

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: P638308

Luminaire Tested: **IFLD-S-SA3A-722-U-LAM-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P638308
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-722-U-LAM-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/
Lambertian distribution lens and Visor
Light Source: (48) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7469.5 lumens
Efficiency: N/A
Efficacy: 78.8 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

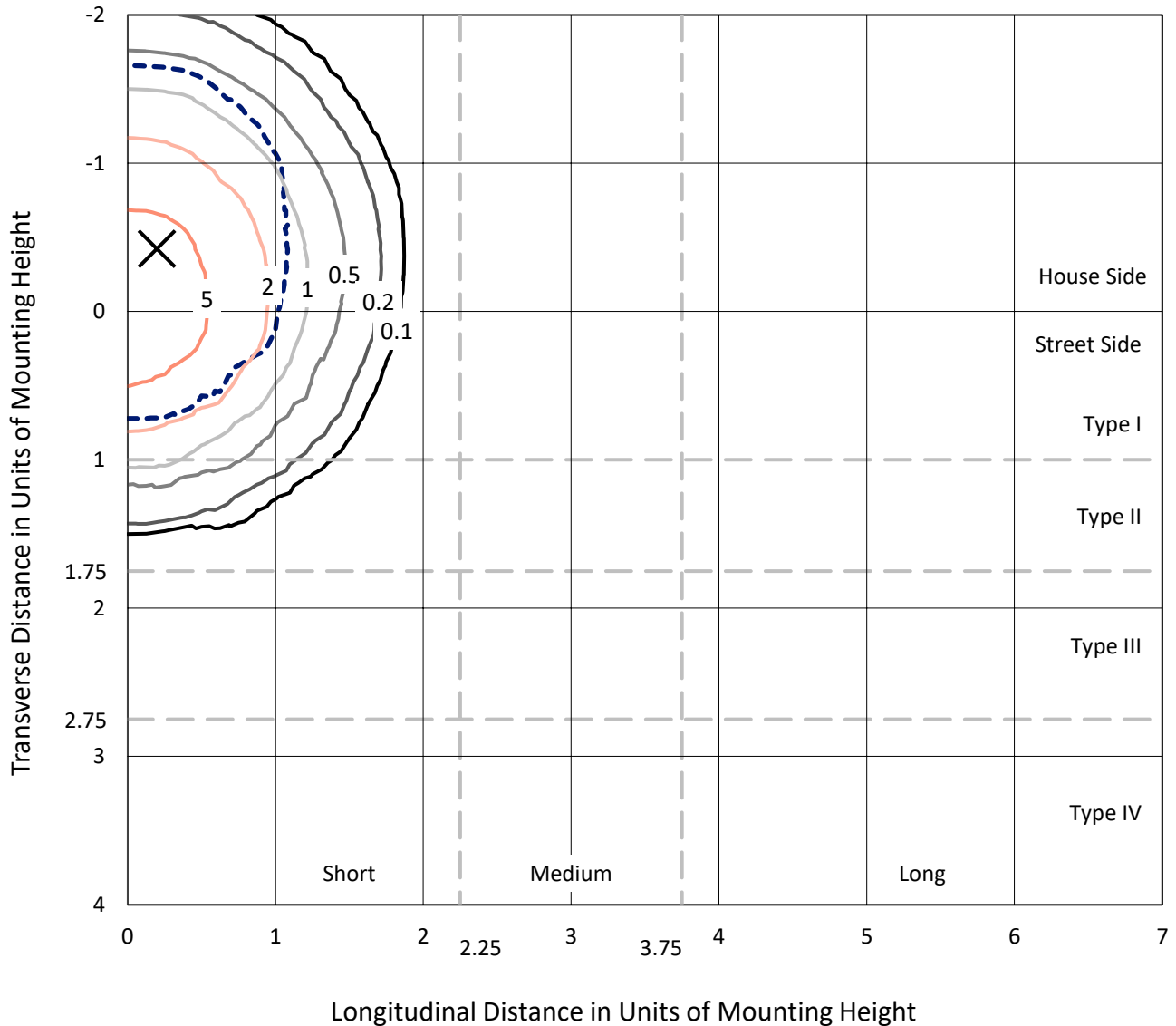
Input Watts (W): 94.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

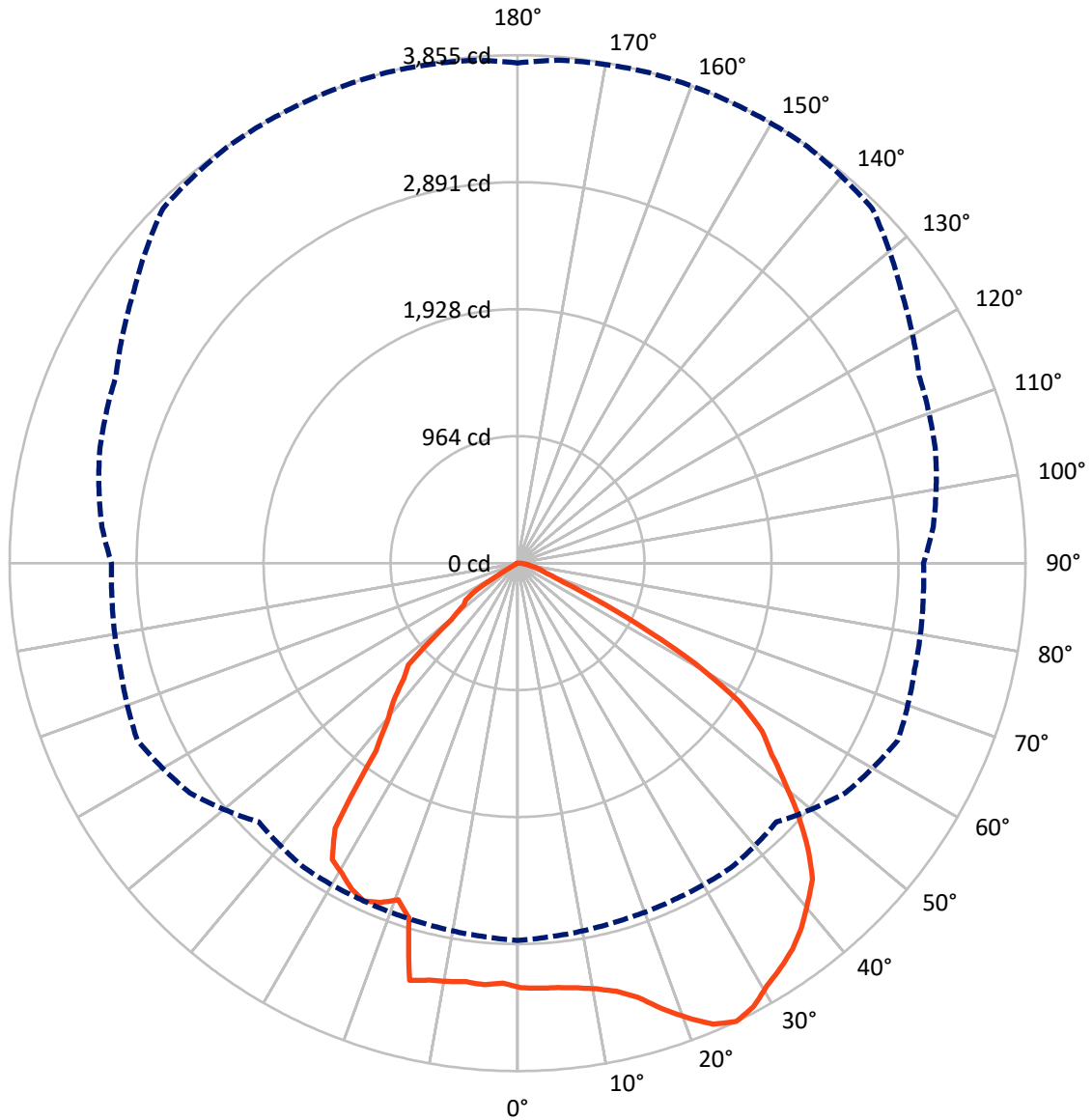
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.1 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	4624.4	0.0	4624.4
	% Fixture	61.9	0.0	61.9
Street Side	Lumens	2845.1	0.0	2845.1
	% Fixture	38.1	0.0	38.1
Total	Lumens	7469.5	0.0	7469.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	309.2	4.1
10°-20°	944.1	12.6
20°-30°	1492.6	20.0
30°-40°	1686.0	22.6
40°-50°	1579.0	21.1
50°-60°	1088.6	14.6
60°-70°	292.5	3.9
70°-80°	61.0	0.8
80°-90°	16.5	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°	7469.5	100.0
0°-180°	7469.5	100.0



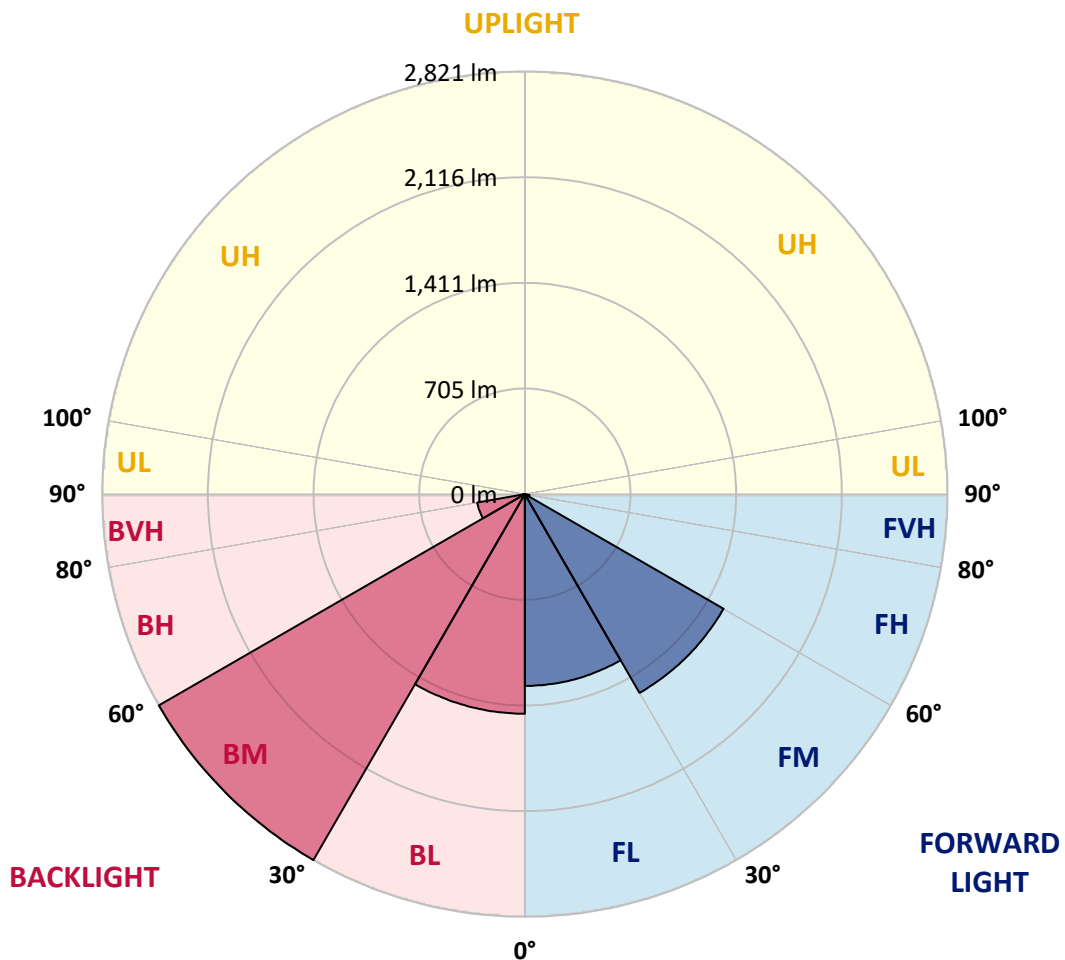
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.0	17.1			
FM (30°-60°)	1532.2	20.5			
FH (60°-80°)	30.7	0.4			G0/660
FVH (80°-90°)	2.2	0.0			G0/10
BL (0°-30°)	1465.9	19.6	B3/2500		
BM (30°-60°)	2821.5	37.8	B3/5000		
BH (60°-80°)	322.7	4.3	B1/500		G1/500
BVH (80°-90°)	14.3	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°	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0
2.5°	3237.2	3216.4	3196.6	3190.0	3217.5	3247.1	3228.5	3229.6	3223.0	3235.0
5°	3261.4	3232.8	3219.7	3209.8	3214.2	3244.9	3218.6	3228.5	3217.5	3231.7
7.5°	3252.6	3232.8	3219.7	3201.0	3215.3	3251.5	3226.3	3227.4	3221.9	3235.0
10°	3247.1	3232.8	3216.4	3218.6	3235.0	3265.8	3246.0	3257.0	3249.3	3257.0
12.5°	3260.3	3244.9	3236.1	3236.1	3250.4	3285.5	3275.7	3285.5	3282.2	3288.8
15°	3136.2	3150.5	3233.9	3271.3	3299.8	3334.9	3330.5	3340.4	3342.6	3352.5
17.5°	2645.6	2631.3	2624.7	2816.8	3327.2	3435.9	3432.6	3431.5	3420.6	3412.9
20°	2710.3	2704.8	2697.1	2711.4	2768.5	3488.6	3510.6	3375.6	3336.0	3332.7
22.5°	2813.5	2804.7	2776.2	2777.3	2794.8	3033.1	3401.9	3278.9	3265.8	3258.1
25°	2864.0	2846.4	2823.4	2816.8	2822.3	2778.4	3038.5	3184.5	3119.8	3090.1
27.5°	2775.1	2776.2	2757.5	2775.1	2754.2	2556.6	2445.8	3000.1	2997.9	2984.8
30°	2708.1	2704.8	2682.9	2704.8	2561.0	2340.4	2293.2	2798.1	2775.1	2757.5
32.5°	2502.8	2505.0	2568.7	2654.3	2418.3	2243.8	2101.1	2499.6	2718.0	2708.1
35°	1790.4	1794.8	2020.9	2443.6	2202.1	2051.7	2040.7	2160.4	2628.0	2632.4
37.5°	1723.5	1723.5	1718.0	1787.1	2031.9	1973.7	1995.7	1983.6	2407.3	2418.3
40°	1675.2	1665.3	1657.6	1548.9	1412.8	1918.8	1934.2	1879.3	2275.6	2277.8
42.5°	1617.0	1606.0	1608.2	1407.3	1264.6	1782.7	1739.9	1666.4	2056.1	2058.3
45°	1510.5	1529.2	1542.3	1231.7	1220.7	1273.4	1604.9	1558.8	1907.9	1948.5
47.5°	768.4	784.9	1204.2	1132.9	1158.1	1131.8	1355.7	1356.8	1587.3	1722.4
50°	697.1	692.7	693.8	660.8	1069.2	915.5	980.3	1243.7	1271.2	1464.4
52.5°	649.9	648.8	581.8	517.0	671.8	805.7	711.3	900.1	945.2	1240.4
55°	480.8	515.9	458.9	486.3	420.4	645.5	642.2	812.3	827.7	994.6
57.5°	4.4	5.5	13.2	369.9	290.9	322.7	443.5	554.4	581.8	775.0
60°	1.1	2.2	5.5	11.0	188.8	198.7	296.4	320.5	361.2	462.1
62.5°	0.0	0.0	2.2	5.5	9.9	81.2	94.4	103.2	159.2	236.0
65°	0.0	0.0	1.1	3.3	5.5	13.2	23.1	48.3	69.2	85.6
67.5°	0.0	0.0	1.1	2.2	4.4	6.6	13.2	18.7	29.6	50.5
70°	0.0	0.0	1.1	2.2	3.3	5.5	8.8	13.2	17.6	25.2
72.5°	0.0	0.0	1.1	2.2	2.2	6.6	6.6	9.9	13.2	16.5
75°	0.0	0.0	1.1	1.1	2.2	4.4	6.6	7.7	8.8	13.2
77.5°	0.0	0.0	1.1	2.2	3.3	4.4	5.5	8.8	7.7	7.7
80°	0.0	0.0	1.1	3.3	3.3	5.5	6.6	8.8	5.5	5.5
82.5°	0.0	0.0	1.1	4.4	3.3	11.0	11.0	12.1	4.4	4.4
85°	0.0	0.0	3.3	2.2	6.6	11.0	9.9	6.6	5.5	3.3
87.5°	0.0	0.0	1.1	1.1	2.2	3.3	7.7	6.6	2.2	2.2
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°
3223.0	0°	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0	3223.0
3203.2	2.5°	3247.1	3232.8	3262.5	3259.2	3244.9	3238.3	3230.6	3224.1	3175.8
3205.4	5°	3248.2	3226.3	3262.5	3255.9	3253.7	3242.7	3236.1	3246.0	3202.1
3214.2	7.5°	3248.2	3226.3	3265.8	3268.0	3264.7	3255.9	3254.8	3261.4	3225.2
3229.6	10°	3270.2	3261.4	3294.3	3297.6	3293.2	3291.0	3285.5	3281.1	3242.7
3282.2	12.5°	3316.3	3298.7	3336.0	3345.9	3342.6	3348.1	3334.9	3341.5	3302.0
3336.0	15°	3372.3	3373.4	3401.9	3423.9	3421.7	3439.2	3419.5	3437.0	3408.5
3397.5	17.5°	3457.9	3470.0	3510.6	3543.5	3555.6	3568.8	3555.6	3561.1	3520.5
3329.4	20°	3367.9	3412.9	3608.3	3668.6	3693.9	3706.0	3684.0	3690.6	3650.0
3246.0	22.5°	3286.6	3344.8	3518.3	3707.1	3785.0	3809.2	3801.5	3800.4	3785.0
3081.4	25°	3167.0	3284.4	3362.4	3562.2	3807.0	3850.9	3855.3	3854.2	3831.1
2980.4	27.5°	3019.9	3046.2	3248.2	3370.1	3653.3	3820.1	3813.5	3781.7	3751.0
2770.7	30°	2832.2	2951.8	3042.9	3237.2	3454.6	3725.7	3725.7	3701.6	3669.7
2696.0	32.5°	2736.7	2891.4	2976.0	3046.2	3231.7	3620.3	3664.3	3639.0	3613.8
2637.9	35°	2686.2	2709.2	2906.8	2970.5	3127.5	3417.3	3595.1	3569.9	3551.2
2483.1	37.5°	2575.3	2629.1	2721.3	2891.4	2939.7	3251.5	3502.9	3489.7	3467.8
2282.2	40°	2328.3	2472.1	2613.7	2775.1	2825.6	3038.5	3390.9	3396.4	3366.8
2068.1	42.5°	2182.3	2280.0	2501.7	2610.4	2746.5	2901.3	3282.2	3291.0	3270.2
1959.5	45°	2011.1	2119.7	2275.6	2473.2	2658.7	2712.5	3090.1	3182.3	3164.8
1743.2	47.5°	1854.1	1941.9	2132.9	2332.7	2538.0	2530.3	2869.5	3042.9	3018.8
1577.5	50°	1631.2	1784.9	1874.9	2058.3	2364.5	2385.4	2634.6	2879.4	2859.6
1340.3	52.5°	1375.5	1568.7	1741.0	1909.0	2188.9	2238.3	2416.1	2712.5	2699.3
1024.2	55°	1202.0	1342.5	1536.8	1671.9	1975.9	2107.7	2252.6	2553.3	2546.8
842.0	57.5°	855.1	1126.3	1286.6	1475.4	1635.6	1873.8	1981.4	2229.5	2168.0
466.5	60°	579.6	706.9	902.3	1105.4	1213.0	1451.2	1551.1	1749.8	1733.3
278.8	62.5°	306.3	423.7	563.1	665.2	743.2	974.8	1016.5	1230.6	1225.1
112.0	65°	135.0	178.9	305.2	357.9	438.0	545.6	581.8	658.6	640.0
54.9	67.5°	70.3	106.5	172.3	211.9	266.8	307.4	337.0	361.2	376.5
36.2	70°	42.8	77.9	106.5	147.1	183.3	216.3	239.3	272.2	292.0
18.7	72.5°	31.8	49.4	73.5	113.1	132.8	171.2	194.3	218.5	236.0
15.4	75°	17.6	32.9	59.3	88.9	106.5	139.4	160.3	176.7	182.2
8.8	77.5°	11.0	25.2	49.4	69.2	83.4	113.1	107.6	122.9	136.1
6.6	80°	7.7	18.7	38.4	57.1	58.2	72.5	85.6	98.8	107.6
4.4	82.5°	5.5	15.4	28.5	43.9	38.4	56.0	67.0	76.8	56.0
3.3	85°	4.4	11.0	14.3	26.3	22.0	39.5	34.0	32.9	22.0
2.2	87.5°	3.3	5.5	9.9	12.1	8.8	8.8	11.0	13.2	11.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
3223.0
3142.8
3164.8
3183.4
3210.9
3266.9
3361.3
3485.3
3621.4
3735.6
3796.0
3726.8
3657.7
3592.9
3524.8
3445.8
3360.2
3268.0
3167.0
3036.3
2862.9
2708.1
2554.4
2161.4
1734.4
1226.2
632.3
376.5
293.1
239.3
178.9
138.3
108.7
40.6
22.0
11.0
0.0

(END OF REPORT)