

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: P399708

Luminaire Tested: **ARCH-L-PA3-180-730-U-T2U**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399708
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-180-730-U-T2U
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24281 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

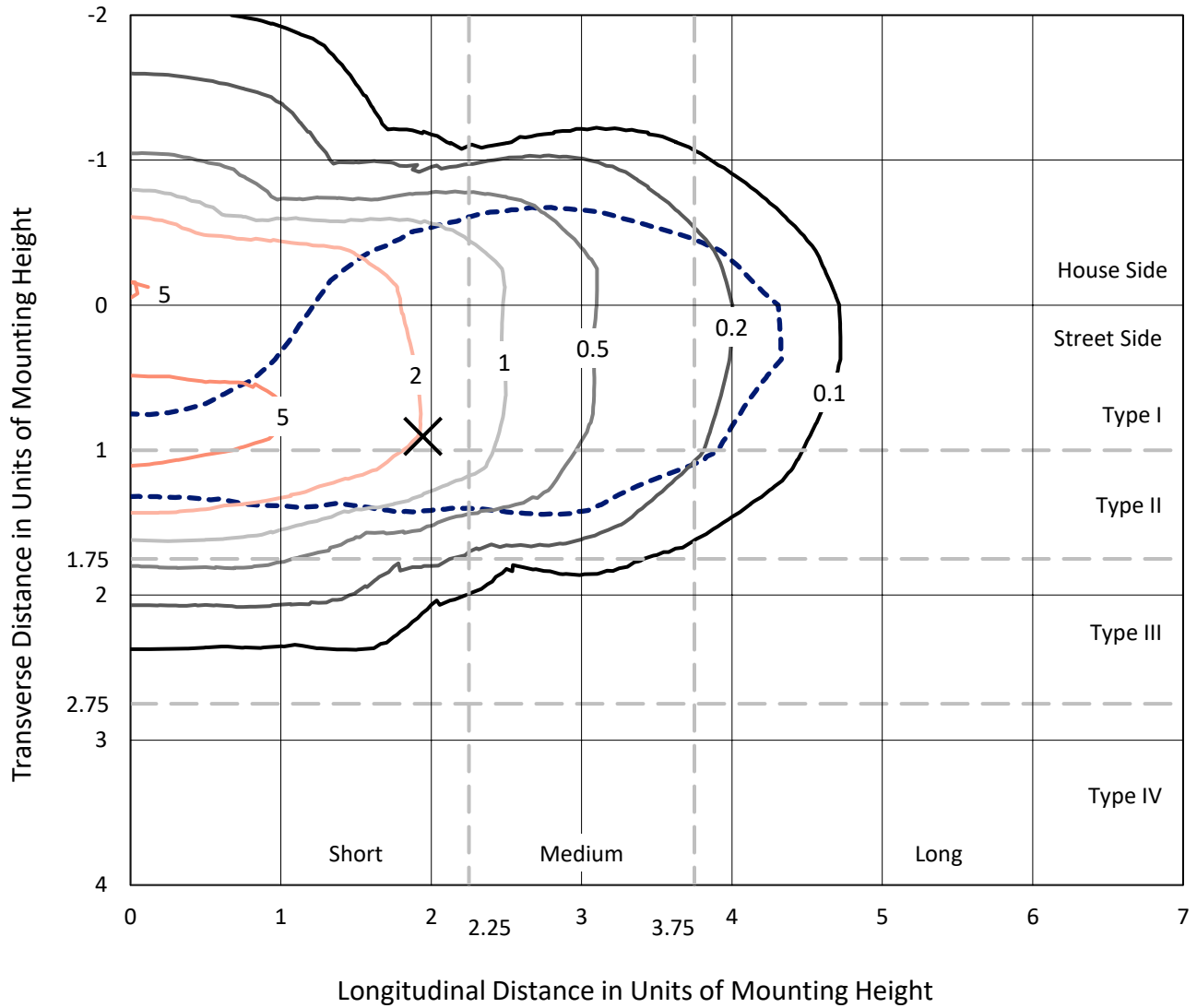
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

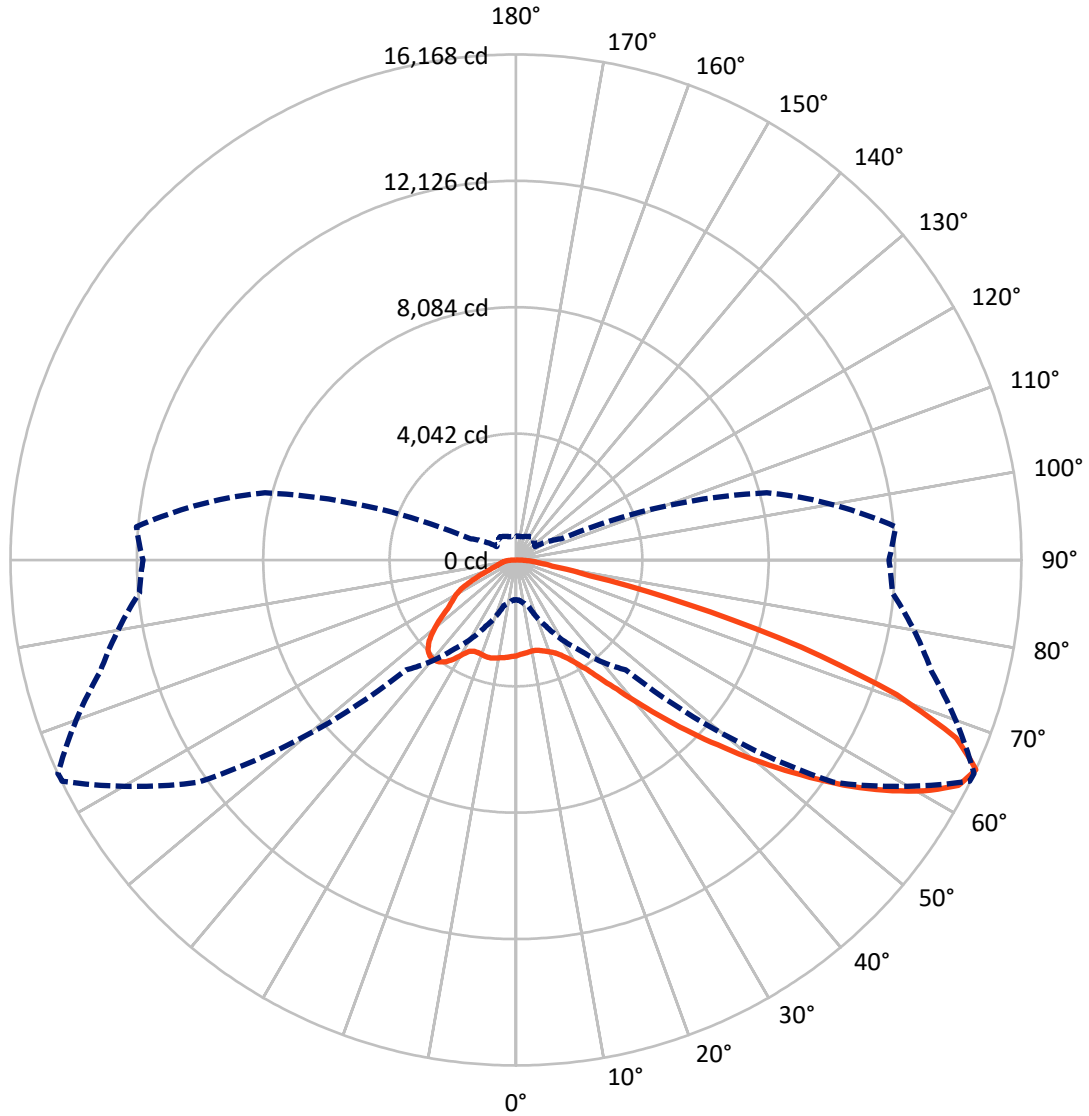
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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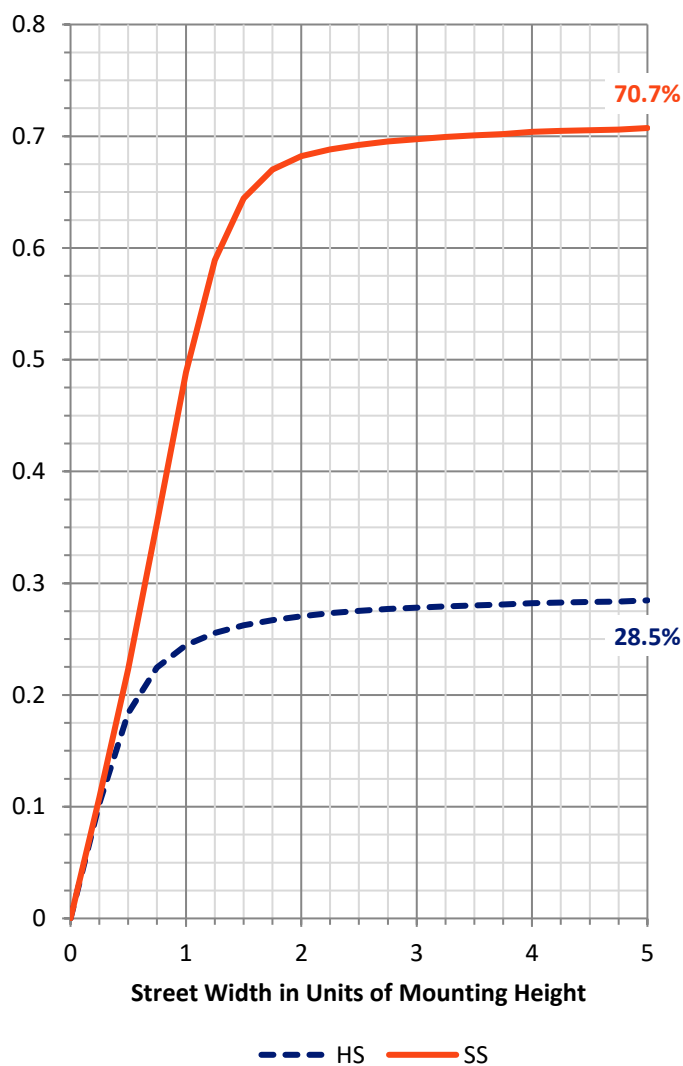
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7020.0	0.0	7020.0
	% Fixture	28.9	0.0	28.9
Street Side	Lumens	17261.0	0.0	17261.0
	% Fixture	71.1	0.0	71.1
Total	Lumens	24281.0	0.0	24281.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.3	1.2
10°-20°	872.7	3.6
20°-30°	1550.2	6.4
30°-40°	2622.5	10.8
40°-50°	4565.3	18.8
50°-60°	5899.8	24.3
60°-70°	5162.7	21.3
70°-80°	2808.1	11.6
80°-90°	507.4	2.1
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°	24281.0	100.0
0°-180°	24281.0	100.0

Coefficient of Utilization

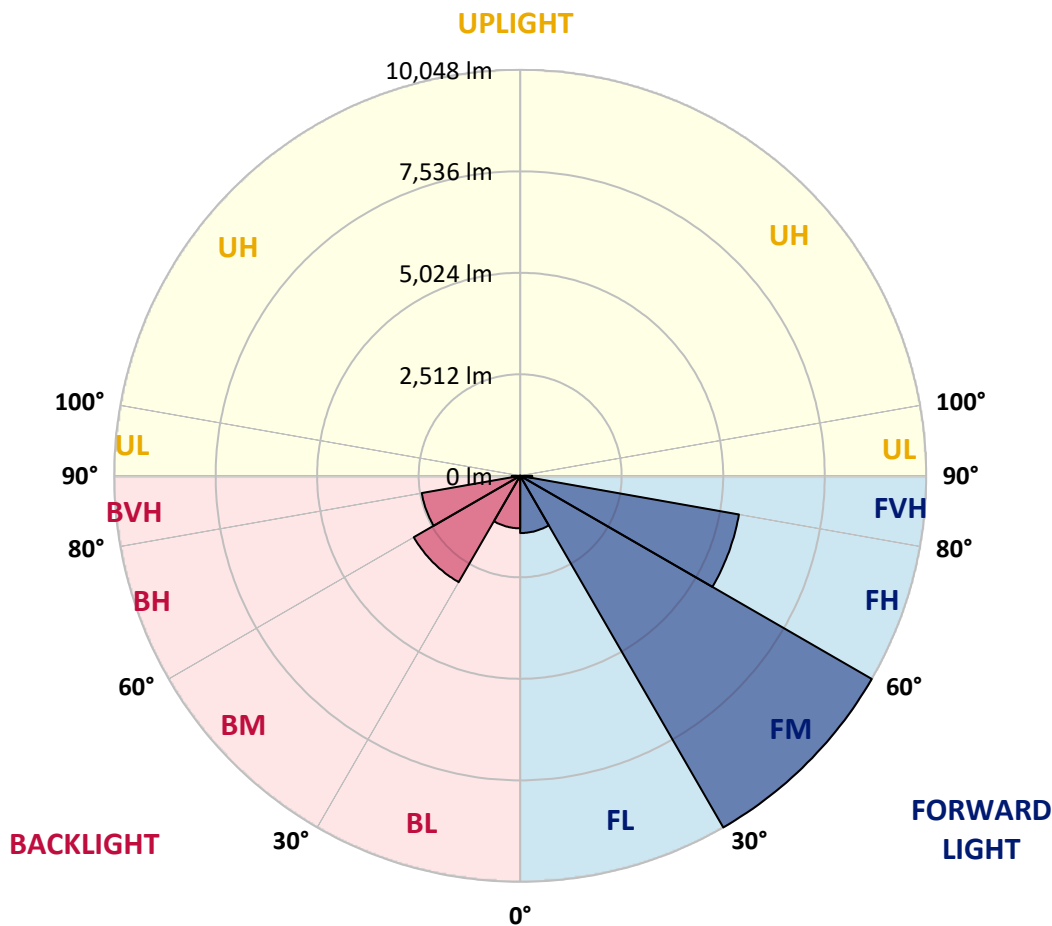


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1416.7	5.8			
FM (30°-60°)	10048.1	41.4			
FH (60°-80°)	5497.6	22.6			G3/7500
FVH (80°-90°)	298.6	1.2			G3/500
BL (0°-30°)	1298.4	5.3	B3/2500		
BM (30°-60°)	3039.5	12.5	B3/5000		
BH (60°-80°)	2473.2	10.2	B3/2500		G3/2500
BVH (80°-90°)	208.8	0.9			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1
2.5°	3013.8	3010.6	3004.2	3010.6	3013.8	3020.2	3017.0	3023.4	3020.2	3029.8	3045.8
5°	2937.1	2930.7	2927.5	2943.5	2953.1	2969.1	2975.5	2997.8	2994.6	3010.6	3036.2
7.5°	2850.8	2850.8	2847.6	2866.8	2879.6	2908.3	2930.7	2969.1	2972.3	3001.0	3029.8
10°	2783.7	2786.9	2783.7	2799.7	2818.9	2854.0	2892.4	2946.7	2949.9	2991.4	3020.2
12.5°	2758.1	2758.1	2758.1	2780.5	2806.1	2854.0	2898.8	2956.3	2962.7	3007.4	3033.0
15°	2793.3	2796.5	2790.1	2812.5	2841.2	2898.8	2940.3	3001.0	3007.4	3049.0	3064.9
17.5°	2917.9	2930.7	2914.7	2927.5	2921.1	2965.9	3004.2	3064.9	3068.1	3103.3	3109.7
20°	3164.0	3176.8	3151.2	3135.3	3077.7	3074.5	3090.5	3138.4	3138.4	3160.8	3144.8
22.5°	3544.3	3557.1	3512.4	3451.7	3314.2	3247.1	3212.0	3234.3	3231.1	3240.7	3199.2
25°	4049.3	4046.1	3991.8	3879.9	3659.4	3496.4	3410.1	3375.0	3375.0	3355.8	3304.6
27.5°	4675.7	4627.8	4531.9	4397.7	4090.9	3863.9	3678.6	3589.1	3573.1	3515.6	3419.7
30°	5343.7	5308.5	5171.1	4976.1	4621.4	4330.5	4023.7	3844.8	3835.2	3710.5	3566.7
32.5°	6129.9	6072.4	5919.0	5685.6	5260.6	4851.5	4468.0	4196.3	4180.3	3982.2	3784.0
35°	7139.8	7091.9	6794.6	6561.3	6014.8	5477.9	5024.1	4662.9	4650.1	4407.3	4154.8
37.5°	8351.1	8226.4	7938.8	7501.0	6925.7	6289.7	5714.4	5260.6	5244.6	4976.1	4656.5
40°	9431.3	9319.5	9063.8	8661.1	8044.3	7338.0	6558.1	6008.4	5992.5	5666.5	5263.8
42.5°	10230.3	10153.6	9987.4	9754.1	9313.1	8884.8	7635.2	6912.9	6884.1	6462.3	5960.5
45°	10693.7	10633.0	10537.1	10594.7	10588.3	10508.4	8920.0	7989.9	7897.3	7350.7	6737.1
47.5°	10581.9	10527.5	10565.9	11013.3	11630.2	12093.6	10415.7	9092.6	8967.9	8255.2	7564.9
50°	9773.3	9795.7	9997.0	10853.5	12237.4	13266.5	12074.4	10348.6	10182.4	9166.1	8351.1
52.5°	8300.0	8354.3	8843.3	10041.8	12170.3	14027.1	13573.3	11646.1	11425.6	10054.5	9067.0
55°	6593.3	6730.7	7363.5	8622.7	11294.6	14081.5	14704.7	12950.1	12707.2	10888.7	9690.2
57.5°	4877.1	5081.6	5813.5	6970.4	9616.7	13221.8	15270.4	14196.5	13902.5	11716.5	10348.6
60°	3093.7	3218.3	4062.1	5426.8	7360.3	11118.8	15196.9	15257.6	15001.9	12541.0	11035.7
62.5°	1975.1	2035.8	2460.9	3870.3	5145.5	8232.8	14394.7	16059.8	15887.2	13292.1	11687.7
65°	1268.8	1294.4	1511.7	2381.0	3502.8	4969.7	12397.2	16146.1	16168.4	13761.9	12090.4
67.5°	1032.3	1045.1	1125.0	1470.1	2476.9	2745.3	8635.5	14918.8	15190.5	13640.4	11953.0
70°	939.6	955.6	1038.7	1172.9	1917.6	1895.2	4180.3	12483.5	12927.7	12940.5	11342.5
72.5°	792.6	815.0	926.8	1109.0	1482.9	1495.7	1770.6	8891.2	9546.4	11566.2	10425.3
75°	661.6	674.4	770.2	978.0	1256.0	1195.3	1243.2	4714.1	5660.1	9274.7	9450.5
77.5°	536.9	549.7	620.0	779.8	1115.4	930.0	978.0	1952.7	2413.0	6296.1	7724.7
80°	383.5	396.3	476.2	607.2	843.7	837.3	725.5	1077.0	1169.7	3403.7	5017.7
82.5°	274.9	284.4	361.1	434.7	584.9	840.5	546.5	731.9	767.0	1508.5	2023.1
85°	185.4	185.4	249.3	287.6	377.1	530.5	441.0	495.4	517.7	715.9	546.5
87.5°	79.9	79.9	134.2	147.0	198.2	246.1	329.2	249.3	255.7	386.7	223.7
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°	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1	3068.1
2.5°	3055.4	3058.6	3064.9	3084.1	3096.9	3116.1	3125.7	3138.4	3138.4	3132.1	3135.3
5°	3049.0	3058.6	3080.9	3116.1	3138.4	3173.6	3199.2	3218.3	3224.7	3218.3	3221.5
7.5°	3045.8	3061.7	3100.1	3151.2	3183.2	3227.9	3263.1	3285.5	3301.4	3295.1	3298.2
10°	3036.2	3061.7	3109.7	3173.6	3221.5	3266.3	3298.2	3307.8	3317.4	3311.0	3307.8
12.5°	3049.0	3077.7	3128.9	3205.6	3259.9	3295.1	3304.6	3288.7	3266.3	3253.5	3250.3
15°	3074.5	3103.3	3154.4	3234.3	3282.3	3295.1	3272.7	3221.5	3170.4	3141.6	3138.4
17.5°	3109.7	3128.9	3170.4	3240.7	3279.1	3263.1	3218.3	3157.6	3119.3	3096.9	3100.1
20°	3132.1	3132.1	3164.0	3218.3	3250.3	3237.5	3183.2	3116.1	3055.4	3026.6	3017.0
22.5°	3164.0	3148.0	3151.2	3199.2	3243.9	3224.7	3109.7	2991.4	2905.1	2873.2	2870.0
25°	3250.3	3205.6	3176.8	3205.6	3311.0	3154.4	2924.3	2786.9	2707.0	2678.2	2681.4
27.5°	3355.8	3295.1	3234.3	3282.3	3365.4	2994.6	2687.8	2531.2	2483.3	2460.9	2470.5
30°	3461.2	3381.3	3301.4	3474.0	3327.0	2745.3	2384.2	2230.8	2189.2	2173.3	2186.0
32.5°	3656.2	3525.2	3429.3	3729.7	3208.8	2460.9	2055.0	1914.4	1876.0	1856.9	1850.5
35°	3982.2	3816.0	3720.1	3953.4	3042.6	2144.5	1754.6	1655.5	1614.0	1572.4	1566.0
37.5°	4452.0	4250.6	4164.4	4081.3	2809.3	1831.3	1524.5	1457.4	1396.6	1332.7	1329.5
40°	5014.5	4752.4	4688.5	4138.8	2486.5	1537.3	1364.7	1300.8	1224.1	1163.3	1166.5
42.5°	5663.3	5327.7	5190.3	4122.8	2087.0	1380.7	1249.6	1179.3	1112.2	1057.9	1054.7
45°	6356.8	5976.5	5660.1	4011.0	1690.7	1272.0	1179.3	1096.2	1029.1	968.4	962.0
47.5°	7123.8	6698.8	6094.7	3793.6	1396.6	1195.3	1137.8	1019.5	958.8	920.4	920.4
50°	7897.3	7389.1	6494.2	3464.4	1224.1	1137.8	1077.0	978.0	930.0	898.1	898.1
52.5°	8558.8	8108.2	6823.4	3071.3	1115.4	1089.8	1035.5	958.8	907.7	878.9	875.7
55°	9201.2	8776.2	7117.4	2681.4	1025.9	1025.9	1025.9	942.8	885.3	859.7	856.5
57.5°	9840.4	9479.3	7424.3	2425.7	946.0	971.6	1006.7	923.6	866.1	843.7	840.5
60°	10562.7	10323.0	7779.0	2246.8	875.7	914.0	981.2	901.3	834.2	815.0	811.8
62.5°	11329.7	11329.7	8101.8	1994.3	811.8	866.1	942.8	872.5	805.4	789.4	786.2
65°	11930.6	12189.5	8309.5	1617.2	747.9	818.2	898.1	834.2	767.0	763.8	757.4
67.5°	12000.9	12406.8	8178.5	1220.9	690.3	767.0	853.3	792.6	728.7	728.7	719.1
70°	11495.9	11908.2	7769.4	914.0	648.8	715.9	795.8	741.5	680.7	687.1	671.2
72.5°	10652.2	10754.5	6753.1	722.3	600.8	661.6	725.5	683.9	629.6	629.6	607.2
75°	9540.0	8971.1	4905.8	604.0	543.3	597.6	655.2	620.0	572.1	556.1	543.3
77.5°	7593.6	6500.6	2850.8	520.9	495.4	536.9	575.3	549.7	508.2	473.0	473.0
80°	4627.8	3809.6	1259.2	450.6	437.8	469.8	495.4	466.6	431.5	396.3	386.7
82.5°	1761.0	1470.1	610.4	386.7	383.5	402.7	421.9	393.1	367.5	351.6	303.6
85°	482.6	444.2	418.7	322.8	316.4	313.2	335.6	322.8	287.6	236.5	210.9
87.5°	182.2	207.7	226.9	198.2	210.9	195.0	223.7	204.5	182.2	118.3	105.5
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)