

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: P237078

Luminaire Tested: **ARCH-L-AF72-250-D-U-T3-7030**

Issue Date: 8/23/2018

Test Information

Test Method: LM-79-08
Report Number: P237078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29465)
Test Lab: INNOVATION CENTER-P2
Issue Date: 8/23/2018
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-250-D-U-T3-7030
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 1070mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27312.6 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

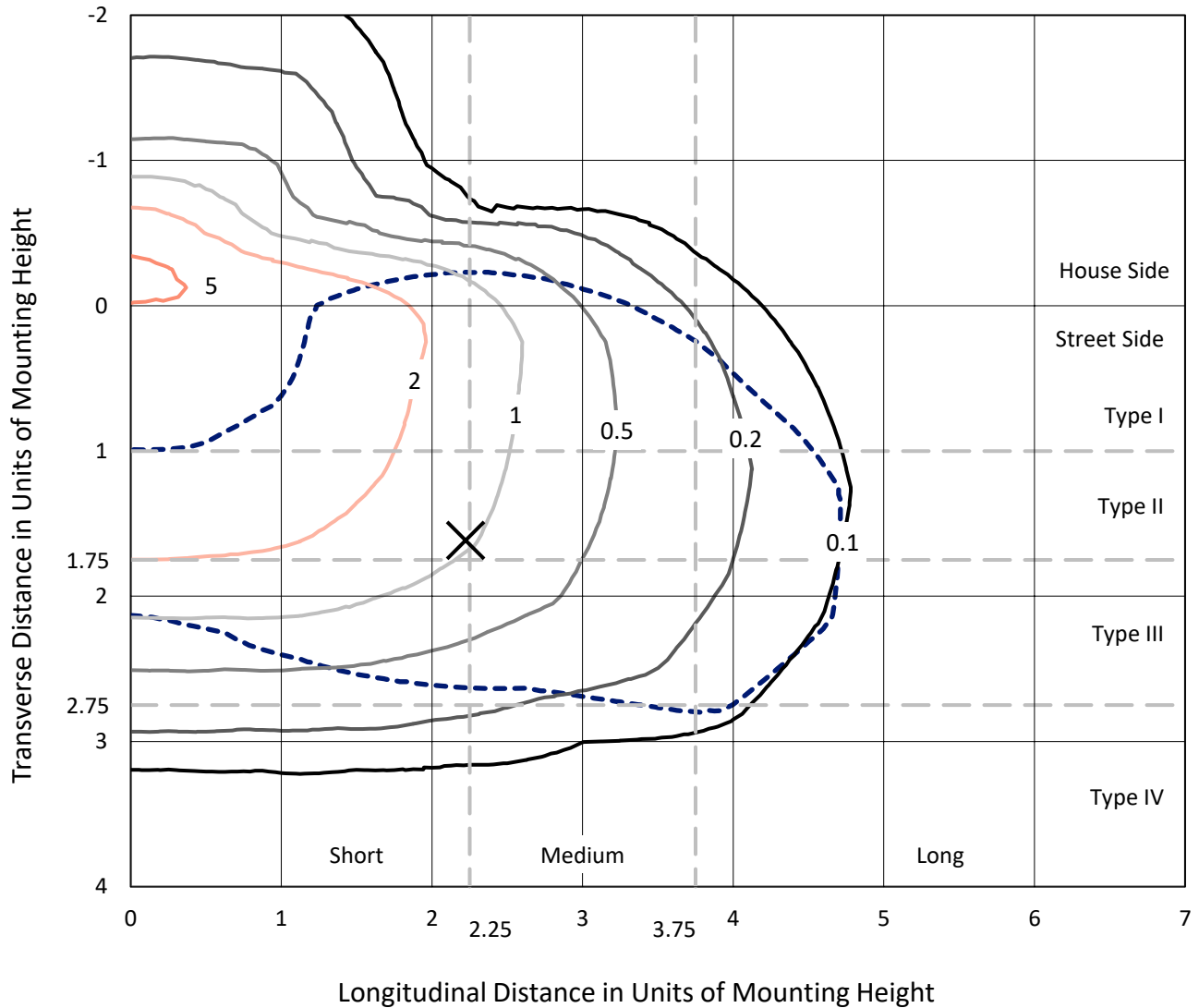
Input Watts (W): 251
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

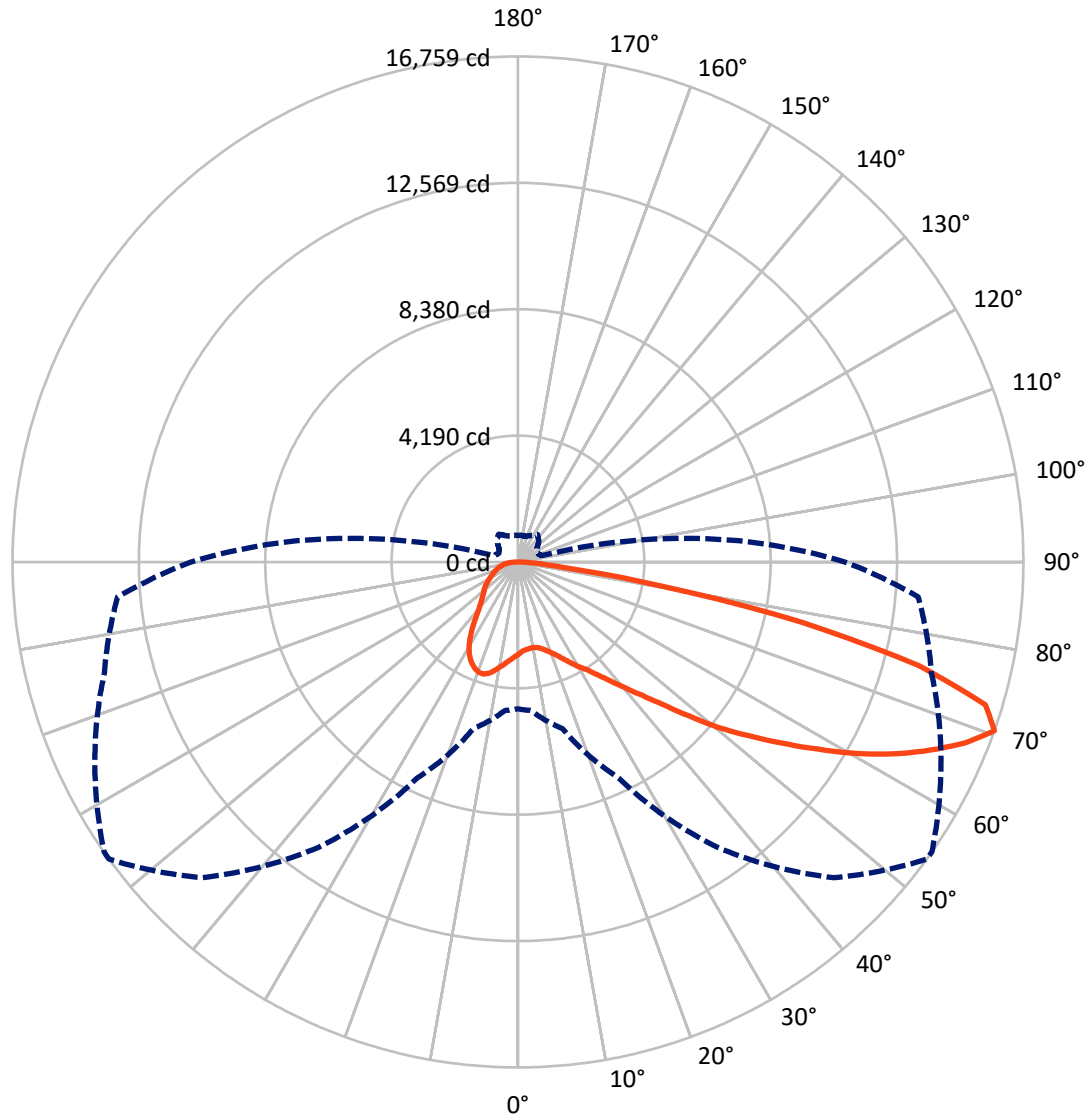
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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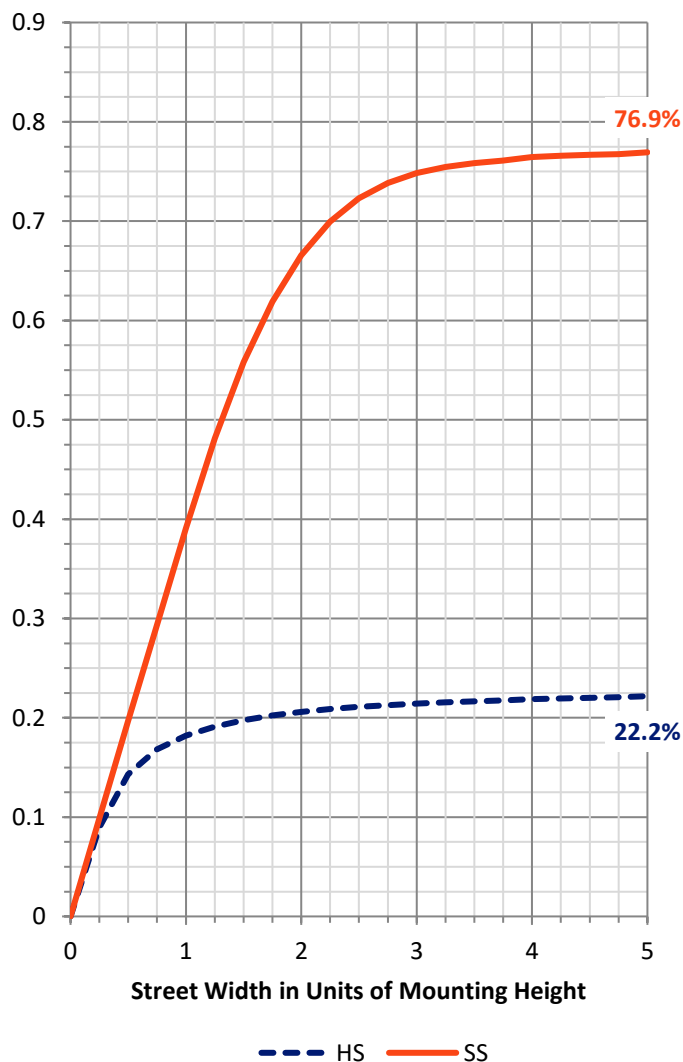
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6194.4	0.0	6194.4
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	21118.2	0.0	21118.2
	% Fixture	77.3	0.0	77.3
Total	Lumens	27312.6	0.0	27312.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.9	1.1
10°-20°	958.2	3.5
20°-30°	1664.7	6.1
30°-40°	2432.8	8.9
40°-50°	3818.2	14.0
50°-60°	5871.5	21.5
60°-70°	7173.5	26.3
70°-80°	4447.6	16.3
80°-90°	646.1	2.4
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°	27312.6	100.0
0°-180°	27312.6	100.0



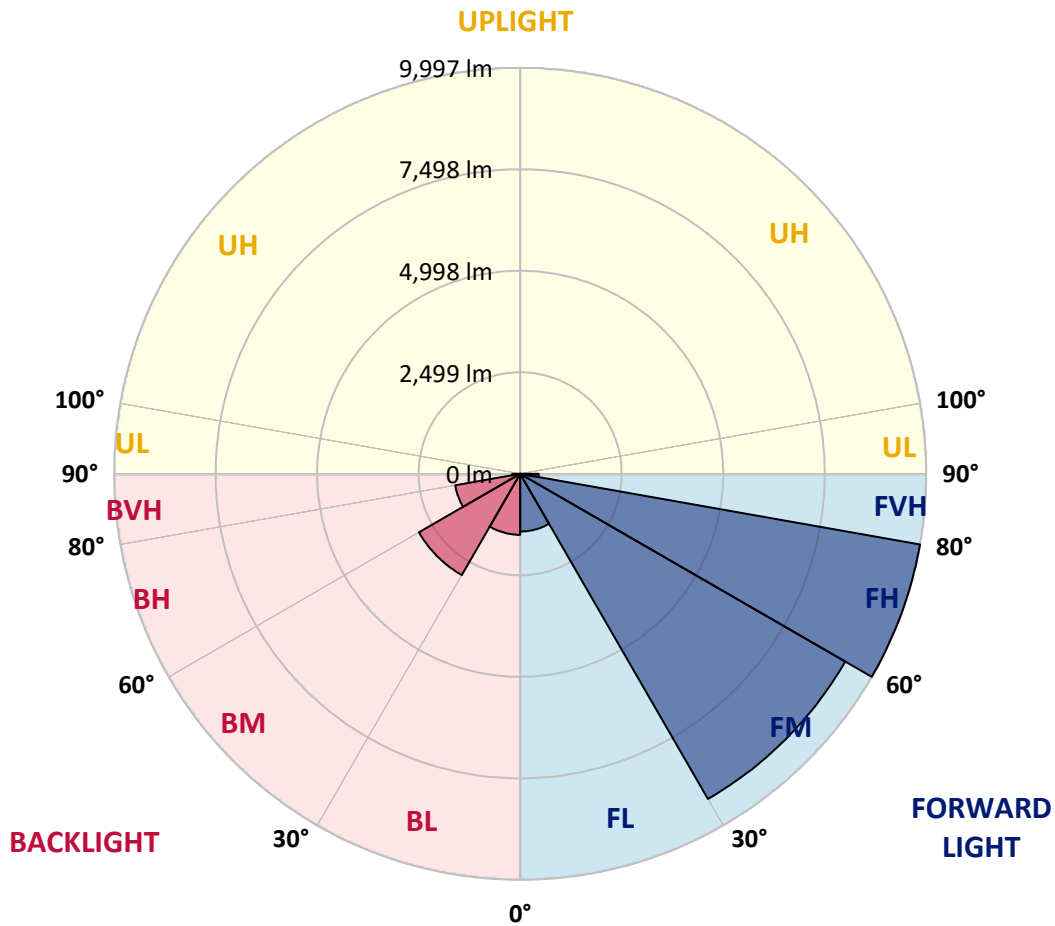
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1421.1	5.2			
FM (30°-60°)	9244.1	33.8			
FH (60°-80°)	9996.8	36.6			G4/12000
FVH (80°-90°)	456.2	1.7			G3/500
BL (0°-30°)	1501.8	5.5	B3/2500		
BM (30°-60°)	2878.4	10.5	B3/5000		
BH (60°-80°)	1624.3	5.9	B3/2500		G3/2500
BVH (80°-90°)	189.9	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8
2.5°	2935.7	2925.8	2925.8	2940.7	2945.7	2960.7	2960.7	2965.8	2980.7	3005.7	3035.8
5°	2845.6	2840.6	2845.6	2865.7	2875.7	2905.8	2915.7	2920.7	2950.6	2990.8	3035.8
7.5°	2755.6	2750.7	2760.7	2790.7	2820.6	2865.7	2890.7	2895.7	2940.7	2995.7	3055.8
10°	2725.7	2720.7	2735.7	2760.7	2790.7	2840.6	2880.7	2885.6	2950.6	3015.8	3100.8
12.5°	2765.7	2760.7	2775.6	2800.7	2830.7	2865.7	2910.6	2915.7	3000.7	3085.7	3175.7
15°	2865.7	2865.7	2870.7	2885.6	2915.7	2945.7	2985.7	2990.8	3080.8	3180.7	3270.7
17.5°	3020.7	3010.7	3010.7	3005.7	3025.7	3040.6	3090.7	3095.8	3190.8	3280.8	3370.7
20°	3210.8	3205.7	3185.8	3160.8	3155.7	3165.8	3215.7	3220.8	3315.8	3390.9	3475.9
22.5°	3440.8	3445.8	3400.8	3345.8	3320.8	3335.8	3380.8	3385.8	3455.9	3520.9	3595.8
25°	3745.9	3730.8	3665.8	3585.9	3535.8	3535.8	3580.9	3580.9	3645.9	3685.9	3735.9
27.5°	4035.9	4006.0	3945.9	3830.9	3750.9	3765.9	3811.0	3811.0	3870.9	3886.0	3910.9
30°	4351.0	4320.9	4246.1	4100.9	3995.9	3986.0	4041.0	4035.9	4116.1	4111.0	4091.0
32.5°	4736.2	4721.1	4596.1	4411.1	4271.1	4236.0	4286.0	4291.0	4341.1	4326.0	4261.0
35°	5276.2	5271.2	5156.3	4831.1	4646.1	4581.1	4611.1	4611.1	4646.1	4606.2	4496.1
37.5°	5956.4	5966.4	5866.4	5386.3	5126.2	5016.2	5021.2	5016.2	5026.3	4981.2	4866.2
40°	6636.6	6661.6	6656.6	6076.5	5746.4	5556.4	5486.4	5476.3	5501.3	5481.3	5371.3
42.5°	7531.8	7591.8	7451.8	6926.7	6556.5	6236.5	6046.4	6021.5	6076.5	6101.5	5996.4
45°	8462.0	8442.0	8222.0	7841.9	7506.7	7096.7	6736.6	6696.6	6736.6	6811.7	6701.6
47.5°	8947.1	8932.2	8877.1	8687.1	8637.1	8166.9	7621.8	7586.9	7511.8	7616.8	7486.8
50°	9747.3	9762.4	9537.2	9517.2	9727.4	9467.4	8622.0	8542.0	8407.1	8492.0	8382.1
52.5°	10327.5	10262.5	10122.5	10297.4	10952.5	10812.7	9562.3	9527.3	9402.3	9382.2	9332.3
55°	10562.5	10562.5	10587.6	10992.7	11927.9	11742.8	10582.6	10617.6	10447.5	10307.5	10372.5
57.5°	10632.6	10662.5	10877.7	11547.7	13073.1	12468.0	11707.7	11757.8	11512.7	11232.7	11437.7
60°	10287.5	10377.5	10892.6	11862.9	13718.3	13238.2	12893.1	12908.1	12553.1	12142.8	12503.0
62.5°	9402.3	9512.3	10432.5	11992.9	13613.2	14028.4	14013.4	14048.3	13563.2	13053.1	13503.3
65°	8317.1	8427.0	9407.2	11627.8	13533.3	14593.5	15038.6	15133.6	14508.4	13823.3	14128.5
67.5°	6721.6	6866.6	7796.8	10397.4	13143.2	15058.6	15998.9	16098.8	15238.6	14223.4	14073.3
70°	4871.3	4941.1	5721.4	7901.8	11552.7	14803.5	16759.1	16754.1	15478.8	14193.5	13323.2
72.5°	2345.6	2400.5	3075.7	4906.2	8261.9	12562.9	16208.8	16303.8	15148.6	13758.3	11607.8
75°	965.2	1020.3	1245.3	2070.5	4336.1	8301.9	13738.3	13963.4	13758.3	12347.9	9082.1
77.5°	600.2	620.1	730.2	1070.3	1980.5	3876.0	9617.3	9922.4	10902.7	9892.4	5996.4
80°	450.1	465.1	545.1	750.2	1250.3	1430.3	4776.2	5161.2	6606.6	5676.3	2715.6
82.5°	375.1	380.1	435.1	545.1	850.2	820.2	1530.4	1705.4	3080.8	2165.5	935.3
85°	350.0	360.1	390.0	390.0	540.2	515.1	635.2	665.2	895.2	740.2	325.0
87.5°	180.1	170.0	345.0	305.1	280.0	250.1	270.1	290.1	335.1	355.1	145.0
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°	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8	3055.8
2.5°	3045.7	3060.7	3085.7	3110.7	3140.7	3175.7	3195.8	3220.8	3240.7	3230.8	3225.8
5°	3060.7	3085.7	3140.7	3190.8	3250.8	3320.8	3365.8	3415.8	3455.9	3465.8	3450.9
7.5°	3085.7	3130.8	3205.7	3295.8	3375.8	3465.8	3535.8	3605.9	3656.0	3665.8	3665.8
10°	3145.8	3195.8	3295.8	3415.8	3510.8	3605.9	3685.9	3740.9	3786.0	3805.9	3805.9
12.5°	3230.8	3290.8	3410.8	3555.9	3660.8	3750.9	3795.8	3820.9	3840.9	3860.9	3865.9
15°	3330.8	3395.8	3540.9	3695.9	3805.9	3851.0	3851.0	3845.9	3845.9	3856.0	3865.9
17.5°	3430.8	3500.8	3650.9	3815.9	3886.0	3860.9	3825.9	3811.0	3800.9	3795.8	3811.0
20°	3535.8	3605.9	3755.9	3910.9	3890.9	3786.0	3735.9	3700.9	3670.9	3656.0	3675.9
22.5°	3650.9	3715.9	3870.9	3976.0	3825.9	3665.8	3570.8	3515.9	3465.8	3435.8	3455.9
25°	3786.0	3851.0	4001.0	3995.9	3710.9	3485.8	3335.8	3245.8	3190.8	3160.8	3160.8
27.5°	3945.9	4001.0	4146.0	3945.9	3550.8	3245.8	3025.7	2940.7	2925.8	2900.8	2900.8
30°	4111.0	4156.0	4281.0	3830.9	3330.8	2930.7	2690.6	2650.6	2655.6	2630.6	2635.7
32.5°	4281.0	4326.0	4361.1	3660.8	3045.7	2575.6	2415.6	2385.5	2380.5	2360.5	2340.6
35°	4521.0	4586.0	4371.0	3430.8	2700.7	2280.6	2165.5	2135.5	2105.5	2035.5	2035.5
37.5°	4886.2	4956.2	4346.0	3145.8	2345.6	2050.5	1945.5	1905.5	1855.4	1785.4	1760.3
40°	5386.3	5386.3	4291.0	2825.7	2060.5	1865.5	1765.4	1715.4	1660.4	1590.4	1575.4
42.5°	5976.5	5836.4	4206.1	2500.6	1850.5	1740.4	1650.4	1595.4	1530.4	1450.3	1440.4
45°	6666.6	6286.6	4086.0	2210.6	1695.3	1665.4	1610.4	1515.3	1405.3	1320.3	1305.3
47.5°	7336.8	6691.6	3970.9	2005.5	1565.3	1635.4	1590.4	1430.3	1280.3	1160.3	1145.2
50°	8072.0	7051.7	3835.9	1835.4	1465.3	1615.4	1565.3	1305.3	1140.2	1055.2	1045.3
52.5°	8807.1	7416.7	3690.9	1655.4	1380.4	1575.4	1505.4	1215.3	1135.3	1020.3	1005.3
55°	9582.2	7841.9	3520.9	1455.4	1280.3	1495.3	1425.3	1210.3	1170.2	1020.3	985.2
57.5°	10337.4	8312.0	3245.8	1260.3	1170.2	1375.3	1395.4	1180.3	1095.3	1010.2	970.2
60°	11172.7	8812.1	2790.7	1095.3	1075.2	1275.3	1355.4	1115.3	1010.2	980.3	960.3
62.5°	11842.8	9262.2	2180.5	980.3	995.3	1195.3	1305.3	1075.2	975.2	950.2	945.2
65°	12132.9	9272.2	1565.3	880.2	915.3	1120.2	1255.3	1040.2	945.2	935.3	930.3
67.5°	11827.9	8762.0	1100.2	785.1	830.2	1050.2	1190.3	1005.3	915.3	920.2	910.2
70°	10842.6	7686.8	805.2	695.2	750.2	975.2	1120.2	960.3	880.2	890.3	875.1
72.5°	9072.2	5991.4	645.1	620.1	685.2	895.2	1050.2	910.2	825.2	830.2	800.3
75°	6701.6	3970.9	540.2	555.1	610.1	820.2	960.3	845.2	765.2	745.1	725.2
77.5°	3986.0	2040.5	445.1	485.1	545.1	730.2	860.2	765.2	700.2	665.2	650.2
80°	1645.5	825.2	365.0	410.0	475.1	650.2	760.2	670.2	625.2	590.1	570.2
82.5°	655.1	405.2	290.1	335.1	400.1	565.1	665.2	590.1	545.1	520.1	465.1
85°	250.1	200.1	195.0	235.0	300.0	435.1	550.1	495.2	460.1	395.1	380.1
87.5°	100.0	90.0	90.0	115.0	170.0	275.2	395.1	345.0	360.1	285.0	290.1
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)