	0.9	1.9	1.9	5.7	5.7	8.5	11.3	14.2
75°	0.0	0.0	0.9	0.9	1.9	3.8	5.7	6.6	7.5	11.3
77.5°	0.0	0.0	0.9	1.9	2.8	3.8	4.7	7.5	6.6	6.6
80°	0.0	0.0	0.9	2.8	2.8	4.7	5.7	7.5	4.7	4.7
82.5°	0.0	0.0	0.9	3.8	2.8	9.4	9.4	10.4	3.8	3.8
85°	0.0	0.0	2.8	1.9	5.7	9.4	8.5	5.7	4.7	2.8
87.5°	0.0	0.0	0.9	0.9	1.9	2.8	6.6	5.7	1.9	1.9
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°
2770.1	0°	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1	2770.1
2753.1	2.5°	2790.9	2778.6	2804.1	2801.2	2789.0	2783.3	2776.7	2771.0	2729.5
2755.0	5°	2791.8	2772.9	2804.1	2798.4	2796.5	2787.1	2781.4	2789.9	2752.2
2762.6	7.5°	2791.8	2772.9	2806.9	2808.8	2806.0	2798.4	2797.5	2803.1	2772.0
2775.8	10°	2810.7	2803.1	2831.4	2834.3	2830.5	2828.6	2823.9	2820.1	2787.1
2821.1	12.5°	2850.3	2835.2	2867.3	2875.8	2872.9	2877.7	2866.3	2872.0	2838.0
2867.3	15°	2898.4	2899.4	2923.9	2942.8	2940.9	2956.0	2939.0	2954.1	2929.6
2920.1	17.5°	2972.0	2982.4	3017.3	3045.6	3056.0	3067.3	3056.0	3060.7	3025.8
2861.6	20°	2894.6	2933.3	3101.3	3153.2	3174.9	3185.2	3166.4	3172.0	3137.1
2789.9	22.5°	2824.8	2874.8	3023.9	3186.2	3253.2	3273.9	3267.3	3266.4	3253.2
2648.4	25°	2722.0	2822.9	2889.9	3061.6	3272.0	3309.8	3313.6	3312.6	3292.8
2561.6	27.5°	2595.6	2618.2	2791.8	2896.5	3140.0	3283.4	3277.7	3250.3	3223.9
2381.4	30°	2434.2	2537.1	2615.4	2782.4	2969.2	3202.2	3202.2	3181.5	3154.1
2317.2	32.5°	2352.1	2485.2	2557.8	2618.2	2777.7	3111.6	3149.4	3127.7	3106.0
2267.2	35°	2308.7	2328.5	2498.4	2553.1	2688.0	2937.1	3089.9	3068.2	3052.2
2134.2	37.5°	2213.4	2259.7	2338.9	2485.2	2526.7	2794.6	3010.7	2999.4	2980.5
1961.5	40°	2001.2	2124.8	2246.5	2385.2	2428.6	2611.6	2914.5	2919.2	2893.7
1777.5	42.5°	1875.7	1959.6	2150.2	2243.6	2360.6	2493.7	2821.1	2828.6	2810.7
1684.1	45°	1728.5	1821.9	1955.9	2125.7	2285.1	2331.4	2655.9	2735.2	2720.1
1498.3	47.5°	1593.6	1669.0	1833.2	2004.9	2181.4	2174.8	2466.3	2615.4	2594.6
1355.8	50°	1402.0	1534.1	1611.5	1769.1	2032.3	2050.2	2264.4	2474.8	2457.8
1152.0	52.5°	1182.2	1348.3	1496.4	1640.7	1881.3	1923.8	2076.6	2331.4	2320.1
880.3	55°	1033.1	1153.9	1320.9	1436.9	1698.3	1811.5	1936.1	2194.6	2188.9
723.7	57.5°	735.0	968.0	1105.8	1268.1	1405.8	1610.5	1703.0	1916.2	1863.4
401.0	60°	498.2	607.6	775.6	950.1	1042.6	1247.3	1333.2	1503.9	1489.8
239.6	62.5°	263.2	364.2	484.0	571.8	638.7	837.8	873.7	1057.7	1052.9
96.2	65°	116.1	153.8	262.3	307.6	376.5	468.9	500.1	566.1	550.1
47.2	67.5°	60.4	91.5	148.1	182.1	229.3	264.2	289.7	310.4	323.6
31.1	70°	36.8	67.0	91.5	126.4	157.6	185.9	205.7	234.0	251.0
16.0	72.5°	27.4	42.5	63.2	97.2	114.2	147.2	167.0	187.8	202.9
13.2	75°	15.1	28.3	50.9	76.4	91.5	119.8	137.8	151.9	156.6
7.5	77.5°	9.4	21.7	42.5	59.4	71.7	97.2	92.5	105.7	117.0
5.7	80°	6.6	16.0	33.0	49.1	50.0	62.3	73.6	84.9	92.5
3.8	82.5°	4.7	13.2	24.5	37.7	33.0	48.1	57.6	66.0	48.1
2.8	85°	3.8	9.4	12.3	22.6	18.9	34.0	29.2	28.3	18.9
1.9	87.5°	2.8	4.7	8.5	10.4	7.5	7.5	9.4	11.3	9.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
2770.1
2701.2
2720.1
2736.1
2759.7
2807.8
2889.0
2995.6
3112.6
3210.7
3262.6
3203.2
3143.7
3088.1
3029.6
2961.6
2888.0
2808.8
2722.0
2609.7
2460.6
2327.6
2195.5
1857.7
1490.7
1053.9
543.5
323.6
251.9
205.7
153.8
118.9
93.4
34.9
18.9
9.4
0.0

(END OF REPORT)