

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: P237353

Luminaire Tested: **ARCH-L-AF72-200-D-U-T4W-7050**

Issue Date: 2/14/2018

Test Information

Test Method: LM-79-08
Report Number: P237353
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29615)
Test Lab: INNOVATION CENTER-P2
Issue Date: 2/14/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-200-D-U-T4W-7050
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 5000K, 860mA LIGHT ENGINES WITH 24 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24318 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

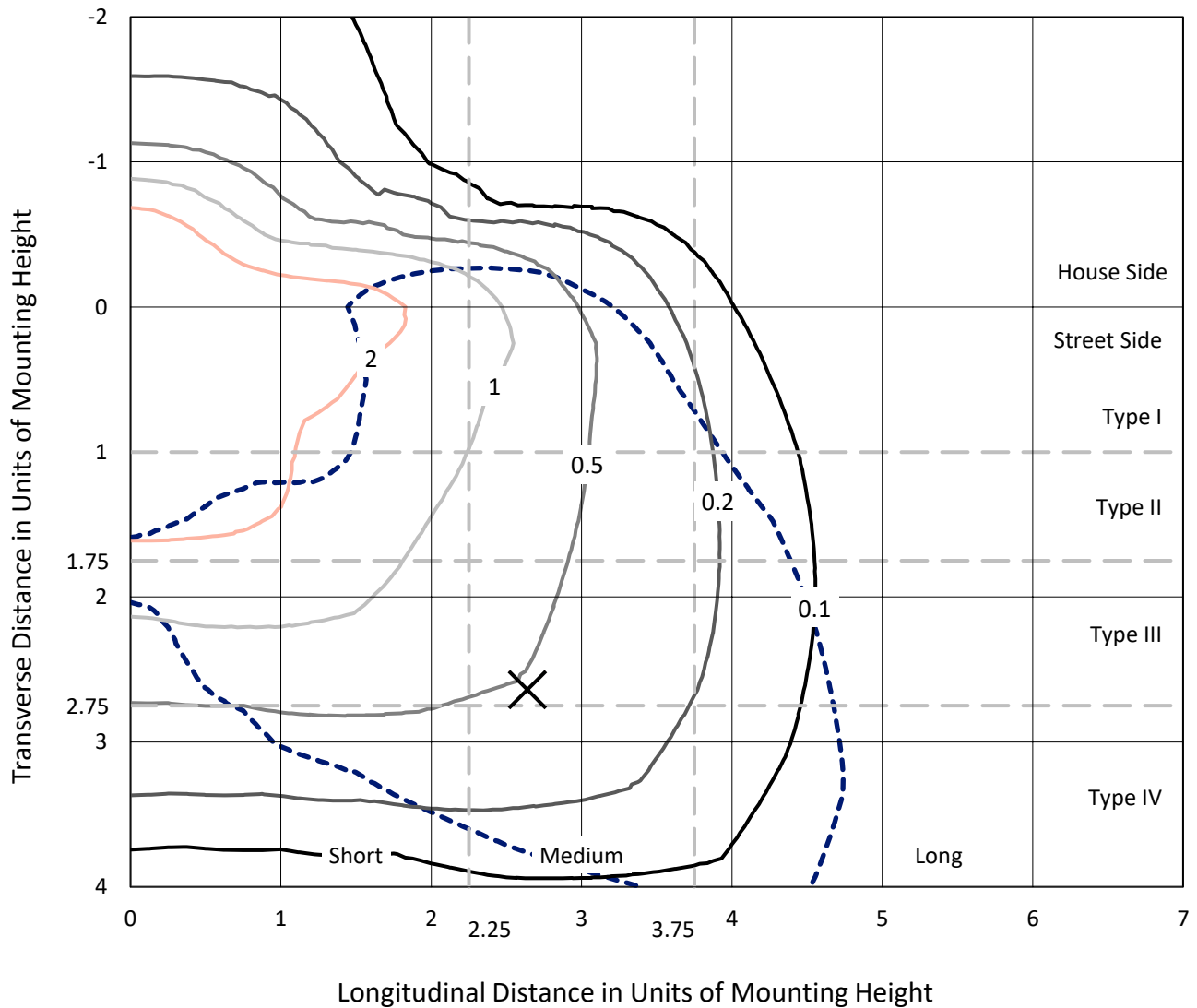
Input Watts (W): 201
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

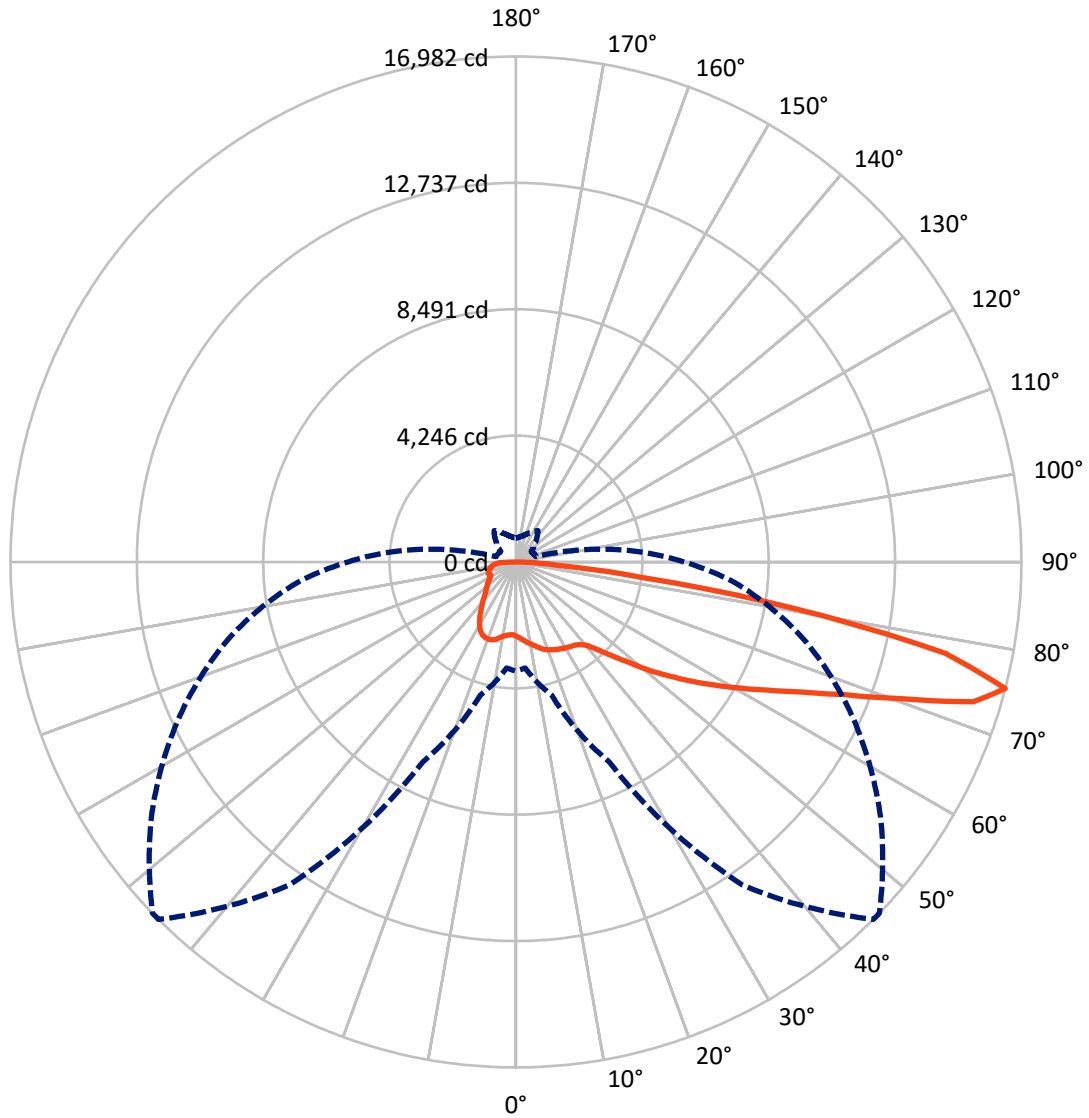
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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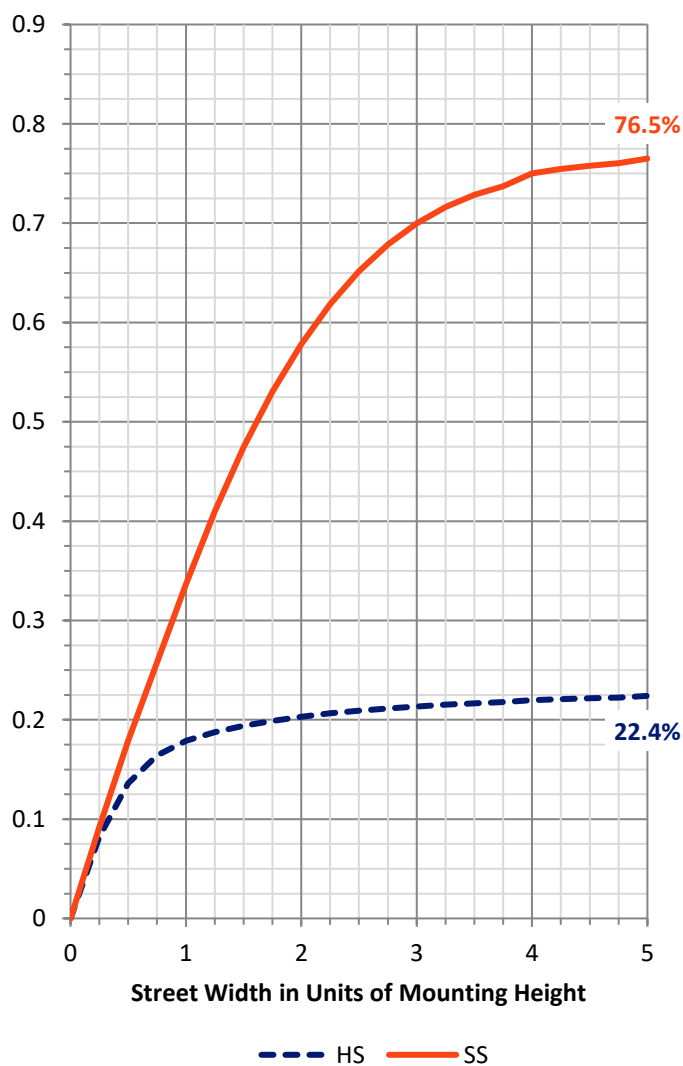
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5633.5	0.0	5633.5
	% Fixture	23.2	0.0	23.2
Street Side	Lumens	18684.5	0.0	18684.5
	% Fixture	76.8	0.0	76.8
Total	Lumens	24318.0	0.0	24318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	1.0
10°-20°	800.6	3.3
20°-30°	1373.8	5.6
30°-40°	1921.4	7.9
40°-50°	2818.5	11.6
50°-60°	4390.5	18.1
60°-70°	6317.6	26.0
70°-80°	5503.3	22.6
80°-90°	945.1	3.9
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°	24318.0	100.0
0°-180°	24318.0	100.0

Coefficient of Utilization



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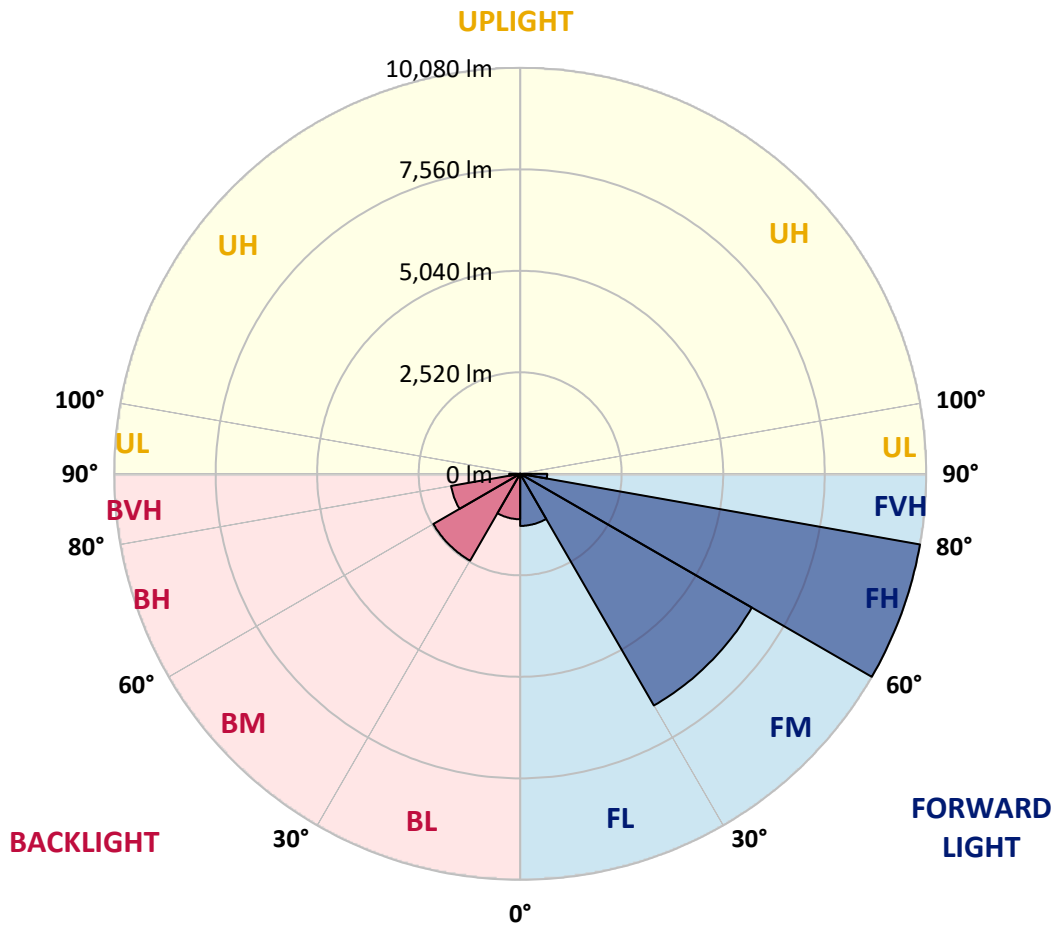
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1293.1	5.3			
FM (30°-60°)	6640.8	27.3			
FH (60°-80°)	10080.0	41.5			G4/12000
FVH (80°-90°)	670.6	2.8			G4/750
BL (0°-30°)	1128.3	4.6	B3/2500		
BM (30°-60°)	2489.7	10.2	B2/2500		
BH (60°-80°)	1740.9	7.2	B3/2500		G3/2500
BVH (80°-90°)	274.6	1.1			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9
2.5°	2615.9	2597.0	2597.0	2582.8	2582.8	2559.2	2549.7	2545.0	2521.3	2507.1	2492.9
5°	2767.3	2743.7	2738.9	2705.8	2691.6	2639.6	2634.9	2601.7	2559.2	2516.6	2483.5
7.5°	2904.5	2890.3	2866.6	2833.5	2791.0	2724.7	2720.0	2668.0	2597.0	2540.2	2492.9
10°	3003.8	2994.4	2961.3	2918.7	2871.4	2805.1	2800.4	2743.7	2658.5	2592.3	2526.1
12.5°	3122.1	3107.9	3065.3	3008.6	2956.5	2895.0	2890.3	2843.0	2748.4	2663.2	2578.1
15°	3235.6	3216.7	3164.7	3107.9	3051.1	2999.1	2999.1	2947.1	2847.7	2748.4	2649.0
17.5°	3292.4	3282.9	3230.9	3169.4	3122.1	3084.2	3079.5	3032.2	2932.9	2828.8	2720.0
20°	3311.3	3316.0	3268.7	3202.5	3169.4	3150.5	3145.7	3112.6	3003.8	2904.5	2800.4
22.5°	3306.6	3320.8	3282.9	3212.0	3202.5	3202.5	3202.5	3164.7	3079.5	2980.2	2876.1
25°	3325.5	3344.4	3316.0	3230.9	3230.9	3249.8	3249.8	3230.9	3155.2	3070.1	2966.0
27.5°	3391.7	3405.9	3382.3	3264.0	3268.7	3297.1	3292.4	3297.1	3249.8	3169.4	3065.3
30°	3472.1	3491.1	3462.7	3316.0	3311.3	3339.7	3339.7	3363.3	3330.2	3245.1	3159.9
32.5°	3689.7	3685.0	3595.1	3372.8	3358.6	3387.0	3387.0	3410.6	3391.7	3325.5	3245.1
35°	4337.8	4266.9	4068.2	3557.3	3415.4	3429.6	3429.6	3472.1	3481.6	3429.6	3358.6
37.5°	5000.1	4976.4	4825.0	4049.3	3623.5	3519.4	3514.7	3576.2	3618.8	3576.2	3528.9
40°	5667.1	5648.1	5615.0	4706.8	4058.7	3680.3	3666.1	3718.1	3793.8	3765.4	3737.0
42.5°	6286.8	6277.3	6310.4	5354.9	4612.2	4025.6	3983.0	3921.5	4030.3	4020.9	4020.9
45°	6774.0	6797.6	6816.6	5960.4	5212.9	4470.3	4418.2	4210.1	4356.7	4394.6	4423.0
47.5°	7048.4	7067.3	7133.5	6551.7	5813.7	4985.9	4948.0	4607.4	4801.4	4914.9	4995.3
50°	7441.0	7388.9	7445.7	7128.8	6537.5	5657.6	5553.5	5142.0	5388.0	5586.6	5775.9
52.5°	7819.4	7734.3	7781.6	7795.8	7360.6	6315.1	6206.3	5771.1	6078.6	6390.8	6726.7
55°	8160.0	8155.3	8202.6	8443.8	8155.3	7020.0	6897.0	6466.5	6911.2	7247.0	7814.7
57.5°	8434.4	8481.7	8689.8	9196.0	9073.0	7786.3	7649.1	7275.4	7800.5	8136.4	9077.7
60°	8756.0	8831.7	9177.0	9834.6	9910.3	8590.5	8448.6	8178.9	8713.5	9054.1	10539.4
62.5°	8864.8	8973.6	9683.2	10506.3	10785.4	9470.3	9342.6	9162.9	9673.7	9981.2	11996.4
65°	8141.1	8349.2	9962.3	10851.6	11726.8	10530.0	10421.2	10265.0	10629.3	10832.7	12985.0
67.5°	7942.4	8037.0	9418.3	11348.3	12611.3	11892.3	11783.5	11513.9	11523.3	11438.2	13306.7
70°	7663.3	7767.4	8860.1	11722.0	13879.1	13756.1	13623.7	12828.9	12341.7	11826.1	12672.8
72.5°	6528.0	6494.9	7634.9	10714.4	14489.3	16064.6	15908.5	14243.3	12947.2	11490.2	10695.5
75°	3666.1	3571.5	4631.1	7412.6	13231.0	16982.3	16977.5	14957.6	12521.5	10009.6	7280.1
77.5°	1064.3	1036.0	1527.9	3107.9	8907.4	14754.2	14934.0	13491.2	10449.5	7190.3	3997.2
80°	501.4	510.9	657.5	1026.5	3803.3	9522.4	10038.0	8883.8	6244.2	3316.0	1650.9
82.5°	316.9	321.7	449.4	662.3	1608.3	4323.6	4749.4	3997.2	2474.0	1433.3	728.5
85°	198.7	198.7	298.0	435.2	960.3	1381.3	1499.5	1362.4	1059.6	780.5	397.4
87.5°	108.8	108.8	179.8	250.7	525.1	444.7	458.9	544.0	662.3	477.8	198.7
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°	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9	2492.9
2.5°	2488.2	2478.7	2464.6	2459.8	2455.1	2450.4	2455.1	2464.6	2455.1	2455.1	2459.8
5°	2474.0	2464.6	2445.6	2445.6	2450.4	2455.1	2478.7	2492.9	2497.7	2497.7	2497.7
7.5°	2474.0	2459.8	2445.6	2450.4	2459.8	2478.7	2516.6	2540.2	2559.2	2563.9	2563.9
10°	2497.7	2478.7	2469.3	2478.7	2507.1	2521.3	2559.2	2597.0	2620.7	2630.1	2630.1
12.5°	2540.2	2521.3	2521.3	2540.2	2578.1	2597.0	2630.1	2658.5	2686.9	2701.1	2701.1
15°	2611.2	2587.5	2592.3	2625.4	2668.0	2686.9	2710.5	2720.0	2743.7	2762.6	2762.6
17.5°	2677.4	2653.8	2663.2	2701.1	2729.5	2738.9	2753.1	2748.4	2757.8	2772.0	2776.8
20°	2753.1	2729.5	2734.2	2757.8	2762.6	2753.1	2753.1	2738.9	2734.2	2757.8	2767.3
22.5°	2828.8	2805.1	2800.4	2786.2	2762.6	2738.9	2724.7	2710.5	2701.1	2724.7	2734.2
25°	2918.7	2885.6	2861.9	2800.4	2738.9	2696.3	2677.4	2668.0	2663.2	2686.9	2696.3
27.5°	3018.0	2984.9	2913.9	2781.5	2682.2	2611.2	2597.0	2597.0	2606.5	2620.7	2630.1
30°	3112.6	3079.5	2951.8	2738.9	2582.8	2478.7	2464.6	2478.7	2502.4	2516.6	2530.8
32.5°	3207.2	3174.1	2975.4	2672.7	2436.2	2303.7	2294.3	2317.9	2355.8	2365.2	2374.7
35°	3335.0	3301.8	3003.8	2578.1	2251.7	2109.8	2100.3	2114.5	2147.6	2161.8	2176.0
37.5°	3514.7	3495.8	3046.4	2474.0	2081.4	1925.3	1896.9	1887.4	1906.4	1901.6	1920.6
40°	3751.2	3765.4	3122.1	2336.8	1915.8	1755.0	1693.5	1665.1	1646.2	1608.3	1627.3
42.5°	4096.6	4106.0	3207.2	2180.7	1773.9	1594.2	1513.7	1461.7	1423.9	1362.4	1371.8
45°	4602.7	4522.3	3306.6	2015.2	1646.2	1466.4	1371.8	1310.3	1258.3	1206.3	1211.0
47.5°	5274.4	5028.5	3415.4	1878.0	1518.5	1362.4	1277.2	1206.3	1144.8	1102.2	1106.9
50°	6102.3	5657.6	3524.2	1750.3	1390.7	1281.9	1206.3	1130.6	1069.1	1026.5	1021.8
52.5°	7195.0	6414.5	3595.1	1608.3	1263.0	1211.0	1144.8	1073.8	998.1	946.1	941.4
55°	8330.3	7294.3	3656.6	1438.1	1140.0	1130.6	1097.5	1017.0	927.2	860.9	851.5
57.5°	9579.1	8235.7	3703.9	1272.5	1045.4	1064.3	1054.9	960.3	860.9	799.4	794.7
60°	10714.4	9210.2	3552.6	1125.8	960.3	998.1	1007.6	927.2	875.1	889.3	894.1
62.5°	11859.2	9962.3	2975.4	1017.0	903.5	955.5	1036.0	1031.2	1007.6	1031.2	1036.0
65°	12270.8	10118.4	2109.8	927.2	846.7	974.5	1125.8	1116.4	1007.6	965.0	955.5
67.5°	12039.0	9654.8	1419.1	856.2	804.2	998.1	1220.5	1116.4	969.7	913.0	894.1
70°	10936.8	8514.8	1040.7	785.3	766.3	993.4	1272.5	1111.7	950.8	889.3	865.7
72.5°	8722.9	6570.6	837.3	719.0	709.6	969.7	1300.9	1102.2	931.9	865.7	837.3
75°	5648.1	4087.1	704.8	652.8	624.4	931.9	1286.7	1073.8	908.2	823.1	804.2
77.5°	2620.7	1759.7	600.8	577.1	544.0	875.1	1244.1	1017.0	856.2	775.8	752.1
80°	1220.5	832.6	506.2	501.4	487.2	827.8	1187.3	950.8	794.7	728.5	690.6
82.5°	652.8	501.4	411.5	411.5	425.7	771.1	1116.4	870.4	714.3	681.2	581.8
85°	345.3	288.6	298.0	321.7	364.2	681.2	1021.8	785.3	624.4	520.3	506.2
87.5°	175.0	184.5	184.5	217.6	279.1	553.5	842.0	648.1	529.8	425.7	416.3
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)