

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: P400034

Luminaire Tested: **ARCH-L-PA3-220-827-U-T3**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P400034
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-220-827-U-T3
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 945mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22755 lumens
Efficiency: N/A
Efficacy: 102.5 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

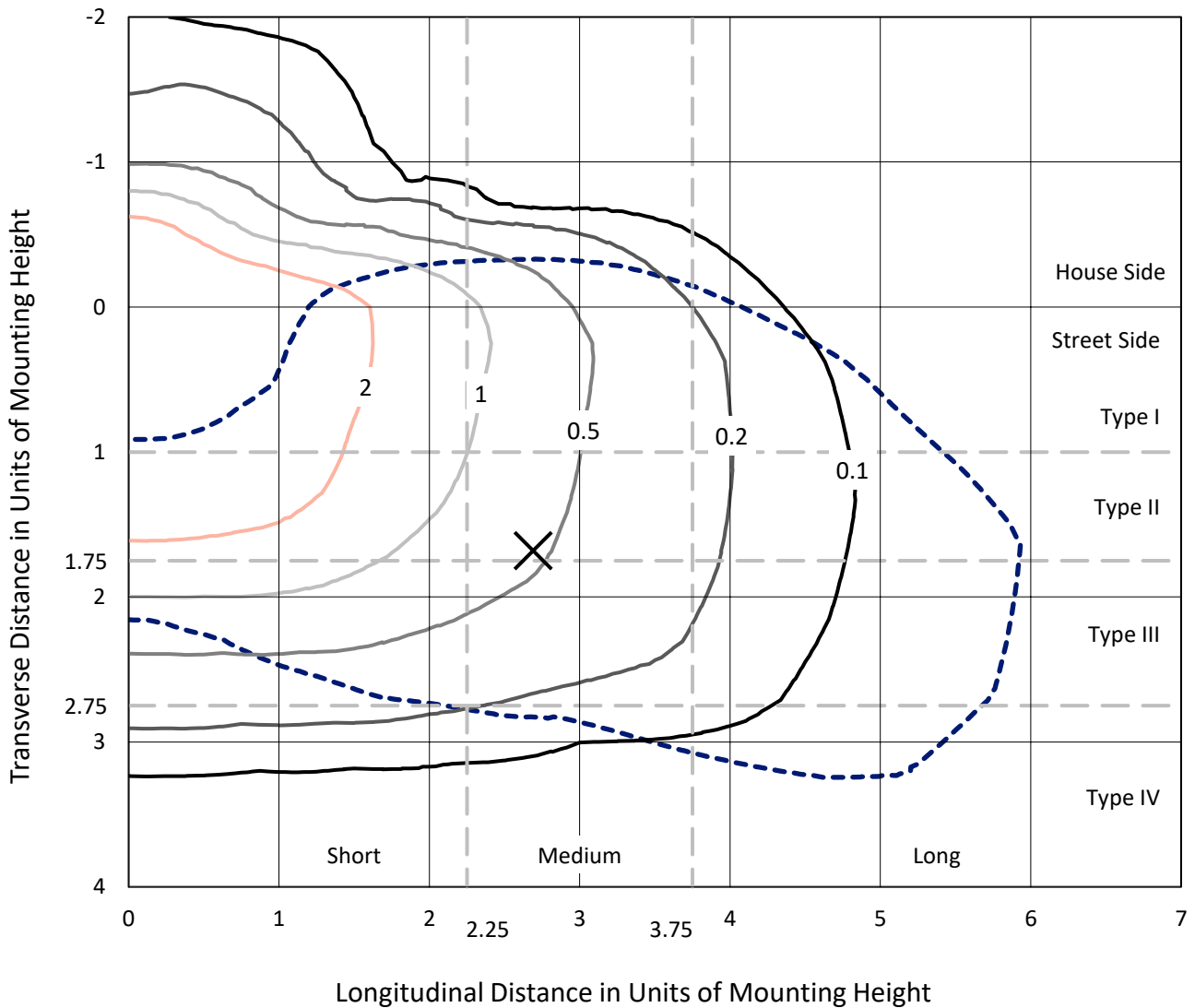
Input Watts (W): 222
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

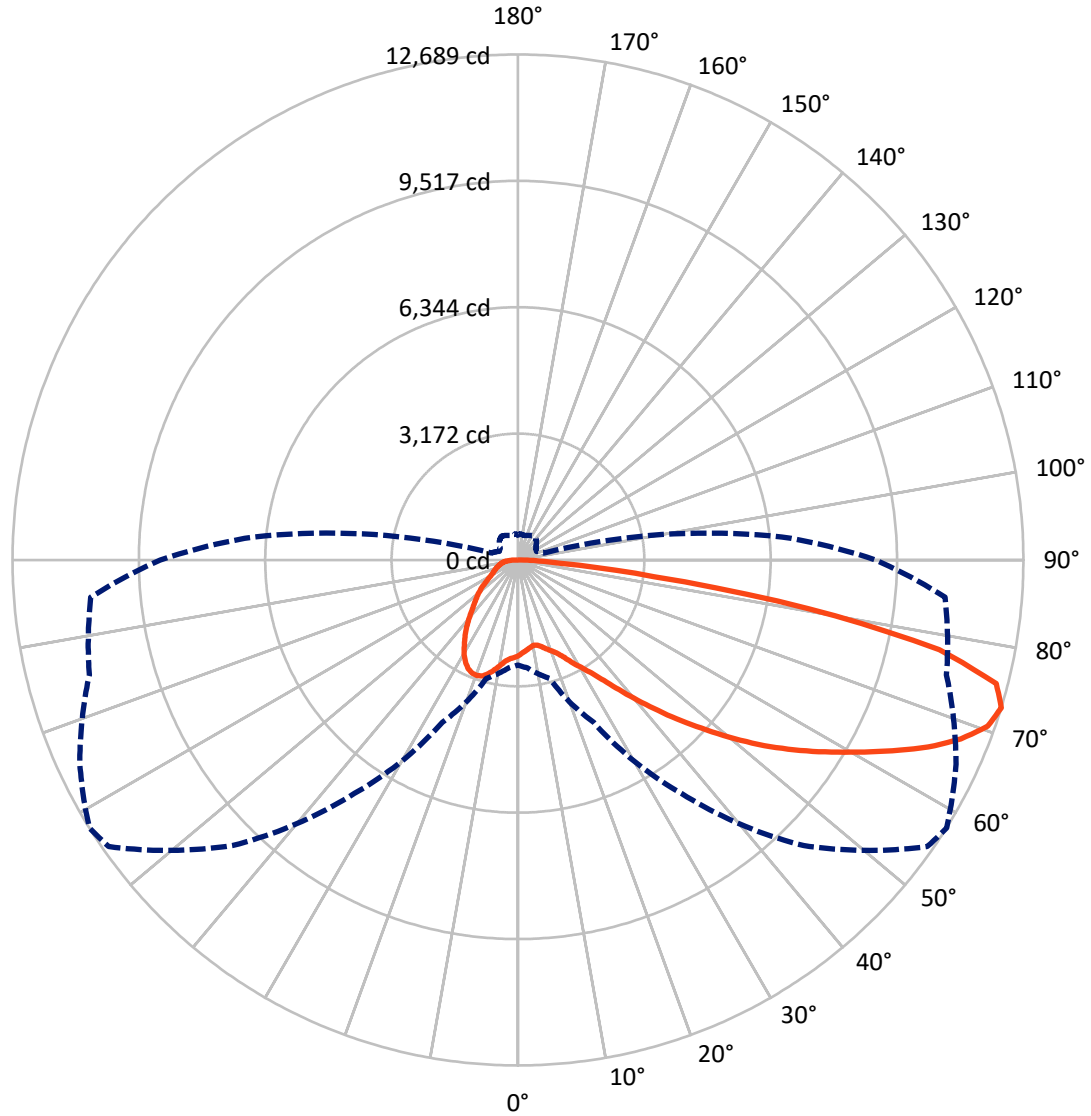
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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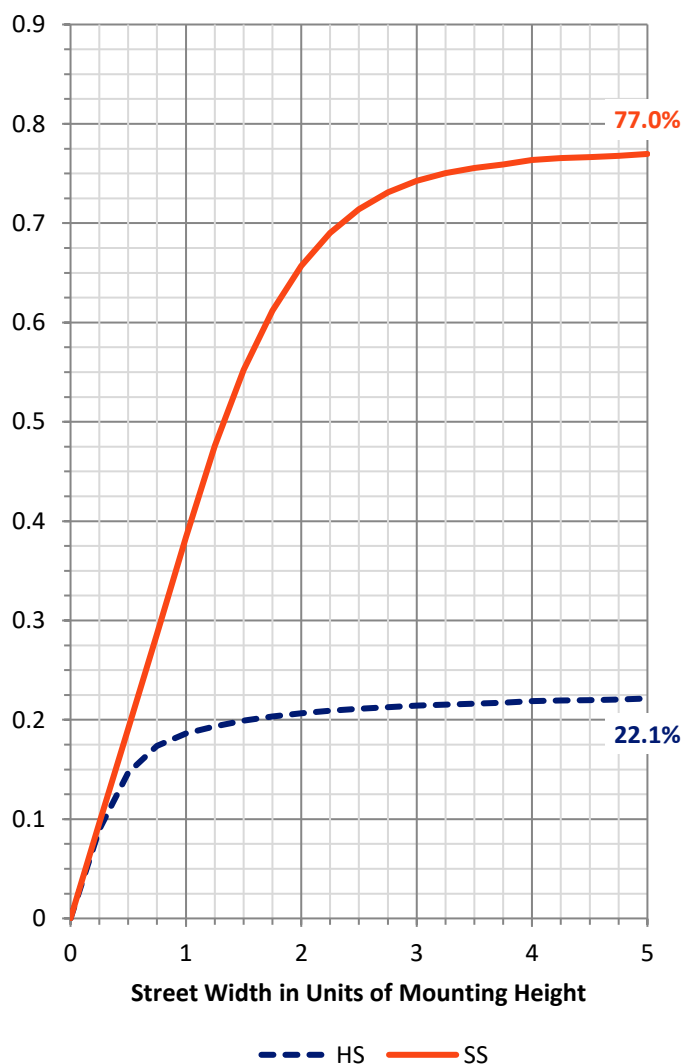
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5160.6	0.0	5160.6
	% Fixture	22.7	0.0	22.7
Street Side	Lumens	17594.4	0.0	17594.4
	% Fixture	77.3	0.0	77.3
Total	Lumens	22755.0	0.0	22755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.2	1.0
10°-20°	734.3	3.2
20°-30°	1315.3	5.8
30°-40°	1978.6	8.7
40°-50°	3204.1	14.1
50°-60°	4823.2	21.2
60°-70°	5676.3	24.9
70°-80°	4025.0	17.7
80°-90°	767.0	3.4
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°	22755.0	100.0
0°-180°	22755.0	100.0

Coefficient of Utilization



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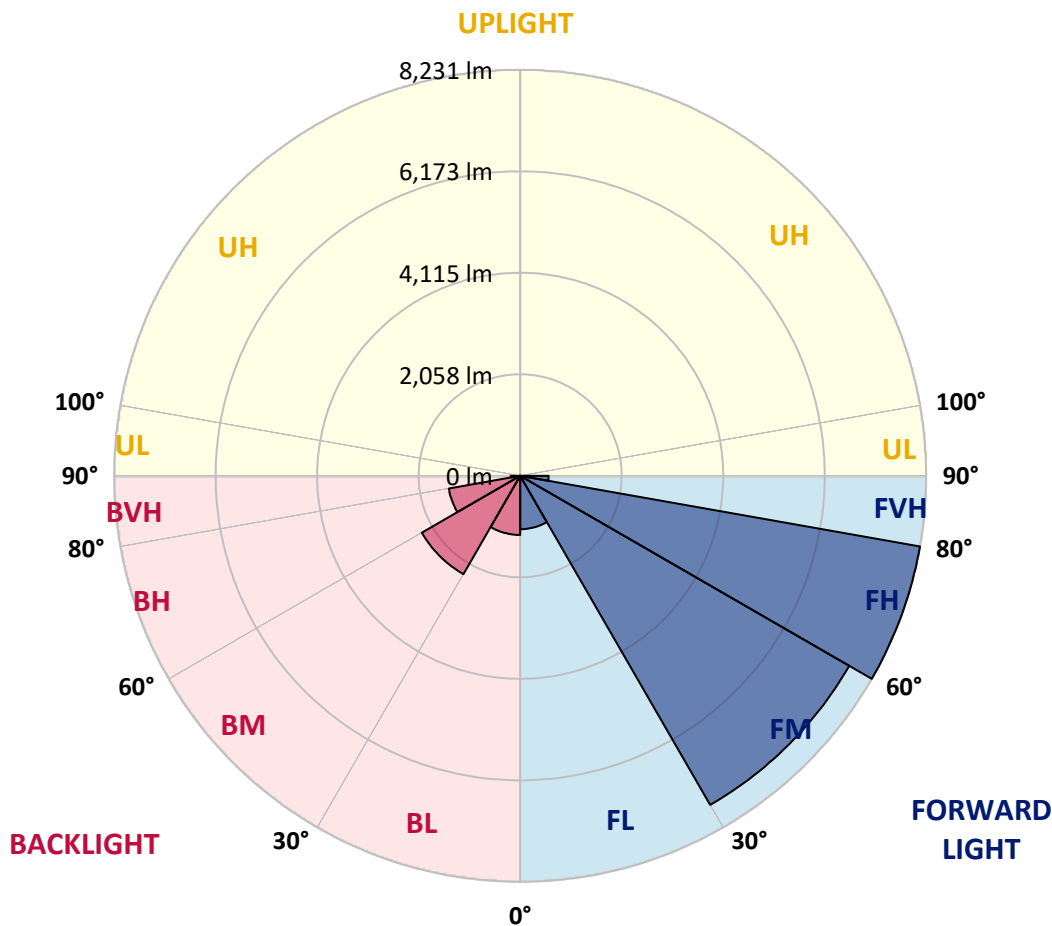
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1082.1	4.8			
FM (30°-60°)	7703.2	33.9			
FH (60°-80°)	8230.6	36.2			G4/12000
FVH (80°-90°)	578.5	2.5			G4/750
BL (0°-30°)	1198.7	5.3	B3/2500		
BM (30°-60°)	2302.6	10.1	B2/2500		
BH (60°-80°)	1470.8	6.5	B3/2500		G3/2500
BVH (80°-90°)	188.4	0.8			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2
2.5°	2310.0	2298.0	2301.0	2301.0	2313.1	2319.1	2322.1	2331.1	2337.1	2352.1	2373.1
5°	2201.9	2192.9	2195.9	2198.9	2219.9	2241.0	2259.0	2271.0	2289.0	2313.1	2343.1
7.5°	2123.8	2117.8	2120.8	2126.8	2144.8	2168.9	2198.9	2216.9	2244.0	2289.0	2340.1
10°	2066.7	2066.7	2069.7	2081.7	2099.8	2129.8	2153.8	2174.9	2228.9	2310.0	2388.2
12.5°	2021.7	2021.7	2030.7	2054.7	2084.8	2114.8	2171.9	2195.9	2268.0	2379.1	2472.3
15°	2018.7	2021.7	2024.7	2045.7	2078.7	2144.8	2228.9	2265.0	2352.1	2484.3	2592.4
17.5°	2066.7	2069.7	2057.7	2063.7	2102.8	2195.9	2307.0	2349.1	2460.2	2604.4	2715.6
20°	2213.9	2213.9	2177.9	2144.8	2171.9	2274.0	2400.2	2442.2	2565.4	2724.6	2835.7
22.5°	2514.3	2529.3	2445.2	2373.1	2331.1	2388.2	2502.3	2547.4	2685.5	2856.8	2967.9
25°	2877.8	2892.8	2778.7	2676.5	2598.4	2589.4	2664.5	2712.6	2826.7	3004.0	3097.1
27.5°	3229.3	3202.2	3097.1	3001.0	2901.8	2820.7	2877.8	2919.9	3052.0	3187.2	3244.3
30°	3505.6	3484.6	3382.5	3313.4	3220.3	3115.1	3082.1	3127.1	3235.3	3361.4	3391.5
32.5°	3812.0	3797.0	3694.9	3604.8	3526.7	3427.5	3355.4	3376.5	3436.5	3526.7	3544.7
35°	4202.5	4235.6	4127.4	3944.2	3857.1	3761.0	3709.9	3715.9	3761.0	3818.0	3788.0
37.5°	4614.1	4653.1	4659.2	4370.8	4253.6	4166.5	4112.4	4133.5	4187.5	4226.6	4133.5
40°	5377.1	5338.0	5181.8	4968.6	4788.3	4704.2	4629.1	4626.1	4665.2	4734.3	4566.0
42.5°	6389.4	6353.4	6038.0	5761.6	5476.2	5380.1	5232.9	5169.8	5187.8	5275.0	5040.7
45°	7359.7	7344.7	7092.4	6770.9	6428.5	6242.2	5905.8	5752.6	5737.6	5806.7	5527.3
47.5°	8221.9	8155.8	7972.5	7723.2	7687.1	7200.5	6581.7	6374.4	6302.3	6341.4	6029.0
50°	9144.1	8918.8	8666.4	8513.2	8774.6	8321.0	7263.6	7047.3	6870.1	6897.1	6572.7
52.5°	9633.7	9255.2	9090.0	9135.1	9486.5	9312.3	8005.6	7741.2	7455.8	7494.9	7113.4
55°	9213.2	9210.2	9282.3	9561.6	10051.3	9850.0	8711.5	8414.1	8101.7	8110.7	7735.2
57.5°	8636.4	8753.6	9126.0	9741.9	10751.2	10414.7	9405.4	9090.0	8804.6	8759.6	8441.1
60°	8110.7	8239.9	8780.6	9711.8	10994.5	10931.4	10066.3	9789.9	9558.6	9426.4	9183.1
62.5°	7311.7	7407.8	8173.8	9519.6	10790.2	11303.9	10736.2	10546.9	10372.7	10099.3	9982.2
65°	6371.4	6404.5	7212.5	8885.7	10534.9	11448.1	11403.1	11318.9	11150.7	10748.2	10772.2
67.5°	5353.1	5419.2	6128.1	7873.4	9976.2	11382.0	11919.7	11988.8	11790.6	11186.8	11276.9
70°	4268.6	4349.7	4887.5	6473.5	9026.9	11096.7	12397.4	12508.5	12127.0	11331.0	11370.0
72.5°	2640.5	2718.6	3079.1	4496.9	7155.4	10138.4	12544.6	12688.8	12136.0	11138.7	10763.2
75°	913.2	922.2	1204.6	2156.8	4247.6	7654.1	12063.9	12403.4	11754.5	10438.8	9366.4
77.5°	417.6	432.6	534.7	889.2	1883.5	4130.5	9961.2	10811.3	10595.0	9345.3	7209.5
80°	288.4	294.4	369.5	531.7	1087.4	1453.9	6287.3	7395.8	7774.3	7236.6	4620.1
82.5°	216.3	222.3	285.4	360.5	784.0	705.9	2394.2	3436.5	4271.6	4193.5	1931.6
85°	207.3	204.3	222.3	240.3	522.7	420.6	775.0	1063.4	1667.2	1426.9	486.6
87.5°	90.1	99.1	228.3	135.2	273.4	195.3	336.4	393.5	507.7	441.6	174.2
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°	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2	2400.2
2.5°	2382.1	2388.2	2406.2	2433.2	2448.2	2478.3	2499.3	2511.3	2520.3	2523.3	2523.3
5°	2361.1	2373.1	2412.2	2457.2	2499.3	2562.4	2619.5	2652.5	2676.5	2685.5	2688.5
7.5°	2367.1	2397.2	2454.2	2520.3	2574.4	2655.5	2724.6	2790.7	2844.8	2865.8	2865.8
10°	2424.2	2466.3	2544.4	2631.5	2700.6	2784.7	2856.8	2913.8	2976.9	3013.0	3019.0
12.5°	2511.3	2562.4	2664.5	2760.6	2838.7	2904.8	2970.9	3013.0	3043.0	3070.1	3076.1
15°	2634.5	2697.6	2799.7	2898.8	2967.9	3010.0	3028.0	3028.0	3025.0	3028.0	3034.0
17.5°	2757.6	2817.7	2919.9	3019.0	3052.0	3028.0	3007.0	3001.0	2998.0	2992.0	2995.0
20°	2877.8	2934.9	3022.0	3097.1	3070.1	2985.9	2958.9	2955.9	2946.9	2940.9	2934.9
22.5°	2998.0	3040.0	3112.1	3139.1	3031.0	2910.8	2877.8	2859.8	2847.8	2832.7	2817.7
25°	3136.1	3148.2	3202.2	3160.2	2934.9	2772.7	2724.6	2697.6	2685.5	2670.5	2658.5
27.5°	3265.3	3265.3	3274.3	3127.1	2793.7	2589.4	2517.3	2469.3	2466.3	2463.3	2460.2
30°	3382.5	3367.4	3337.4	3028.0	2610.4	2364.1	2256.0	2207.9	2225.9	2241.0	2244.0
32.5°	3520.6	3490.6	3406.5	2892.8	2391.2	2111.8	1979.6	1958.6	1979.6	1997.6	1985.6
35°	3736.9	3682.9	3478.6	2736.6	2180.9	1880.5	1754.3	1724.3	1718.3	1715.3	1691.2
37.5°	4046.3	3953.2	3535.7	2568.4	1973.6	1676.2	1583.1	1520.0	1462.9	1402.9	1393.8
40°	4424.8	4265.6	3574.7	2376.1	1754.3	1505.0	1405.9	1324.7	1228.6	1123.5	1111.5
42.5°	4839.4	4602.1	3592.7	2162.9	1562.1	1363.8	1240.6	1138.5	1030.4	949.3	934.2
45°	5287.0	4965.6	3577.7	1958.6	1405.9	1243.6	1105.5	994.3	907.2	850.1	838.1
47.5°	5722.6	5383.1	3535.7	1796.4	1285.7	1141.5	1000.3	898.2	832.1	769.0	754.0
50°	6281.3	5782.6	3484.6	1670.2	1153.5	1039.4	934.2	826.1	751.0	721.0	714.9
52.5°	6900.1	6182.2	3424.5	1511.0	1024.4	958.3	892.2	796.1	772.0	714.9	705.9
55°	7570.0	6656.8	3412.5	1309.7	910.2	901.2	850.1	823.1	829.1	714.9	699.9
57.5°	8275.9	7164.5	3439.5	1108.5	817.1	850.1	868.1	847.1	838.1	730.0	699.9
60°	9011.9	7654.1	3358.4	922.2	745.0	808.1	889.2	835.1	769.0	724.0	702.9
62.5°	9726.8	8065.6	3007.0	790.0	690.9	796.1	877.2	790.0	714.9	714.9	705.9
65°	10246.5	8248.9	2352.1	693.9	654.9	781.0	856.1	760.0	699.9	721.0	708.9
67.5°	10306.6	8059.6	1580.1	618.8	624.8	754.0	808.1	733.0	684.9	739.0	721.0
70°	9937.1	7567.0	967.3	561.7	585.8	705.9	766.0	705.9	663.9	724.0	696.9
72.5°	8978.9	6647.8	681.9	513.7	543.7	660.9	727.0	681.9	633.8	654.9	627.8
75°	7365.7	5151.8	540.7	468.6	501.7	618.8	693.9	645.9	597.8	588.8	570.8
77.5°	5217.9	3301.4	435.6	432.6	456.6	567.7	648.9	603.8	555.7	537.7	525.7
80°	3001.0	1619.1	375.5	390.5	414.5	516.7	594.8	555.7	510.7	483.6	465.6
82.5°	1147.5	564.7	330.4	339.4	366.5	462.6	540.7	507.7	462.6	486.6	408.5
85°	372.5	309.4	270.4	279.4	306.4	384.5	477.6	450.6	399.5	354.5	327.4
87.5°	165.2	168.2	144.2	159.2	192.3	255.3	348.5	330.4	291.4	243.3	234.3
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)