

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: P842750

Luminaire Tested: **ARCH4-90-730-U-T2U**

Issue Date: 5/27/2024

Test Information

Test Method: LM-79-08
Report Number: P842750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH4-90-730-U-T2U
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 3000K, 765mA LIGHTSQUARES WITH 40 LEDS EACH AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

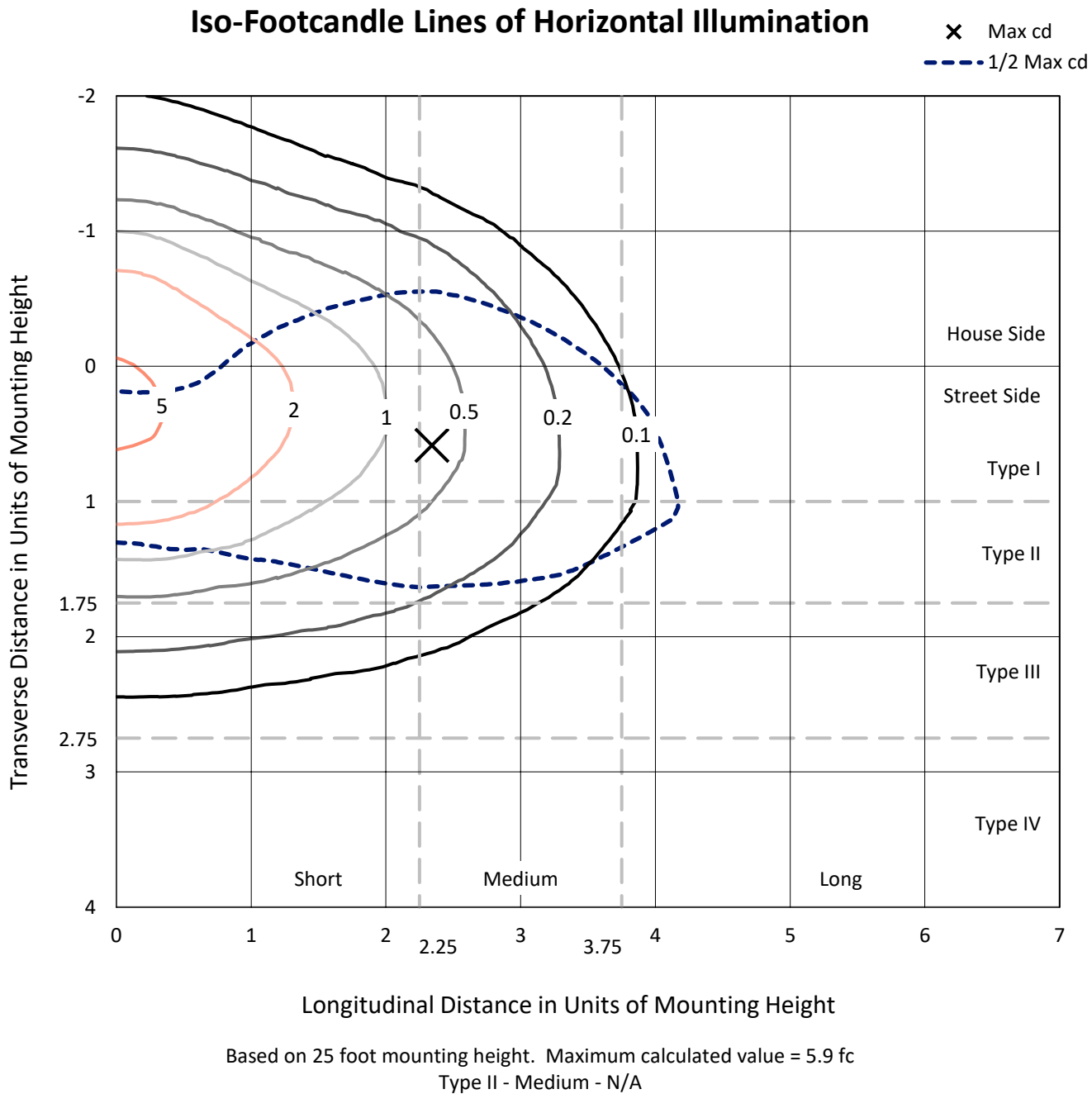
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16072 lumens
Efficiency: N/A
Efficacy: 172.6 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 0.58' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

Input Watts (W): 93.1
Input Voltage (V): NR
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: 24 FT

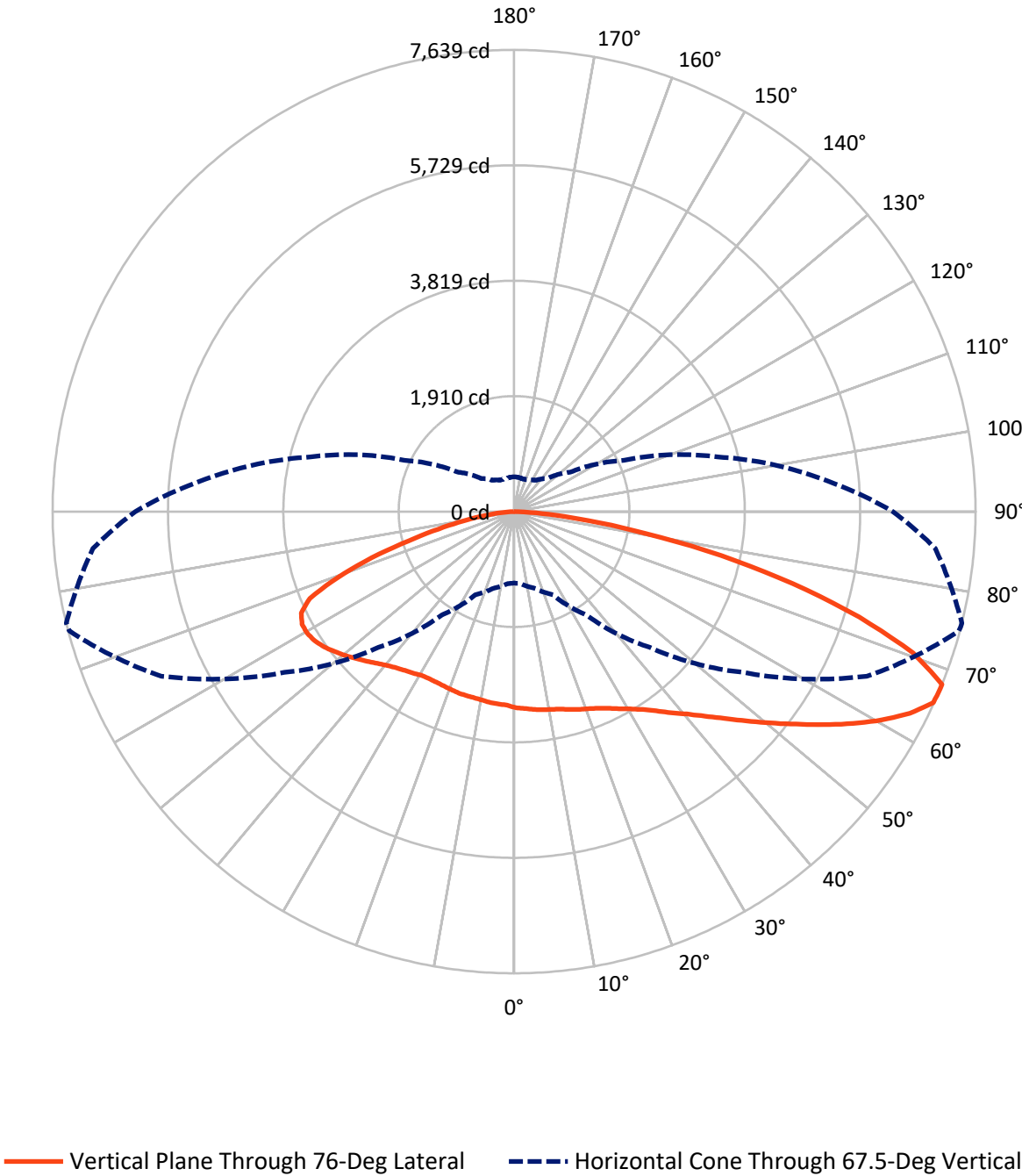


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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5430.8	0.0	5430.8
	% Fixture	33.8	0.0	33.8
Street Side	Lumens	10641.2	0.0	10641.2
	% Fixture	66.2	0.0	66.2
Total	Lumens	16072.0	0.0	16072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.0	1.9
10°-20°	957.1	6.0
20°-30°	1626.1	10.1
30°-40°	2313.7	14.4
40°-50°	2922.1	18.2
50°-60°	3163.7	19.7
60°-70°	2942.6	18.3
70°-80°	1580.4	9.8
80°-90°	253.3	1.6
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°	16072.0	100.0
0°-180°	16072.0	100.0

Coefficient of Utilization



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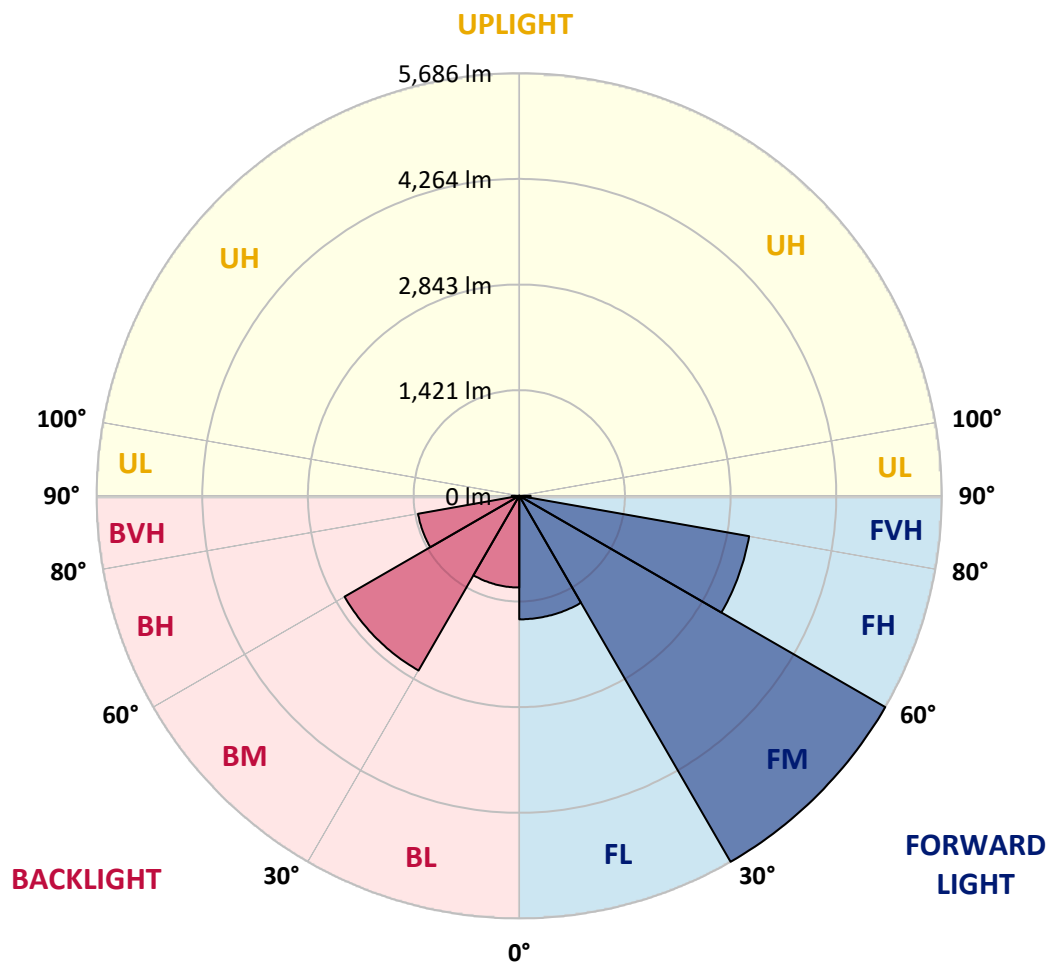
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1662.0	10.3			
FM	(30°-60°)	5685.7	35.4			
FH	(60°-80°)	3140.3	19.5			G2/5000
FVH	(80°-90°)	153.2	1.0			G2/225
BL	(0°-30°)	1234.2	7.7	B3/2500		
BM	(30°-60°)	2713.9	16.9	B3/5000		
BH	(60°-80°)	1382.7	8.6	B3/2500		G3/2500
BVH	(80°-90°)	100.1	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5
2.5°	3345.0	3339.0	3315.1	3318.1	3318.1	3315.1	3279.3	3264.4	3264.4	3261.4	3228.6
5°	3464.3	3455.4	3428.5	3422.6	3410.6	3395.7	3339.0	3306.2	3291.3	3288.3	3243.5
7.5°	3604.6	3592.6	3559.8	3541.9	3512.1	3473.3	3401.7	3350.9	3315.1	3312.2	3249.5
10°	3744.8	3732.9	3694.1	3661.3	3619.5	3556.8	3464.3	3389.7	3333.0	3327.1	3252.5
12.5°	3911.9	3900.0	3852.2	3810.5	3747.8	3664.3	3541.9	3440.5	3362.9	3353.9	3261.4
15°	4088.0	4070.1	4022.3	3974.6	3897.0	3789.6	3643.4	3509.1	3410.6	3395.7	3288.3
17.5°	4234.2	4210.3	4171.5	4123.8	4037.2	3911.9	3744.8	3577.7	3455.4	3443.4	3315.1
20°	4359.5	4341.6	4299.8	4255.1	4162.6	4025.3	3840.3	3646.4	3497.2	3482.2	3336.0
22.5°	4478.9	4455.0	4431.1	4398.3	4296.8	4144.7	3950.7	3729.9	3550.9	3533.0	3362.9
25°	4616.1	4589.3	4580.3	4562.4	4443.1	4287.9	4085.0	3834.3	3625.5	3604.6	3410.6
27.5°	4786.2	4756.4	4738.5	4738.5	4595.2	4434.1	4228.2	3956.7	3712.0	3694.1	3470.3
30°	4965.2	4929.4	4902.6	4902.6	4741.5	4580.3	4368.5	4079.0	3810.5	3789.6	3547.9
32.5°	5123.4	5087.6	5057.7	5054.8	4887.7	4726.5	4514.7	4213.3	3929.8	3903.0	3643.4
35°	5245.7	5212.9	5186.1	5192.0	5033.9	4875.7	4678.8	4392.3	4079.0	4049.2	3768.7
37.5°	5320.3	5308.4	5293.5	5314.4	5168.2	5019.0	4848.9	4565.4	4249.1	4222.3	3923.9
40°	5359.1	5350.2	5409.9	5436.7	5281.5	5147.3	5019.0	4744.4	4434.1	4404.3	4102.9
42.5°	5415.8	5490.4	5514.3	5508.3	5365.1	5245.7	5174.1	4938.4	4651.9	4625.1	4317.7
45°	5212.9	5195.0	5326.3	5397.9	5371.1	5308.4	5320.3	5171.1	4905.6	4878.7	4565.4
47.5°	4941.4	4917.5	4992.1	5168.2	5272.6	5332.3	5451.6	5412.8	5198.0	5174.1	4854.8
50°	4368.5	4401.3	4678.8	4914.5	5120.4	5326.3	5562.0	5672.4	5520.3	5496.4	5165.2
52.5°	3732.9	3765.7	4055.2	4598.2	4935.4	5281.5	5642.6	5932.0	5869.4	5842.5	5496.4
55°	3270.4	3342.0	3670.2	4064.1	4672.8	5141.3	5690.3	6197.6	6245.4	6221.5	5857.4
57.5°	2810.9	2864.6	3112.2	3461.4	4314.8	4896.6	5687.4	6445.3	6639.2	6615.4	6224.5
60°	2270.8	2339.4	2536.3	2912.3	3837.3	4604.2	5603.8	6639.2	7018.2	7000.3	6579.6
62.5°	1900.8	1921.6	2061.9	2387.1	3222.6	4234.2	5415.8	6743.7	7361.3	7349.4	6898.8
65°	1530.8	1533.7	1662.0	1933.6	2628.8	3774.7	5096.5	6704.9	7620.9	7626.9	7128.6
67.5°	1181.6	1196.6	1312.9	1518.8	2088.7	3177.9	4640.0	6442.3	7623.9	7638.8	6997.3
70°	817.6	829.5	1005.6	1205.5	1614.3	2533.4	4022.3	5747.0	6997.3	7009.2	6272.2
72.5°	575.9	581.9	769.9	963.8	1262.2	1909.7	3034.6	4753.4	5964.9	5973.8	5275.6
75°	429.7	435.7	543.1	731.1	966.8	1321.9	2073.8	3640.4	4765.3	4765.3	4165.6
77.5°	304.4	307.3	352.1	504.3	644.5	892.2	1247.3	2384.2	3497.2	3503.1	3034.6
80°	205.9	208.9	229.8	340.2	402.8	483.4	677.4	1250.3	2205.1	2214.1	1927.6
82.5°	107.4	113.4	128.3	173.1	202.9	268.6	349.1	635.6	1220.4	1244.3	1157.8
85°	41.8	41.8	47.7	56.7	74.6	104.4	161.1	241.7	552.0	569.9	510.3
87.5°	14.9	14.9	17.9	17.9	20.9	23.9	26.9	35.8	62.7	62.7	59.7
90°	0.0	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°	180°
0°	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5	3246.5
2.5°	3216.7	3216.7	3201.7	3207.7	3204.7	3198.8	3192.8	3201.7	3192.8	3171.9	3168.9
5°	3222.6	3216.7	3192.8	3189.8	3180.9	3168.9	3154.0	3160.0	3145.1	3127.2	3124.2
7.5°	3225.6	3213.7	3180.9	3168.9	3151.0	3127.2	3103.3	3103.3	3082.4	3064.5	3061.5
10°	3219.7	3204.7	3160.0	3136.1	3103.3	3067.5	3034.6	3025.7	3001.8	2980.9	2980.9
12.5°	3222.6	3201.7	3145.1	3106.3	3061.5	3016.7	2975.0	2963.0	2942.1	2921.3	2918.3
15°	3240.5	3210.7	3139.1	3088.4	3022.7	2972.0	2927.2	2918.3	2900.4	2885.5	2885.5
17.5°	3258.4	3219.7	3130.1	3058.5	2978.0	2921.3	2879.5	2879.5	2867.6	2858.6	2858.6
20°	3267.4	3222.6	3112.2	3016.7	2924.2	2864.6	2825.8	2831.7	2828.8	2825.8	2825.8
22.5°	3288.3	3228.6	3097.3	2978.0	2867.6	2804.9	2769.1	2778.0	2775.0	2775.0	2778.0
25°	3321.1	3243.5	3085.4	2942.1	2813.8	2745.2	2706.4	2712.4	2712.4	2712.4	2712.4
27.5°	3365.9	3273.4	3082.4	2909.3	2760.1	2682.5	2634.8	2634.8	2622.9	2625.9	2628.8
30°	3434.5	3330.1	3088.4	2879.5	2703.4	2605.0	2548.3	2539.3	2536.3	2542.3	2545.3
32.5°	3518.0	3407.6	3124.2	2858.6	2643.8	2518.4	2446.8	2443.8	2434.9	2434.9	2434.9
35°	3622.5	3482.2	3157.0	2855.6	2584.1	2425.9	2348.3	2339.4	2318.5	2309.6	2309.6
37.5°	3756.8	3598.6	3195.8	2834.7	2533.4	2336.4	2243.9	2214.1	2190.2	2187.2	2187.2
40°	3920.9	3729.9	3252.5	2810.9	2479.6	2243.9	2121.6	2070.8	2073.8	2085.8	2085.8
42.5°	4114.8	3891.0	3324.1	2798.9	2402.1	2148.4	1978.3	1918.7	1939.6	1951.5	1954.5
45°	4341.6	4082.0	3404.7	2784.0	2330.4	2041.0	1826.2	1751.6	1760.5	1763.5	1766.5
47.5°	4604.2	4293.9	3488.2	2772.1	2249.9	1906.7	1659.1	1560.6	1557.6	1539.7	1545.7
50°	4878.7	4517.7	3574.7	2751.2	2151.4	1748.6	1483.0	1366.6	1342.8	1315.9	1318.9
52.5°	5171.1	4747.4	3655.3	2718.4	2029.1	1587.4	1315.9	1190.6	1142.8	1113.0	1119.0
55°	5493.4	4983.2	3732.9	2667.6	1900.8	1426.3	1166.7	1038.4	978.7	954.9	957.8
57.5°	5788.8	5209.9	3789.6	2605.0	1760.5	1280.1	1035.4	910.1	871.3	868.3	871.3
60°	6075.3	5400.9	3813.5	2518.4	1617.3	1145.8	913.1	817.6	790.7	805.7	808.6
62.5°	6317.0	5523.2	3801.5	2402.1	1471.1	1017.5	814.6	746.0	728.1	757.9	760.9
65°	6457.2	5562.0	3718.0	2235.0	1312.9	892.2	722.1	647.5	638.6	656.5	665.4
67.5°	6272.2	5320.3	3491.2	2005.2	1136.9	775.8	632.6	572.9	558.0	572.9	572.9
70°	5559.0	4610.2	2954.1	1641.2	942.9	662.4	549.0	507.3	495.3	507.3	504.3
72.5°	4631.0	3834.3	2327.5	1280.1	743.0	558.0	477.4	438.6	426.7	414.8	408.8
75°	3592.6	2912.3	1688.9	939.9	561.0	447.6	399.8	364.0	334.2	346.1	340.2
77.5°	2631.8	2044.0	1196.6	650.5	402.8	346.1	313.3	286.5	265.6	289.4	286.5
80°	1694.9	1321.9	799.7	435.7	277.5	241.7	229.8	214.8	235.7	307.3	313.3
82.5°	1035.4	838.5	477.4	283.5	182.0	161.1	149.2	149.2	241.7	265.6	268.6
85°	462.5	444.6	259.6	146.2	101.5	92.5	83.5	107.4	98.5	71.6	74.6
87.5°	74.6	77.6	56.7	50.7	38.8	38.8	29.8	20.9	14.9	9.0	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)